# BIBLIOGRAPHY

Anderson, J., "A Techinque for Measuring Reading Comprehension," English Language Teaching. 25(February, 1972

_____, "English Language Teaching," Language Teaching Abstratcs. 6(April, 1973) London : Cambridge University Press.

Bormuth, J.R. "Cloze Tests as Measurcs of Readability and Comprehension Ability," Dissertation Abstracts, 23(May, 1963).

_____. "Comparable Cloze and Multiple-Choice Comprehension Test Scores," Journal of Reading, 10(February, 1967).

_____. "Cloze Test Readability : Criterion Reference Scores," Journal of Educational Measurement, (5(1968).

Brand, J. "Some Aspects of the Testing and Teaching of English Language in Schools," AIT Bangkok : English Language Center Publication, 1970.

Baron, D. Evaluation Techniques for Classroom Teachers. New York : McGraw-Hill Book Co., 1958.

Brown, J. Objective Tests: Their Construction and Analysis. London : Green and Co., 1966.

Bloomer, R.H. "The Cloze Procedure as a Remedial Reading Exercise," Journal of Developmental Reading, 5(1962).

_____. "Pretesting and the Effectciency of Paragraph Reading," Journal of Reading, 8(1965).

Byrne, D. Intermediat Comprehension Passage. London : Longman Group Limited, 1970.

Crawford, A.N., "The Cloze Procedure as a Measure of the Reading Comprehension of Elementary Level, Mexican-American and Anglo-American Children, Dissertation Abstracts Internation, 31(January, 1971).

Culhane, J.W. "Cloze Procedure and Cpmprehension," The Reading Teacher, 23(February, 1970).

Daugherty, J. "The Effect of the Cloze Procedure and Inter Questions as an Aid to Reading Comprehension," Dissertation Abstracts International, 32(August, 1971).

Davis, F.B. Educational Measurements and Their Interpretation. California : Wodsworth Publishing Co., Inc.,1966.

Etherton, A.R. Objective Tests in English, Advanced Book. Bangkok: Thai Wattana Panich, 1970.

Farr, G. Measurement ane Evaluation of Reading. New York: Hartcourt, Brace & World, Inc., 1970.

Faubion, N.N. "The Effect of Training in the Use of Cloze on the Ability of Fourth Grade Pupils to Gain Information from Written Discourse," Dissertation Abstracts International,32(February, 1972).

Friedman, M. "The Use of the Cloze Procedure for Improving the Reading Comprehension of Foreign Students at the University of Forida," Dissertation Abstracts, 25(1964).

Garrett, H.E. Statistics in Psychology and Education. 5th ed. Toronto: Longmans Canada Ltd., 1964.

Gerberich, J.R. Specimen Objective Test Items. New York : Longmans Green and Co., 1959.

Green, Measurement and Education in Secondary School. (n.d. & n.p.)

Grorland, N.E., Measurement and Education in Teaching. New York: Macmill Co., 1965.

Geyer, J.R. "The Cloze Procedure as a Predictor of Comprehension in Secondary Social Studies Materials," Dissertation Abstracts International. 31(November, 1970).

Guilford, J.P. Fundamental Statistics in Psychology and Education. 4th ed. New York : McGraw-Hill, 1965.

Guscott, C.E. "The Effect of Cloze Procedure Exercises on the Improvement of Reading Achievement and of Reading Comprehension of Selected Sixth-Grade Students," Dissertation Abstracts International. 32(January, 1972).

Hafner. L.E. "Close Procedure," Journal of Reading, 9(1966).

_____. "Relationships of Various Measures of the Cloze," Thirteen Yearbook of the National Reading Conference. Wisconsin:National Reading Conference, Inc., 1963.

_____. "Implication of Cloze," The Philosophical and Social Based of Reading Wisconsin : The National Reading Conference, Inc., 1965.

Harris, D.P. Testing English as a Second Language. New York : McGraw-Hill Book Co., 1969.

Harter, M.A. "The Cloze Procedure as a Measure of the Reading Comprehensibility and Difficulty of Mathematical English," Dissertation Abstracts International, 30(May, 1970).

Kennedy, D.K. "Training with the cloze Procedure, Visually and Auditorially, to Improve the Reading and Listening Comprehension of the Third Grade Underachieving Readers." Dissertation Abstracts International 32(May, 1972).

Kingston, J.A. and Weaver, W.W. "Recent Developments in Readability Appraisal," Journal of Reading, 11(October, 1967).

Kirby, C.L. "Using of Cloze Procedure as a Testing Technique," Reading Diagnosis and Evaluation, 13(1970), 11. 68-77.

Kunnasoot, P. Applied Statistic for Teachers  Bangkok : Thai Wattana Panitch, 1969.

Lado, R. Language Testing.(New York : Longman Green and Co., 1961).

Lauthon, V. "Some Systematic Grammatical deletions and Their Effect on Reading Comprehension," English Journal, 54(1965).

Mason, V. "Report on Cloze Tests Administered to Thai Students," Bulletin of the English Language Center, 2(March, 1972).

McLeod, J. The GAP Reading Comprehension Tests. London : Heinemanne, 1965.

Oller, J.W. "Cloze Tests in Second Language Proficiency and What They Measure," Language Learning, 23(June, 1973).

_____. "Scoring Methods and Difficulties Level for Cloze Tests of Proficiency in English as a Second Language," Modern Language Journal, 56(March, 1972).

_____ and Inal, N. "A Cloze Test of English Prepositions," TESOL Quarterly, 5(December, 1971).

_____ and Conrad, C.A. "The Test Technique and ESL Proficiency," Language Learning, 21(December, 1971).

_____ et al. "Cloze Tests in English, Thai, and Vietnames : Native and Non-native Performance," Language Learning, 22(June,1972).

Palakornkul, A. and Berg, M. English Grammar for Thai Students. Bangkok: Kuruspa Publisher Co., 1970.

Potter, T.C. A Taxonomy of Cloze Research, Part I : Readability and Reading Comprehension. California : Southwest Regional Laboratory for Educational Research and Development, 1968.

Rankin, E.F. "The Cloze Procedure - A Survey of Research," The Philosophical and Sociological Based of Reading. Fourteenthe Yearbook of the National Reading Conference. eds. E.L. Thurston and L.E. Hafner, Wisconsin : The National Reading Conference, Inc., 1965.

_____, and Culhane, J.W. "Comparable Cloze and Multiple-choice Comprehension Test Scores," Journal of Reading, 13(December,1969).

_____. "The Cloze Procedure - Its Validity and Utility," Measurement and Evaluation of Reading. ed. R. Farr. New York : Harcourt, Brace & World, Inc., 1970.

Robinson, R.D. "An Investigation into the Use of the Cloze Procedure with a Group of Functional, Illiterate Adults," Dissertation Abstracts International, 32(January, 1972).

Ruch, G.M. The Objective or New Type Examination. California: Berkley Co., 1929.

Ruddell, R.B. "The Effect of Oral and Written Patterns Language Structure on Reading Comprehension," The Reading Teacher, 18(January, 1965).

Rufener, J.B. "Use of the Cloze Procedure with Thai School Children: An Exploratory Study of Readability and Individual Differences in Reading," Dissertation Abstracts International, 33(December, 1972).

_____. "Use of Cloze Procedure as Measure of Individual's Reading Ability," The Journal of the Faculty of Education, 5-6 (1972)

Rynders, P. "Use of the Cloze Procedure to Develop Comprehension Skill in the Intermediate Grade," Dissertation Abstracts International, 32(April, 1972).

Saiyote, L. and Tuntiruttananun, A., Educational Statistic. Bangkok: Wattana Panitch, 1971.

Satraphat, D. "A Comparative Study of the Relationships between Reading Comprehension, Visual Perception and Piaget's Logical Thinking Styles in Ethic Thai and Chinese First-Fifth Graders; Master's Thesis Bangkok : The College of Education, Prasanmitr, 1972.

Somhom, P. "Use of the Cloze Procedure to Measure Reading Comprehension," Master's Thesis Bangkok : Chulalongkorn University,1973.

Satidthong, N. "A Comparison of Cloze and Multiple-choice Test in English Reading Comprehension," Master's Thesis. Bangkok: Chulalongkorn University, 1973.

Schneyer, J. W. "Use of the Cloze Procedure for Improving Reading Comprehension," Reading Teacher, 19 (1965).

Schwartz, A. et al. Evaluating Student Progress. New York : Longman Green and Co., 1957.

Spolsky, B. et al. Preliminary studies in the Development of Techniques for Testing Second Language Proficiency," Language Learning, 3(August, 1968).

Stephens, R.G. "Use of ClozeProcedure as a Criterian for Evaluating the Applicability of Selected Readability Formulas to Service Reading Materials," Dissertation Abstracts International, 32 (May, 1972).

Swalm, J.E. "Comparison of Oral Reading, Silent Reading, and Listening Comprehension Assessed by Cloze," Dissertation Abstracts International, 32(January, 1972).

Taylor, W.L. "Cloze Procedure : A New Tool for Measuring Readability," Journalism Quarterly, 30(1953).

_____. "Recent Developments in the Use of Cloze Procedure," Journalism Quarterly, 33(1956).

Weaver, W.W. "An Examination of Some Differences in Oral and Written Language Using the Cloze Procedure." Dissertation Abstracts, 22(1961).

_____. "Theorictical Aspects of the Cloze Procedure" The Philosophical and Sociological Bases of Reading. Fourteenth Yearbook of the National Reading Conference. eds. E.L. Thurston and L.E. Hafner. Wisconsin: The National Reading Conference, Inc., 1965.

Weintraub, S., "The Cloze Procedure," The Reading Teacher, 21 (March, 1968).

Wiechelman, D.S. "A Comparison of Cloze Procedure Scores and Informal Reading Inventory Results for Estimating Functional Reading for Students at Eighth Grade Level," Dissertation Abstracts International, 32(January, 1972).

APPENDIX A

(TESTS)

(Multiple choice Structural Test Form A.)

ข้อทดสอบโครงสร้างภาษาอังกฤษแบบเลือกตอบ

สำหรับชั้นประกาศนียบัตรวิชาการศึกษาปีที่ 2   ปีการศึกษา พ.ศ. 2516     ชุดที่.........

"ห้าม ขีด ฆ่า ขูด ลบ หรือทำเครื่องหมายใด ๆ ลงในแบบทดสอบนี้"

<u>คำแนะนำ</u>

1. จงเลือกคำตอบที่ถูกที่สุดจากแต่ละข้อ แล้วเขียนเครื่องหมาย  X  ลงในช่อง
( a ) ( b ) ( c ) ( d )  ใน<u>กระดาษคำตอบของท่าน</u>

<u>ตัวอย่างที่ 1</u>

         I _____ go to Bangkok tomorrow.
            a. is
            b. was
            c. will
            d. have

คำตอบที่ถูกที่สุดคือ c   ดังนั้นท่านก็ทำเครื่องหมาย X ใน
     ( a ) ( b ) ( X ) ( d )

2. ถ้าท่านเปลี่ยนใจและต้องการเปลี่ยนคำตอบ โปรด<u>ลบเครื่องหมาย</u> หรือ <u>ขีดฆ่า</u>
คำตอบเก่า ดังตัวอย่างที่ 2 เสียก่อน ก่อนที่ท่านจะเลือกคำตอบใหม่

<u>ตัวอย่างที่ 2</u>

         I _____ go to Bangkok tomorrow.
            a. is
            b. was
            c. will
            d. have

สมมุติว่าครั้งแรกท่านเลือกคำตอบข้อ c   ดังตัวอย่างที่ 1 แล้วท่านเปลี่ยนใจ เลือก
ข้อ d ในภายหลัง ก็ให้<u>ลบ</u> X ให้สะอาดเสียก่อน หรือ <u>ขีดฆ่า</u> X ดังนี้
     ( a ) ( b ) ( ✖ ) ( X )

3. จงทำข้อสอบทุกข้อด้วยความรอบคอบที่สุด และพยายามทำให้ได้มากข้อที่สุด หากข้อใดที่ทำไม่ได้ ควรเว้นไว้ก่อน เมื่อมีเวลาค่อยกลับมาทำภายหลัง ถ้าท่านมีปัญหาโปรดชูมือเพื่อเรียกถามอาจารย์ผู้ควบคุม และไม่ควรปรึกษาเพื่อน เพราะเขาทำข้อสอบคนละชุดกับท่าน

4. ถ้าท่านไม่รู้คำตอบข้อใด จงใช้ความสามารถในการเดาคำตอบที่ท่านคิดว่าน่าจะถูกต้องที่สุด จะไม่มีคะแนนติดลบในการเดาครั้งนี้

5. ข้อทดสอบมีทั้งหมด 80 ข้อ และมีอยู่ 8 หน้า โปรดตรวจดูว่าข้อสอบของท่านมีครบหรือไม่ และอย่าลืมกรอกข้อความในกระดาษคำตอบของท่านให้เรียบร้อย.

1. "What's Mr. Johnson?"
   "He's _____."
   - a. very gentleman
   - b. the American
   - c. a language teacher
   - d. Jane's brother

2. "My average grade is 3.00."
   "Mine is _____ 2.00."
   - a. less
   - b. below
   - c. more
   - d. higher

3. "Please give me 5 baht, John."
   "I'm very sorry. I _____."
   - a. had none
   - b. have any
   - c. have some
   - d. don't have any

4. "Is this your car?"
   "No. It's _____."
   - a. Jacks'
   - b. Jack's
   - c. of Jack
   - d. car of Jack's

5. "Was he killed by a gun?"
   "No, by _____."
   - a. a hunting long knife
   - b. a long hunting knife
   - c. a knife with hunting long
   - d. a knife with long hunting

6. "I have many oranges. Do you want some?"
   "Yes, I _____."
   - a. do
   - b. want
   - c. want a little
   - d. want many

7. "Don't interrupt me."
   "Okay, I'll do it my way; you do it _____."
   - a. your
   - b. yours
   - c. your ways
   - d. your own

8. "Do they grow a lot of rice in the Sough?"
   "No, they grow _____."
   - a. little
   - b. a few
   - c. not a lot
   - d. not many

9. "What time is it, John?"
   "It's _____."
   a. eight twenty
   b. forty to nine
   c. eight after twenty
   d. forty before nine

10. "Aren't you cold?"
    "Not very. I _____ the weather."
    a. used to
    b. am using to
    c. am used to
    d. have used to

11. "Mary is short, I think."
    "But John is shorter than _____."
    a. hers
    b. she
    c. she was
    d. her is

12. "John always studies hard."
    "And _____."
    a. I do, so
    b. I do, too
    c. so I do also
    d. so I do either

13. "Where's your friend?"
    "The man _____ is my friend."
    a. stands there
    b. standing there
    c. who standing there
    d. who had stood there

14. "Do you want anything?"
    "Please _____ to buy me a pen."
    a. remember
    b. to remember
    c. remembering
    d. being remembered

15. "Shall we leave now?"
    "Okay, _____"
    a. shan't we
    b. let's go
    c. let leave
    d. shall leave

16. "Which is harder, French or English?"
    "Well, I think French is as _____ as English."
    a. difficult
    b. difficulty
    c. more difficult
    d. the most difficult

17. "When did you see her?"
    "When she _____ TV last night."
      a. watched
      b. would watch
      c. was watching
      d. has been watching

18. "One person left the woom 2 minutes ago."
    "_____ is leaving."
      a. The another
      b. Other person
      c. Another person
      d. One of other

19. "How is Jane now?"
    "Fine. She is _____."
      a. getting over her cold
      b. over getting her cold
      c. getting her cold over
      d. getting her over cold

20. "It rains every day. The roads are bad."
    "Yes, and the traffic is _____ of all."
      a. worse
      b. badder
      c. the worst
      d. the baddest

21. "How many books do you have?"
    "I've _____."
      a. so many as your
      b. as many as yours
      c. so many books as you
      d. as many books as you

22. "What did you buy?"
    "I bought _____."
      a. two box chalks
      b. two boxes chalk
      c. two boxes of chalk
      d. two boxes of chalks

23. "It's raining."
    "Come _____ my umbrella."
      a. in
      b. at
      c. under
      d. below

24. "How did you solve this problem?"
    "By _____ both numbers together."
      a. add
      b. added
      c. adding
      d. being added

25. "Who bought you that shirt?"
    "I bought it _____:"
           a. myself
           b. of myself
           c. to myself
           d. for myself

26. "John says the Mississippi was the long river in the world."
    "I don't think he _____ right."
           a. is
           b. was
           c. had been
           d. would be

27. "How is the milk?"
    "It tastes _____."
           a. sweet
           b. sweetly
           c. very sweetness
           d. much sweetness

28. "She missed you very much last night."
    "I wish I _____ her."
           a. met
           b. could meet
           c. have met
           d. could have met

29. "Are you going to see him?"
    "If I _____, I'll let you know."
           a. go
           b. will go
           c. would go
           d. had gone

30. "When will they leave?"
    "They _____ very soon."
           a. leave
           b. are leaving
           c. must leave
           d. would leave

31. "What did John do?"
    "He _____ asleep all morning."
           a. lay
           b. lying
           c. lain
           d. laid

32. "My book is black."
    "So, it _____ mine."
           a. differs to
           b. different to
           c. differs from
           d. different from

33. "I want to sell my old car."
    "All right, I'll sell _____."
    a. it to you
    b. it for you
    c. you the car
    d. the car to you

34. "How can I get to your house?"
    "Take a taxi to the Bangkok Bank, and _____ there. I'll wait
    fot you."
    a. get it out
    b. get out it
    c. get off it
    d. get out

35. "It rained very hard last night."
    "After it _____ for so many days?"
    a. is dry
    b. was dry
    c. had been dry
    d. was been dry

36. "Jack killed a big snake."
    "I don't know how _____ it."
    a. he did
    b. did he
    c. did he do
    d. he did to

37. "Was the test difficulty?"
    "Yes, it was so difficult that I _____ failed."
    a. most
    b. almost
    c. mostly
    d. the most

38. "I don't want that."
    "Why not? It's _____ good beef."
    a. so
    b. too
    c. such
    d. such a

39. "How much sugar do you want?"
    "I need _____ you have."
    a. as half much as
    b. as much half as
    c. half as much as
    d. as much as half

40. "It rained a lot yesterday morning. How did you go to school."
    "I _____ take a taxi."
    a. must
    b. might
    c. should
    d. had to

41. "May I smoke here?"
    "Please _____ here."
          a. no smoking
          b. don't smoke
          c. not to smoke
          d. you don't smoke

42. "Do you like the movie?"
    "No, I'm _____ it."
          a. bored to
          b. boring to
          c. bored with
          d. boring with

43. "Will you go to the zoo?"
    "Not _____ you go. I can't go alone."
          a. if
          b. and
          c. when
          d. unless

44. "Shall I wake you up tomorrow?"
    "Yes, _____."
          a. you will
          b. you used to
          c. please do
          d. please shall

45. "How long have you been in this town?"
    "I've been here _____."
          a. 3 years ago
          b. 3 years before
          c. for 3 years
          d. since 3 years ago

46. "Does she come from America?"
    "Yes, she is _____."
          a. a doctor American
          b. an American doctors
          c. a doctor America
          d. an American doctor

47. "Why are you going?"
    "To order _____."
          a. a bottle of beer of myself
          b. for myself a bottle of beer
          c. a bottle of beer to myself
          d. myself a bottle of beer

48. "How much fish do you want?"
    "Two kilos _____ all I need."
          a. is
          b. are
          c. will
          d. may be

49. "Have you ever been to Bangkok?"
    "Yes, _____ been there."
   a. I've
   b. I've ever
   c. I've never
   d. I ever have

50. "Last night?"
    "That's right. The bank _____ last night.
   a. robbed
   b. was robbed
   c. has robbed
   d. had robbed

51. "What did she say?"
    "She said she _____ me."
   a. understand
   b. didn't understand
   c. isn't understand
   d. hasn't understood

52. "Do you like that book?"
    "Sure, I'm very _____ in it."
   a. interest
   b. interested
   c. interesting
   d. being interested

53. "Where is John?"
    "I let him _____ home."
   a. go
   b. going
   c. to go
   d. for going

54. "What should we do?"
    "We can do nothing, unless she _____ tomorrow."
   a. comes
   b. should come
   c. is to come
   d. has come back

55. "What happened?"
    "A car knocked that man down while he _____ the road.
   a. crossed
   b. crossing
   c. was crossing
   d. would cross

56. "Who should go to see Mary?"
    "I suggest that Jane _____."
   a. go
   b. goes
   c. went
   d. to go

57. "How big is your house?"
"It's the same size _____ Jane's."
        a. to
        b. as
        c. with
        d. like

58. "What can I do for you?"
"Would you mind _____ this letter for me?"
        a. mail
        b. mailed
        c. to mail
        d. mailing

59. "Do they understand?"
"Yes, each of them _____ answers bery well."
        a. know his
        b. know their
        c. knows his
        d. knows their

60. "Shall we go?"
"No, _____."
        a. shall not
        b. not shall
        c. not let's
        d. let's not

61. "Is she very rich?"
"No, but she acts _____ she were."
        a. if
        b. as
        c. alike
        d. as if

62. "It hasn't rained this week."
"Yes, it has. It _____ on Monday."
        a. rained
        b. has rained
        c. would rain
        d. would have rained

63. "How is my hair?"
"Lovely. What _____ it?"
        a. did you do
        b. should you do to
        c. have you done to
        d. you have done to

64. "Why can't I sit down?"
"That chair's _____."
        a. break
        b. broke
        c. broken
        d. breaking

65. "This house looks very old."
"Yes, it needs _____."
        a. painted
        b. to paint
        c. be painted
        d. to be painted

66. "These answers aren't correct."
"Do _____."
        a. over them
        b. again them
        c. over them again
        d. them over again

67. "What has happened to Jane?"
"She _____ sick since Sunday."
        a. is
        b. was
        c. had been
        d. has been

68. "Were there many guests at the party?"
"No, only about half of the _____ guests came."
        a. invite
        b. invited
        c. inviting
        d. being invited

69. "Where is Mary?"
"She _____ shopping."
        a. went out
        b. goes out
        c. will go out
        d. had gone out

70. "Is this our old house?"
"Yes, this is where you _____."
        a. born
        b. were born
        c. had been born
        d. has been born

71. "How about this hat?"
"Oh, it's _____ small for me."
        a. so
        b. too
        c. very
        d. such a

72. "What do they use to make bread?"
"It's usually made _____ wheat."
        a. by
        b. of
        c. of with
        d. by from

73. "What were you doing last year?"
    "Pardon? Did you ask me what _____."
            a. I'd done
            b. I'm doing
            c. I'd been doing
            d. I'd be doing

74. "I'll come to see you tomorrow."
    "_____ rather come today."
            a. Hadn't you
            b. Wouldn't you
            c. Couldn't you
            d. Shouldn't you

75. "Did John help you?"
    "Yes, he translated _____."
            a. me the letter
            b. the letter me
            c. the letter for me
            d. the letter with me

76. "How did you like him, Mr. John?"
    "This _____ is very good."
            a. teacher teaches
            b. teachering teacher
            c. teachers teach
            d. teacher's teaching

77. "How are your friends?"
    "Each of _____ is nice."
            a. friend
            b. friends
            c. a friend
            d. my friends

78. "Is he accepted?"
    "Yes, he is accepted _____ trained to fly."
            a. in order that
            b. in order to be
            c. in case of being
            d. in fact of being

79. "Have you done your homework?"
    "No, not yet. _____ tomorrow."
            a. I'll do it
            b. I've done it
            c. I should have done it
            d. I haven't done it until

80. "This beer is for you."
    "No, thanks. I _____ have beer."
            a. mightn't
            b. couldn't
            c. wouldn't rather
            d. wouldn't prefer not to

TABLE .

Item Analysis (Multiple choice Form A)

| Item No. | Res- ponse | Number Responding | | Proportion Responding | | Correlation Coeffi- cients | |
|---|---|---|---|---|---|---|---|
| | | Upper | Lower | Total | Delta | Biserial (RBIS) | Point-Bise- rial (RPB) |
| 1 | A | 0 | 2 | .091 | 18.38 | -0.112 | -0.072 |
| | B | 4 | 6 | .182 | 16.67 | -0.053 | -0.039 |
| | C | 14 | 14 | .556 | 12.40 | .051 | .041 |
| | D | 8 | 4 | .172 | 16.83 | .058 | .041 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 2 | A | 1 | 7 | .152 | 17.16 | -0.414 | -0.296 |
| | B | 4 | 6 | .222 | 16.10 | -0.083 | -0.063 |
| | C | 16 | 8 | .374 | 14.33 | .274 | .219 |
| | D | 4 | 5 | .242 | 15.83 | .030 | .023 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 1 | 0 | .010 | 22.33 | .499 | .166 |
| 3 | A | 1 | 4 | .141 | 17.83 | -0.075 | -0.044 |
| | B | 1 | 3 | .061 | 19.24 | -0.301 | -0.167 |
| | C | 0 | 3 | .030 | 20.54 | -0.556 | -0.265 |
| | D | 24 | 16 | .748 | 10.04 | .313 | .239 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 4 | A | 2 | 2 | .077 | 18.64 | -0.008 | -0.005 |
| | B | 22 | 12 | .646 | 11.46 | .424 | .338 |
| | C | 2 | 9 | .162 | 16.99 | -0.409 | -0.298 |
| | D | 0 | 3 | .111 | 17.92 | -0.243 | -0.161 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 5 | A | 9 | 9 | .323 | 14.87 | -0.035 | -0.028 |
| | B | 12 | 4 | .242 | 15.83 | .273 | .207 |
| | C | 0 | 7 | .162 | 16.99 | -0.319 | -0.233 |
| | D | 5 | 6 | .273 | 15.46 | .029 | .022 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 6 | A | 18 | 12 | .606 | 11.88 | .251 | .200 |
| | B | 1 | 6 | .121 | 17.71 | -0.403 | -0.273 |
| | C | 3 | 4 | .121 | 17.71 | -0.087 | -0.059 |
| | D | 4 | 4 | .152 | 17.16 | .041 | .029 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 7 | A | 1 | 5 | .091 | 18.38 | -0.329 | -0.212 |
| | B | 24 | 9 | .667 | 11.24 | .545 | .433 |
| | C | 0 | 4 | .101 | 18.14 | -0.253 | -0.165 |
| | D | 1 | 8 | .141 | 17.83 | -0.447 | -0.268 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |

| Item No. | Response | Number Responding | | Proportion Responding | | Correlation Coefficients | |
|---|---|---|---|---|---|---|---|
| | | Upper | Lower | Total | Delta | Biserial (RBIS) | Point-Biserial (RPB) |
| 8 | A | 6 | 10 | .293 | 15.22 | -0.068 | -0.053 |
| | B | 17 | 9 | .505 | 12.96 | .192 | .153 |
| | C | 3 | 5 | .162 | 16.99 | -0.114 | -0.083 |
| | D | 0 | 2 | .040 | 20.02 | -0.228 | -0.112 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 9 | A | 19 | 7 | .495 | 13.04 | .500 | .399 |
| | B | 3 | 10 | .273 | 15.46 | -0.361 | -0.279 |
| | C | 3 | 6 | .172 | 16.83 | -0.192 | -0.137 |
| | D | 1 | 3 | .061 | 19.24 | -0.179 | -0.099 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 10 | A | 6 | 4 | .263 | 15.58 | .210 | .164 |
| | B | 5 | 10 | .253 | 15.71 | -0.234 | -0.180 |
| | C | 9 | 7 | .303 | 15.10 | .065 | .051 |
| | D | 6 | 5 | .182 | 16.67 | -0.063 | -0.045 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 11 | A | 8 | 13 | .455 | 13.50 | -0.113 | -0.091 |
| | B | 13 | 6 | .343 | 14.65 | .303 | .240 |
| | C | 4 | 5 | .111 | 17.92 | -0.153 | -0.101 |
| | D | 1 | 2 | .091 | 18.38 | -0.199 | -0.128 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 12 | A | 2 | 1 | .071 | 18.92 | -0.020 | -0.012 |
| | B | 20 | 12 | .697 | 10.90 | .419 | .328 |
| | C | 4 | 6 | .121 | 17.71 | -0.227 | -0.154 |
| | D | 0 | 7 | .111 | 17.92 | -0.467 | -0.310 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 13 | A | 3 | 6 | .202 | 16.38 | -0.156 | -0.118 |
| | B | 12 | 7 | .303 | 15.10 | .109 | .086 |
| | C | 11 | 9 | .434 | 13.70 | .154 | .123 |
| | D | 0 | 4 | .061 | 19.24 | -0.402 | -0.223 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 14 | A | 21 | 12 | .697 | 10.90 | .408 | .319 |
| | B | 5 | 3 | .152 | 17.16 | .020 | .014 |
| | C | 0 | 7 | .101 | 18.14 | -0.531 | -0.348 |
| | D | 0 | 4 | .051 | 19.60 | -0.382 | -0.215 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |

| Item No. | Response | Number Responding | | Proportion Responding | | Correlation Coefficients | |
|---|---|---|---|---|---|---|---|
| | | Upper | Lower | Total | Delta | Biserial (RBIS) | Point-Bise-rial (RPB) |
| 15 | A | 5 | 5 | .121 | 17.71 | -0.142 | -0.096 |
| | B | 20 | 15 | .70 | 10.78 | .282 | .218 |
| | C | 0 | 3 | .051 | 19.60 | -0.295 | -0.166 |
| | D | 1 | 3 | .121 | 17.71 | -0.142 | -0.096 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 16 | A | 22 | 8 | .576 | 12.20 | .540 | .431 |
| | B | 1 | 4 | .081 | 18.64 | -0.328 | -0.196 |
| | C | 3 | 13 | .333 | 14.76 | -0.358 | -0.285 |
| | D | 0 | 1 | .010 | 22.33 | -0.750 | -0.250 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 17 | A | 13 | 12 | .576 | 12.20 | .091 | .073 |
| | B | 0 | 2 | .040 | 20.02 | -0.367 | -0.180 |
| | C | 9 | 5 | .202 | 16.38 | .171 | .129 |
| | D | 4 | 7 | .182 | 16.67 | -0.187 | -0.136 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 18 | A | 7 | 8 | .263 | 15.58 | -0.000 | -0.000 |
| | B | 8 | 8 | .253 | 15.71 | -0.038 | -0.029 |
| | C | 8 | 7 | .293 | 15.22 | .076 | .059 |
| | D | 3 | 3 | .192 | 16.52 | -0.049 | -0.036 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 19 | A | 20 | 2 | .475 | 13.29 | .625 | .499 |
| | B | 2 | 7 | .152 | 17.16 | -0.445 | -0.319 |
| | C | 1 | 11 | .162 | 16.99 | -0.469 | -0.342 |
| | D | 3 | 6 | .212 | 16.23 | -0.031 | -0.023 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 20 | A | 3 | 4 | .111 | 17.92 | -0.127 | -0.084 |
| | B | 2 | 14 | .232 | 15.96 | -0.595 | -0.458 |
| | C | 19 | 6 | .525 | 12.71 | .588 | .470 |
| | D | 2 | 2 | .131 | 17.52 | -0.063 | -0.044 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 21 | A | 3 | 5 | .101 | 18.14 | -0.259 | -0.170 |
| | B | 11 | 9 | .434 | 13.70 | .174 | .139 |
| | C | 3 | 6 | .172 | 16.83 | -0.222 | -0.158 |
| | D | 9 | 5 | .283 | 15.34 | .143 | .112 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 0 | 1 | .010 | 22.33 | -0.266 | -0.089 |

| Item No. | Response | Number Responding Upper | Lower | Proportion Responding Total | Delta | Correlation Coefficients Biserial (RBIS) | Point-Biserial (RPB) |
|---|---|---|---|---|---|---|---|
| 22 | A | 0 | 3 | .040 | 20.02 | -0.533 | -0.262 |
|  | B | 0 | 5 | .071 | 18.92 | -0.503 | -0.300 |
|  | C | 24 | 10 | .717 | 10.66 | .524 | .408 |
|  | D | 2 | 8 | .172 | 16.83 | -0.207 | -0.147 |
|  | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 23 | A | 16 | 10 | .515 | 12.81 | .200 | .160 |
|  | B | 0 | 4 | .040 | 20.02 | -0.630 | -0.309 |
|  | C | 5 | 9 | .293 | 15.22 | -0.121 | -0.094 |
|  | D | 5 | 2 | .141 | 17.83 | .169 | .101 |
|  | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
|  | - | 0 | 1 | .010 | 22.33 | -0.347 | -0.115 |
| 24 | A | 4 | 3 | .081 | 18.64 | .042 | .025 |
|  | B | 10 | 12 | .535 | 12.61 | .027 | .017 |
|  | C | 12 | 6 | .323 | 14.87 | .175 | .107 |
|  | D | 0 | 5 | .061 | 19.24 | -0.493 | -0.274 |
|  | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 25 | A | 14 | 5 | .343 | 14.65 | .360 | .285 |
|  | B | 0 | 7 | .081 | 18.64 | -0.803 | -0.482 |
|  | C | 0 | 3 | .081 | 18.64 | -0.188 | -0.113 |
|  | D | 12 | 11 | .485 | 13.19 | .062 | .049 |
|  | E | 0 | 0 | .010 | 22.33 | .056 | .019 |
| 26 | A | 14 | 10 | .414 | 13.91 | .135 | .108 |
|  | B | 4 | 7 | .222 | 16.10 | -0.165 | -0.124 |
|  | C | 1 | 6 | .141 | 17.83 | -0.242 | -0.145 |
|  | D | 7 | 3 | .222 | 16.10 | .156 | .118 |
|  | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 27 | A | 9 | 8 | .323 | 14.87 | -0.068 | -0.054 |
|  | B | 16 | 14 | .566 | 12.30 | .147 | .118 |
|  | C | 1 | 4 | .091 | 18.38 | -0.228 | -0.147 |
|  | D | 0 | 0 | .020 | 21.25 | .162 | .064 |
|  | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 28 | A | 6 | 6 | .152 | 17.16 | -0.017 | -0.012 |
|  | B | 4 | 4 | .222 | 16.10 | -0.032 | -0.024 |
|  | C | 3 | 7 | .212 | 16.23 | -0.150 | -0.111 |
|  | D | 13 | 9 | .414 | 13.91 | .152 | .122 |
|  | E | 0 | 0 | 0 | 33.00 | 0 | 0 |

| Item No. | Response | Number Responding | | Proportion Responding | | Correlation Coefficients | |
|---|---|---|---|---|---|---|---|
| | | Upper | Lower | Total | Delta | Biserial (RBIS) | Point-Biserial (RPB) |
| 29 | A | 19 | 6 | .475 | 13.29 | .464 | .371 |
| | B | 3 | 8 | .202 | 16.38 | -0.285 | -0.215 |
| | C | 4 | 6 | .182 | 16.67 | -0.053 | -0.039 |
| | D | 0 | 6 | .141 | 17.83 | -0.402 | -0.241 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 30 | A | 1 | 4 | .131 | 17.52 | -0.219 | -0.151 |
| | B | 3 | 12 | .273 | 15.46 | -0.299 | -0.231 |
| | C | 8 | 1 | .172 | 16.83 | .317 | .226 |
| | D | 14 | 9 | .424 | 13.80 | .174 | .139 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 31 | A | 8 | 5 | .182 | 16.67 | .095 | .069 |
| | B | 0 | 7 | .131 | 17.52 | -0.513 | -0.353 |
| | C | 3 | 7 | .152 | 17.16 | -0.242 | -0.173 |
| | D | 15 | 7 | .535 | 12.61 | .388 | .310 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 32 | A | 1 | 4 | .101 | 18.14 | -0.450 | -0.294 |
| | B | 1 | 13 | .293 | 15.22 | -0.466 | -0.362 |
| | C | 4 | 0 | .051 | 19.60 | .457 | .257 |
| | D | 20 | 9 | .556 | 12.40 | .495 | .397 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 33 | A | 8 | 2 | .283 | 15.34 | .177 | .139 |
| | B | 14 | 12 | .495 | 13.04 | .144 | .115 |
| | C | 1 | 5 | .091 | 18.38 | -0.329 | -0.212 |
| | D | 3 | 6 | .121 | 17.71 | -0.227 | -0.154 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 0 | 1 | .010 | 22.33 | -0.266 | -0.089 |
| 34 | A | 2 | 2 | .061 | 19.24 | -0.159 | -0.088 |
| | B | 5 | 12 | .293 | 15.22 | -0.379 | -0.294 |
| | C | 8 | 9 | .374 | 14.33 | .143 | .114 |
| | D | 11 | 3 | .273 | 15.46 | .290 | .224 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 35 | A | 6 | 3 | .101 | 18.14 | .080 | .053 |
| | B | 3 | 7 | .232 | 15.96 | -0.158 | -0.121 |
| | C | 15 | 11 | .495 | 13.04 | .177 | .142 |
| | D | 2 | 5 | .172 | 16.83 | -0.132 | -0.094 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |

| Item No. | Response | Number Responding | | Proportion Responding | | Correlation Coefficients | |
|---|---|---|---|---|---|---|---|
| | | Upper | Lower | Total | Delta | Biserial (RBIS) | Point-Biserial (RPB) |
| 36 | A | 18 | 3 | .404 | 14.01 | .577 | .460 |
| | B | 0 | 4 | .061 | 19.24 | -0.473 | -0.262 |
| | C | 6 | 14 | .374 | 14.33 | -0.249 | -0.199 |
| | D | 2 | 4 | .152 | 17.16 | -0.226 | -0.162 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 0 | 1 | .010 | 22.33 | -0.266 | -0.089 |
| 37 | A | 0 | 6 | .111 | 17.92 | -0.409 | -0.272 |
| | B | 23 | 5 | .596 | 11.99 | .695 | .554 |
| | C | 1 | 3 | .101 | 18.14 | -0.130 | -0.085 |
| | D | 2 | 12 | .192 | 16.52 | -0.550 | -0.407 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 38 | A | 3 | 6 | .162 | 16.99 | -0.134 | -0.098 |
| | B | 8 | 4 | .212 | 16.23 | .142 | .105 |
| | C | 3 | 9 | .182 | 16.67 | -0.364 | -0.264 |
| | D | 12 | 7 | .444 | 13.60 | .238 | .191 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 39 | A | 4 | 5 | .212 | 16.23 | .053 | .040 |
| | B | 7 | 10 | .283 | 15.34 | -0.229 | -0.179 |
| | C | 14 | 6 | .384 | 14.22 | .324 | .258 |
| | D | 1 | 5 | .121 | 17.71 | -0.276 | -0.186 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 40 | A | 6 | 4 | .162 | 16.99 | .041 | .030 |
| | B | 3 | 3 | .172 | 16.83 | -0.057 | -0.041 |
| | C | 0 | 9 | .152 | 17.16 | -0.377 | -0.270 |
| | D | 17 | 10 | .515 | 12.81 | .254 | .203 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 41 | A | 3 | 8 | .141 | 17.83 | -0.197 | -0.118 |
| | B | 16 | 7 | .505 | 12.96 | .424 | .338 |
| | C | 6 | 7 | .192 | 16.52 | -0.141 | -0.105 |
| | D | 1 | 4 | .162 | 16.99 | -0.324 | -0.236 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 42 | A | 5 | 7 | .253 | 15.71 | -0.062 | -0.048 |
| | B | 2 | 13 | .263 | 15.58 | -0.413 | -0.323 |
| | C | 10 | 3 | .232 | 15.96 | .255 | .196 |
| | D | 9 | 3 | .253 | 15.71 | .239 | .184 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |

| Item No. | Res- ponse | Number Responding | | Proportion Responding | | Correlation Coefficietns | |
|---|---|---|---|---|---|---|---|
| | | Upper | Lower | Total | Delta | Biserial (RBIS) | Point-Bise- rial(RPB) |
| 43 | A | 10 | 10 | .444 | 13.60 | .030 | .024 |
| | B | 2 | 5 | .081 | 18.64 | -0.369 | -0.221 |
| | C | 1 | 4 | .081 | 18.64 | -0.139 | -0.083 |
| | D | 13 | 7 | .394 | 14.12 | .181 | .145 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 44 | A | 13 | 8 | .485 | 13.19 | .072 | .057 |
| | B | 1 | 9 | .121 | 17.71 | -0.458 | -0.310 |
| | C | 12 | 4 | .303 | 15.10 | .410 | .322 |
| | D | 0 | 5 | .091 | 18.38 | -0.408 | -0.264 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 45 | A | 3 | 4 | .141 | 17.83 | -0.081 | -0.049 |
| | B | 0 | 1 | .030 | 20.54 | -0.195 | -0.093 |
| | C | 17 | 12 | .545 | 12.50 | .245 | .196 |
| | D | 6 | 9 | .283 | 15.34 | -0.183 | -0.144 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 46 | A | 0 | 12 | .172 | 16.83 | -0.632 | -0.450 |
| | B | 1 | 9 | .131 | 17.52 | -0.582 | -01401 |
| | C | 0 | 0 | .040 | 20.02 | .091 | .044 |
| | D | 25 | 5 | .657 | 11.35 | .791 | .624 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 47 | A | 2 | 7 | .121 | 17.71 | -0.452 | -0.306 |
| | B | 1 | 7 | .222 | 16.10 | -0.177 | -0.134 |
| | C | 6 | 7 | .273 | 15.46 | -0.061 | -0.047 |
| | D | 17 | 5 | .384 | 14.22 | .456 | .363 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 48 | A | 0 | 3 | .051 | 19.60 | -0.317 | -0.178 |
| | B | 21 | 13 | .677 | 11.13 | .298 | .234 |
| | C | 0 | 5 | .061 | 19.24 | -0.493 | -0.274 |
| | D | 5 | 5 | .212 | 16.23 | -0.017 | -0.013 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 49 | A | 14 | 5 | .313 | 14.99 | .365 | .292 |
| | B | 7 | 9 | .384 | 14.22 | -0.078 | -0.062 |
| | C | 4 | 7 | .182 | 16.67 | -0.230 | -0.167 |
| | D | 1 | 5 | .121 | 17.71 | -0.185 | -0.125 |
| | E | 0 | 0 | .0 | 33.00 | 0 | 0 |

| Item No. | Response | Number Responding | | Proportion Responding | | Correlation Coefficient | |
|---|---|---|---|---|---|---|---|
| | | Upper | Lower | Total | Delta | Biserial (RBIS) | Point-Biserial (RPB) |
| 50 | A | 3 | 3 | .162 | 16.99 | -0.074 | -0.054 |
| | B | 22 | 8 | .606 | 11.88 | .511 | .409 |
| | C | 0 | 11 | .141 | 17.83 | -0.766 | -0.460 |
| | D | 1 | 4 | .091 | 18.38 | -0.105 | -0.068 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 51 | A | 0 | 7 | .121 | 17.71 | -0.349 | -0.236 |
| | B | 22 | 12 | .616 | 11.78 | .359 | .285 |
| | C | 0 | 3 | .040 | 20.02 | -0.616 | -0.303 |
| | D | 4 | 4 | .222 | 16.10 | -0.007 | -0.005 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 52 | A | 0 | 9 | .172 | 16.83 | -0.407 | -0.290 |
| | B | 17 | 6 | .414 | 13.91 | .366 | .293 |
| | C | 8 | 11 | .404 | 14.01 | -0.132 | -0.106 |
| | D | 1 | 0 | .010 | 22.33 | .499 | .166 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 53 | A | 13 | 3 | .374 | 14.33 | .347 | .278 |
| | B | 0 | 8 | .162 | 16.99 | -0.409 | -0.298 |
| | C | 13 | 14 | .455 | 13.50 | -0.023 | -0.018 |
| | D | 0 | 1 | .010 | 22.33 | -0.468 | -0.156 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 54 | A | 15 | 2 | .303 | 15.10 | .506 | .398 |
| | B | 7 | 6 | .333 | 14.76 | .084 | .067 |
| | C | 0 | 9 | .131 | 17.52 | -0.547 | -0.377 |
| | D | 4 | 9 | .232 | 15.96 | -0.269 | -0.207 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 55 | A | 4 | 4 | .141 | 17.83 | -0.126 | -0.075 |
| | B | 2 | 10 | .222 | 16.10 | -0.404 | -0.305 |
| | C | 19 | 9 | .566 | 12.30 | .447 | .358 |
| | D | 1 | 3 | .071 | 18.92 | -0.161 | -0.096 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 56 | A | 2 | 5 | .101 | 18.14 | -0.191 | -0.125 |
| | B | 10 | 8 | .354 | 14.54 | .033 | .026 |
| | C | 10 | 9 | .354 | 14.54 | .061 | .049 |
| | D | 4 | 4 | .192 | 16.52 | .006 | .004 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |

| Item No. | Res-ponse | Number Responding | | Proportion Responding | | Correlation Coefficient | |
|---|---|---|---|---|---|---|---|
| | | Upper | Lower | Total | Delta | Biserial (RBIS) | Point-Bise-rial (RPB) |
| 57 | A | 1 | 6 | .121 | 17.71 | -0.385 | -0.260 |
| | B | 21 | 8 | .626 | 11.67 | .464 | .371 |
| | C | 2 | 7 | .111 | 17.92 | -0.294 | -0.195 |
| | D | 2 | 5 | .141 | 17.83 | -0.158 | -0.095 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 58 | A | 13 | 3 | .303 | 15.10 | .291 | .229 |
| | B | 1 | 8 | .152 | 17.16 | -0.377 | -0.270 |
| | C | 8 | 9 | .374 | 14.33 | -0.034 | -0.027 |
| | D | 4 | 6 | .172 | 16.83 | .018 | .013 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 59 | A | 4 | 6 | .162 | 16.99 | -0.229 | -0.167 |
| | B | 7 | 9 | .414 | 13.91 | -0.038 | -0.031 |
| | C | 6 | 2 | .172 | 16.83 | .312 | .222 |
| | D | 9 | 9 | .253 | 15.71 | -0.022 | -0.017 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 60 | A | 4 | 8 | .293 | 15.22 | -0.208 | -0.162 |
| | B | 1 | 4 | .071 | 18.92 | -0.345 | -0.206 |
| | C | 5 | 1 | .071 | 18.92 | .217 | .129 |
| | D | 16 | 13 | .566 | 12.30 | .235 | .188 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 61 | A | 2 | 5 | .101 | 18.14 | -0.225 | -0.148 |
| | B | 0 | 6 | .081 | 18.64 | -0.631 | -0.378 |
| | C | 1 | 8 | .131 | 17.52 | -0.421 | -0.290 |
| | D | 23 | 6 | .677 | 11.13 | .721 | .567 |
| | E | 0 | 0 | 0 | 33.00 | -0.589 | -0.195 |
| | - | 0 | 1 | .010 | 22.33 | -0.589 | -0.196 |
| 62 | A | 6 | 1 | .192 | 16.52 | .144 | .107 |
| | B | 7 | 6 | .303 | 15.10 | .028 | .022 |
| | C | 3 | 10 | .202 | 16.38 | -0.271 | -0.205 |
| | D | 10 | 9 | .303 | 15.10 | .084 | .066 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 63 | A | 14 | 8 | .404 | 14.01 | .169 | .135 |
| | B | 0 | 11 | .253 | 15.71 | -0.358 | -0.276 |
| | C | 12 | 5 | .323 | 14.87 | .215 | .170 |
| | D | 0 | 2 | .020 | 21.25 | -0.459 | -0.183 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |

| Item No. | Res-ponse | Number Responding | | Proportion Responding | | Correlation Coefficient | |
|---|---|---|---|---|---|---|---|
| | | Upper | Lower | Total | Delta | Biserial (RBIS) | Point-Bise-rial (RPB) |
| 64 | A | 4 | 6 | .152 | 17.16 | -0.168 | +0.121 |
| | B | 0 | 7 | .162 | 16.99 | -0.374 | -0.273 |
| | C | 22 | 10 | .606 | 11.88 | .443 | .354 |
| | D | 0 | 3 | .081 | 18.64 | -0.180 | -0.108 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 65 | A | 2 | 2 | .081 | 18.64 | -0.073 | -0.044 |
| | B | 6 | 11 | .394 | 14.12 | -0.082 | -0.066 |
| | C | 6 | 6 | .202 | 16.38 | -0.081 | -0.061 |
| | D | 12 | 6 | .313 | 14.99 | .239 | .190 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 0 | 1 | .010 | 22.33 | -0.589 | -0.196 |
| 66 | A | 4 | 4 | .141 | 17.83 | -0.094 | -0.056 |
| | B | 4 | 7 | .182 | 16.67 | -0.106 | -0.077 |
| | C | 12 | 10 | .444 | 13.60 | .027 | .021 |
| | D | 6 | 5 | .232 | 15.96 | .119 | .091 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 67 | A | 0 | 3 | .030 | 20.54 | -0.720 | -0.343 |
| | B | 1 | 9 | .152 | 17.16 | -0.356 | -0.255 |
| | C | 4 | 10 | .313 | 14.99 | -0.204 | -0.162 |
| | D | 21 | 4 | .495 | 13.04 | .581 | .463 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 0 | 0 | .010 | 22.33 | -0.186 | -0.062 |
| 68 | A | 5 | 5 | .152 | 17.16 | -0.059 | -0.042 |
| | B | 12 | 9 | .485 | 13.19 | .153 | .122 |
| | C | 8 | 11 | .313 | 14.99 | -0.109 | -0.087 |
| | D | 1 | 1 | .051 | 19.60 | -0.044 | -0.025 |
| | E | 0 | 0 | 0 | 33.00 | -0.044 | -0.025 |
| 69 | A | 6 | 4 | .141 | 17.83 | .054 | .032 |
| | B | 10 | 8 | .515 | 12.81 | .157 | .125 |
| | C | 5 | 8 | .172 | 16.83 | -0.247 | -0.176 |
| | D | 5 | 5 | .162 | 16.99 | .006 | .004 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 0 | 1 | .010 | 22.33 | -0.266 | -0.089 |
| 70 | A | 7 | 5 | .212 | 16.23 | -0.009 | -0.006 |
| | B | 14 | 9 | .455 | 13.50 | .304 | .243 |
| | C | 4 | 10 | .212 | 16.23 | -0.336 | -0.249 |
| | D | 1 | 2 | .121 | 17.71 | -0.075 | -0.051 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |

| Item No. | Response | Number Responding | | Proportion Responding | | Correlation Coefficient | |
|---|---|---|---|---|---|---|---|
| | | Upper | Lower | Total | Delta | Biserial (RBIS) | Point-Biserial (RPB) |
| 71 | A | 2 | 2 | .101 | 18.14 | -0.219 | -0.143 |
| | B | 7 | 8 | .343 | 14.65 | -0.053 | -0.042 |
| | C | 16 | 10 | .465 | 13.39 | .284 | .228 |
| | D | 1 | 6 | .091 | 18.38 | -0.271 | -0.175 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 72 | A | 14 | 7 | .465 | 13.39 | .247 | .198 |
| | B | 8 | 2 | .253 | 15.71 | .271 | .209 |
| | C | 2 | 9 | .141 | 17.83 | -0.518 | -0.310 |
| | D | 2 | 8 | .141 | 17.83 | -0.389 | -0.233 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 73 | A | 10 | 3 | .242 | 15.83 | .174 | .132 |
| | B | 1 | 6 | .172 | 16.83 | -0.227 | -0.162 |
| | C | 15 | 15 | .525 | 12.71 | .091 | .072 |
| | D | 0 | 1 | .051 | 19.60 | -0.143 | -0.080 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 0 | 1 | .010 | 22.33 | -0.428 | -0.142 |
| 74 | A | 1 | 4 | .081 | 18.64 | -0.286 | -0.172 |
| | B | 22 | 11 | .646 | 11.46 | .491 | .391 |
| | C | 3 | 6 | .152 | 17.16 | -0.252 | -0.180 |
| | D | 0 | 5 | .121 | 17.71 | -0.342 | -0.232 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 75 | A | 8 | 6 | .222 | 16.10 | .032 | .024 |
| | B | 0 | 2 | .071 | 18.93 | -0.222 | -0.132 |
| | C | 18 | 13 | .636 | 11.57 | .300 | .237 |
| | D | 0 | 5 | .071 | 18.92 | -0.591 | -0.352 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 76 | A | 9 | 6 | .323 | 14.87 | .154 | .121 |
| | B | 4 | 7 | .162 | 16.99 | -0.259 | -0.189 |
| | C | 2 | 8 | .152 | 17.16 | -0.377 | -0.270 |
| | D | 11 | 5 | .364 | 14.43 | .287 | .228 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 77 | A | 0 | 3 | .061 | 19.24 | -0.260 | -0.144 |
| | B | 4 | 7 | .253 | 15.71 | -0.166 | -0.128 |
| | C | 3 | 7 | .172 | 16.83 | -0.247 | -0.176 |
| | D | 19 | 9 | .515 | 12.81 | .392 | .313 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |

| Item No. | Res-ponse | Number Responding | | Proportion Responding | | Correlation Coefficients | |
|---|---|---|---|---|---|---|---|
| | | Upper | Lower | Total | Delta | Biserial (RBIS) | Point-Bi-serial(RPB) |
| 78 | A | 7 | 10 | .313 | 14.99 | -0.058 | -0.047 |
| | B | 12 | 4 | .384 | 14.22 | .279 | .222 |
| | C | 1 | 5 | .101 | 18.14 | -0.395 | -0.259 |
| | D | 6 | 7 | .192 | 16.52 | -0.045 | -0.033 |
| | E | 0 | 0 | .010 | 22.33 | .136 | .045 |
| 79 | A | 15 | 7 | .404 | 14.10 | .306 | .244 |
| | B | 4 | 8 | .232 | 15.96 | -0.145 | -0.112 |
| | C | 4 | 10 | .293 | 15.22 | -0.269 | -0.209 |
| | D | 3 | 1 | .071 | 18.92 | .146 | .087 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 80 | A | 2 | 2 | .101 | 18.14 | -0.021 | -0.014 |
| | B | 11 | 13 | .414 | 13.91 | -0.045 | -0.036 |
| | C | 9 | 8 | .323 | 14.87 | .066 | .052 |
| | D | 4 | 3 | .162 | 16.99 | -0.009 | -0.007 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |

# TEST FORM A

## Histogram of Score Distribution

```
           20%        30%        40%        50%        60%        70%        80%        90%
    :::::::.........................................................................:
FREQ. .    *  *     **  *  * ****  ****  ****  ****  ****  **  *  *  *  *
      .              *    *  ****  ****  *  **  ****  ***   **   *      *
      .              *       ***   ****  *  **  ***   ***   **
      .                          *     *  * ***  *  *   *
  5*. .                             *   *  ***      *
      .                               *     ***      *
      .                                       **
      .                                        *
      .                                        *
 10*. .                                        *
      .                                        *
      .                                        *

                          .
                        MEAN
```
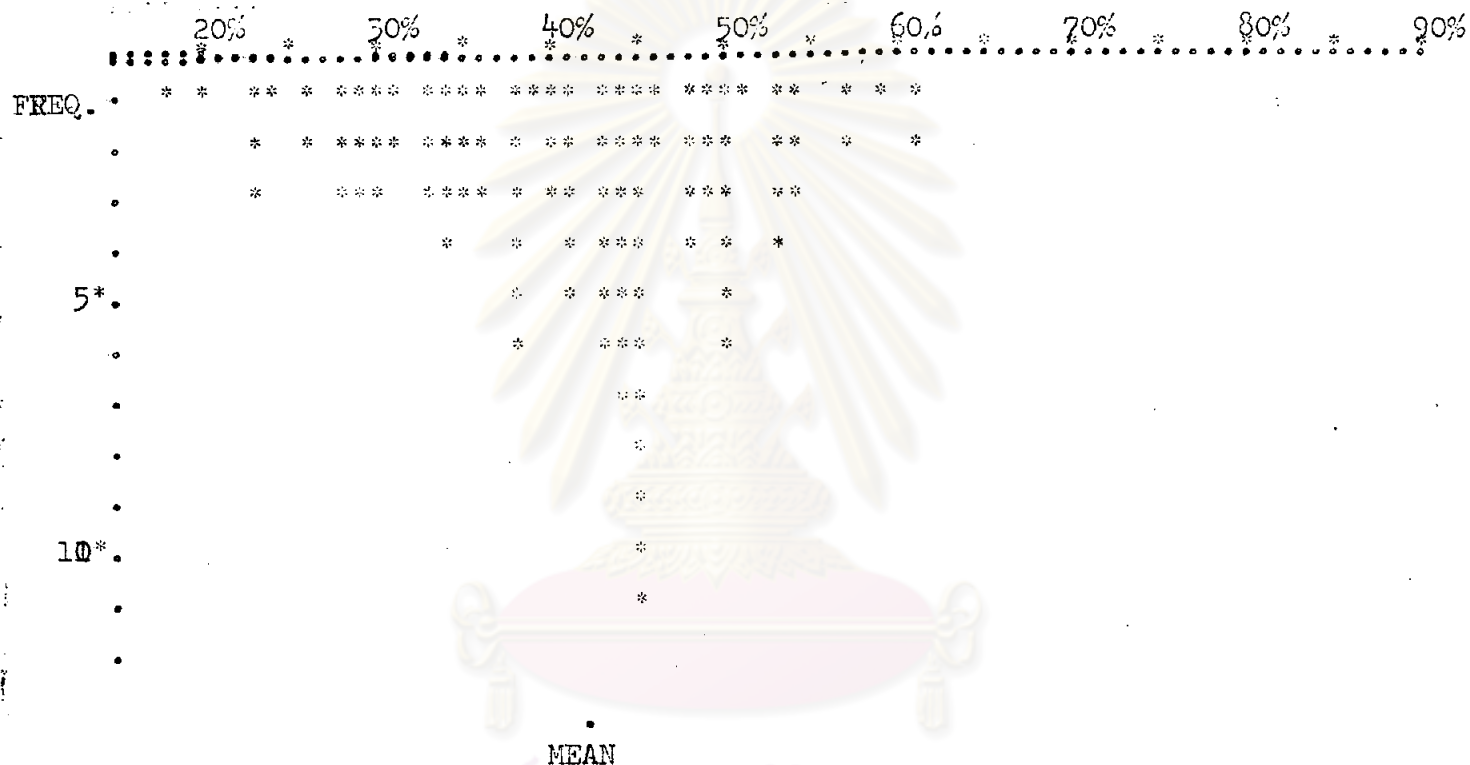
## TEST FORM A

### Distribution of Difficulties

```
MIN                                    MEDIAN                                    MAX

.050    .122    .194    .266    .337    .409    .481    .553    .624    .696    .769
   *  .086*  .158*  .230*  .302*  .373*  .445*  .517*  .588*  .660*  .732*
*.........*..........*.........*.........*.........*.........*.........*.........*.........*.........*.........*

  32  47  69  31   2   5   8  10  11  36  26  19   9  20   1   6   4   7  12   3

  74  56      38  17  42  18  13  25  39  28  29  33  45  16  37  46  48  14

              58  65  66  21  24  71  43  52  70  35  73  55  50  57  61  15

              59      72  23  27  76  53          40      60  51  75      22

              62      79  30  44      78          41          64

              80          34  49                  67

                              54                  68

                              63                  77


T.2   2   1   6   3   5   6   8   4   5   3   3   8   3   4   5   4   3   4   1
```

TEST FORM A

Distribution  of  Biserials

```
MIN                                              MEDIAN                                    MAX

-.453     -.328     -.203     -.079     .045     .169     .294     .418     .542     .666     .792
    *   -.390*  -.265*  -.141*  -.017*  .107*  .231*  .356*  .480*  .604*  .728*
*..........................................................................................*

      47    38   30   0   56   2    8   58   1   13   17   5    3   14   4   9   7   19   37   46
                 74        79   23   27  80  10   21   35   6   11   25  12  16  20       61
                          65   71        18  24   43  15   39   44  29  22  36
                                         31  26   63  34   48   49  32  50  67
                                         69  28        40   53   51  41  54
                                         73  33        42   59   52  55
                                         62        43   70   77  57
                                         66        60   75       64
                                         68        72
                                                   73
                                                   78

T.1   1   2   0   2   3   3   2   6   9   4   11   8   7   8   5   4   1   2   1
```

TEST FORM A SUMMARY

|  | Mean | Min | Median | Max | s | $s^2$ |
|---|---|---|---|---|---|---|
| Test Scores | 32.6 | 14.000 | 31.00 | 48.00 | 7.54 | 56.79 |
| Difficulty | .408 | .051 | .469 | .768 | .495 | .245 |
| Mean Score Delta | 13.179 | 12.240 | 13.134 | 14.028 | .255 | .065 |
| Product Moment R | .635 | .240 | .560 | .880 | .166 | .028 |
| Biserial RBIS | .244 | -0.452 | .169 | .791 | .251 | .063 |
| Point=biserial RPB | .194 | -0.706 | 159 | .624 | .194 | .038 |

Kuder-Richardson Reliability Statistics

KR 20 = .714    SE 20 = 4.028

KR 21 = .668    SE 21 = 4.341

Split-half Reliability Statistics

RTT = .747    SETT = 3.994

(Multiple-choice Structural Test Form B.)

ข้อทดสอบโครงสร้างภาษาอังกฤษแบบเลือกตอบ

สำหรับชั้นประกาศนียบัตรวิชาการศึกษาปีที่ 2 ปีการศึกษา พ.ศ. 2516 ชุดที่ ......

"ห้าม ขีด ฆ่า ขูด ลบ หรือทำเครื่องหมายใด ๆ ลงในแบบทดสอบนี้"

คำแนะนำ

1. จงเลือกคำตอบที่ถูกที่สุดจากแต่ละข้อ แล้วเขียนเครื่องหมาย X ลงในช่อง
( a ) ( b ) ( c ) ( d ) ในกระดาษคำตอบของท่าน

ตัวอย่างที่ 1

          I _____ go to Bangkok tomorrow.
               a. is
               b. was
               c. will
               d. have

คำตอบที่ถูกที่สุดคือ c ดังนั้นท่านก็ทำเครื่องหมาย X ใน
( a ) ( b ) ( c X ) ( d )

2. ถ้าท่านเปลี่ยนใจและต้องการเปลี่ยนคำตอบ โปรดลบเครื่องหมาย หรือ ขีดฆ่า
คำตอบเก่าดังตัวอย่างที่ 2 เสียก่อน ก่อนที่ท่านจะเลือกคำตอบใหม่

ตัวอย่างที่ 2

          I _____ go to Bangkok tomorrow.
               a. is
               b. was
               c. will
               d. have

สมมุติว่าครั้งแรกท่านเลือกคำตอบข้อ c ดังตัวอย่างที่ 1 แล้วท่านเปลี่ยนใจ เลือก
ข้อ d ในภายหลัง ก็ให้ลบ X ให้สะอาดเสียก่อน หรือ ขีดฆ่า X ดังนี้

     a    b    c    d
   (  ) (  ) ( X ) ( X )

3. จงทำข้อสอบทุกข้อด้วยความรอบคอบที่สุด และพยายามทำให้ได้มากข้อที่สุด หากข้อใดที่ทำไม่ได้ ควรเว้นไว้ก่อน เมื่อมีเวลาค่อยกลับมาทำภายหลัง ถ้าท่านมีปัญหา โปรดชูมือเพื่อเรียนถามอาจารย์ผู้ควบคุม และไม่ควรปรึกษาเพื่อน เพราะเขาทำข้อสอบ คนละชุดกับท่าน

4. ถ้าท่านไม่รู้คำตอบข้อใด จงใช้ความสามารถในการเดาคำตอบที่ท่านคิดว่า น่าจะถูกต้องที่สุด จะไม่มีคะแนนติดลบในการเดาครั้งนี้

5. ข้อทดสอบมีทั้งหมด 80 ข้อ และมีอยู่ 8 หน้า โปรดตรวจดูว่าข้อสอบของท่าน มีครบหรือไม่ และอย่าลืมกรอกข้อความในกระดาษคำตอบของท่านให้เรียบร้อย.

1. "What do you want?"
   "I want _____."
        a. mango
        b. any mangoes
        c. some mangoes
        d. little mangoes

2. "May I invite Mary to dinner?"
   "I _____ is she? You close friend?"
        a. How
        b. Who
        c. What
        d. Whom

3. "What's the date today?"
   "It's _____."
        a. five
        b. Sunday
        c. October
        d. October 5

4. "Who is Jane Johnson?"
   "She's a doctor, _____?"
        a. is she
        b. isn't she
        c. is Jane
        d. isn't Jane

5. "Give me a cup?"
   "Which one? _____."
        a. A cup coffee
        b. A coffee cup
        c. A coffee's cup
        d. A cup of coffee

6. "What does she do every Sunday?"
   "She _____."
        a. sleeps all day
        b. watched TV at home
        c. is cleaning her house
        d. will go to see the movie

7. "Where is your house?"
   "I live _____ 123 Sawunvithee Road."
        a. on
        b. at
        c. along
        d. across

8. "Do you watch TV on Sunday?"
   "Yes, I _____."
        a. always do
        b. ever watch
        c. watch sometime
        d. do very hardly

9. "What's good here?"
   "_____."
                a. Nothing is
                b. All each is
                c. No things are
                d. Everything are

10. "It's time to go now."
    "Let's go, _____?"
                 a. aren't we
                 b. won't we
                 c. shall we
                 d. didn't we

11. "Are you doing your homework?"
    "Yes, I am, while Jane _____."
                 a. went to bed
                 b. is sleeping
                 c. had gone out
                 d. would be here soon

12. "Well, I'm very hungry."
    "So _____."
                 a. I'm
                 b. am I
                 c. I'm too
                 d. am I, either

13. "How much bread to you want?"
    "I want _____."
                 a. many
                 b. a lot
                 c. little
                 d. very much

14. "Do you smoke?"
    "No, but I _____."
                 a. used to
                 b. used to do
                 c. am used to
                 d. was used to

15. "Bob usually gets good grades."
    "I think he's _____."
                 a. very smartest
                 b. the smartest student
                 c. a smartest student
                 d. the smartest students

16. "What kind of animal do you like?"
    "I like _____."
                 a. dogs
                 b. a dog
                 c. the dogs
                 d. many dogs

17. "are you going by train?"
"Yes, there aren't many people _____ the train."
       a. in
       b. at
       c. on
       d. by

18. "May I go out tonight, Mother?"
"You _____ ask your father."
       a. need
       b. ought
       c. must
       d. will

19. "I was told Mary is sick. Is she there?"
"No, she _____ home."
       a. went
       b. may go
       c. had gone
       d. should have gone

20. "Is your book like mine?"
"Yes, they're _____."
       a. like
       b. same
       c. alike
       d. similar to

21. "What do you intend to do tomorrow?"
"I _____ the movie."
       a. may seeing
       b. must to see
       c. should seeing
       d. am going to see

22. "Can I help you?"
"Yes, shut the windows, _____?"
       a. did you
       b. don't you
       c. will you
       d. shouldn't you

23. "Would you like a cigar?"
" _____."
       a. No, please
       b. Yes, not now
       c. No, thank you
       d. Yes, not at all

24. "Do you have a lot of money?"
"No, I only have _____ 10 baht."
       a. near
       b. most
       c. about
       d. around

25. "She gave Jim 10 baht and me 20 baht."
    "How come you got _____ money as Jim."
        a. as twice much
        b. as much twice
        c. twice as much
        d. twice much as

26. "Where's your father?"
    "There, the man you _____ over there is my father."
        a. see
        b. see him
        c. saw him
        d. are seeing

27. "Why shouldn't I?"
    "If you _____ that red shirt, you will be laughted at."
        a. wear
        b. wore
        c. wearing
        d. had worn

28. "Did you warm him?"
    "Yes, I've worned him _____ so lazy."
        a. not
        b. that
        c. not being
        d. not to be

29. "Can I help you?"
    "Yes. Will you _____ me five baht?"
        a. lend
        b. borrow
        c. lend to
        d. borrow to

30. "How old is he?"
    "He's _____."
        a. 38-year old
        b. 38 years old
        c. old 38-year
        d. old 38 years

31. "What's your advice?"
    "_____ better read more."
        a. You'd
        b. You're
        c. You'll
        d. You've

32. "I've caught a cold."
    "You wouldn't have if you _____ to me."
        a. listen
        b. listened
        c. had listened
        d. would listened

33. "He arrived exactly at 8:00 a.m." (The appointment was 8:15 a.m.)
    "Oh, he could arrive _____ time."
            a. in
            b. on
            c. of
            d. near

34. "How many children does she have?"
    "Four. One is a girl; _____ are boys."
            a. another
            b. the other
            c. another ones
            d. the others

35. "How did you get this ticket?"
    "My teacher gave _____."
            a. it me
            b. me to it
            c. it to me
            d. me for it

36. "Whose are all these things?"
    "Everything here _____ hers."
            a. is
            b. are
            c. were
            d. belong to

37. "Where can I buy a tent?"
    "What shop sell things _____ for camping."
            a. need
            b. needed
            c. needing
            d. being needed

38. "May I help you?"
    "Yes, I'm _____ a good pen."
            a. seeing at
            b. watching on
            c. looking for
            d. looking after

39. "This room is very hot."
    "May I _____?"
            a. turn over the fan
            b. turn the fan over
            c. turn the fan on
            d. turn off the fan

40. "What do you want, Son?"
    "Please buy _____."
            a. me car
            b. a car to me
            c. me for a car
            d. a car for me

41. "John is very naughty."
    "He's a _____ child."
     a. spoil
     b. spoiled
     c. spoiling
     d. being spoil

42. "Where do you meet John?"
    "I usually meet him _____ the corner."
     a. among
     b. about
     c. around
     d. across

43. "Did you break the glass, John?"
    "No. It _____ since Monday."
     a. broke
     b. was broken
     c. had broken
     d. has been broken

44. "How did you feel when you saw that snake?"
    "I was every _____."
     a. frighten
     b. frightening
     c. frightened
     d. being frightened

45. "How was the movie last night?"
    "Oh, it was very _____."
     a. amuse
     b. amused
     c. amusing
     d. being amused

46. "What was funny about the party?"
    "Well, nothing _____ when we arrived."
     a. cooked
     b. had cooked
     c. had been cooked
     d. has been cooked

47. "Did Mary study last night?"
    "Yes, she _____ before she went to bed."
     a. studied
     b. has studied
     c. has studied
     d. did studying

48. "Did you go to the party last night?"
    "No, I didn't but at first, I _____."
     a. intend to
     b. was intending to
     c. intending to
     d. has intended to

49. "We had a lot of fun on the last trip."
    "I'd have joined you, but I _____ have time."
         a. didn't
         b. hadn't
         c. mightn't
         d. shouldn't

50. "What are you wondering about?"
    "I'm wondering _____ today."
         a. whether it rains
         b. whether or not it will rain
         c. if or not it would rain
         d. if it should rain or not

51. "My grades are very poor. What should I do?"
    "You _____ ____ harder."
         a. s
         b. had better study
         c. would rather study
         d. should have studied

52. "Do you have some money?"
    "I wish I _____."
         a. do
         b. had
         c. have
         d. would have

53. "It might rain again today."
    "If it rains, I _____ out."
         a. won't go
         b. don't go
         c. wouldn't go
         d. mightn't go

54. "How do you know it's sugar?"
    "I think it _____ because it's sweet."
         a. is
         b. was
         c. would be
         d. should have been

55. "You won the first prize again."
    "Yes. If you were me, what _____ do with the money?"
         a. will you
         b. may you
         c. would you
         d. should you

56. "Would you like to go with us?"
    "Well, do you mind _____."
         a. my going
         b. when I go
         c. unless I would
         d. if I won't

65. "I can't find my pen anywhere."
    "You _____ it at home."
                a. leave
                b. may leave
                c. must have left
                d. should have left

66. "Was yesterday Sunday?"
    "I wish it _____."
                a. is
                b. could be
                c. would be
                d. had been

67. "There are a lot of people at the party?"
    "Did many _____ go?"
                a. John friends
                b. friends of John
                c. of John's friends
                d. John's friends

68. "Can you see that dog?"
    "There isn't a dog, _____?"
                a. is it
                b. is there
                c. isn't it
                d. isn't there

69. "Is she going to be there?"
    "I _____."
                a. hope not
                b. don't hope
                c. hope not so
                d. don't hope that

70. "What's your problem, Bob?"
    "Please speak _____."
                a. slower
                b. more slowly
                c. less slowly
                d. more slowlier

71. "John wasn't at home last night."
    "No, _____."
                a. neither I'm
                b. I wasn't either
                c. I wasn't also
                d. either wasn't I

72. "Who was arrested?"
    "One of our men _____."
                a. was
                b. were
                c. had been
                d. would be

73. "Any questions, boys?"
"Yes, please explain _____ again."
    a. that problem us
    b. us to that problem
    c. that problem to us
    d. us for that problem

74. "Why did the plants die?"
"It was _____ hot that they couldn't stand any longer."
    a. so
    b. too
    c. very
    d. much

75. "Did you do the dishes?"
"Yes, I _____ them."
    a. had done
    b. would do
    c. have just done
    d. would have done

76. "Would you like to study in the library?"
"Yes, _____."
    a. I like
    b. I should
    c. I like to
    d. I'd like to

77. "Why didn't you finish your homework?"
"I _____ it, sir, but I was sick last night."
    a. could finish
    b. didn't finish
    c. couldn't finish
    d. could have finished

78. "How can I find your house?"
"Go to the coast and you'll see _____ house."
    a. a very stone old
    b. a very old stone
    c. an old very stone
    d. an old stone very

79. "A car is coming."
"Don't walk _____ the road."
    a. cross
    b. across
    c. acrossing
    d. to across

80. "Where did John buy these glasses?"
"I'm not sure. He _____ them in Bangkok."
    a. could buy
    b. might buy
    c. would have bought
    d. might have bought

TABLE

Item Anslysis (Mulpiple-choice Form B.)

| Item No. | Res- ponse | Number Responding | | Proportion Responding | | Correlation Coeffi- cients | |
|---|---|---|---|---|---|---|---|
| | | Upper | Lower | Total | Delta | Biserial (RBIS) | Point-Bise- rial (RFB) |
| 1 | A | 2 | 7 | .100 | 18.17 | -0.281 | -0.185 |
| | B | 1 | 2 | .030 | 20.56 | -0.463 | -0.222 |
| | C | 24 | 13 | .780 | 9.87 | .440 | .330 |
| | D | 0 | 5 | .090 | 18.40 | -0.249 | -0.152 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 2 | A | 4 | 0 | .100 | 18.17 | .230 | .151 |
| | B | 16 | 13 | .590 | 12.05 | .228 | .183 |
| | C | 2 | 13 | .190 | 16.55 | -0.608 | -0.452 |
| | D | 5 | 1 | .120 | 17.74 | .191 | .130 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 3 | A | 0 | 0 | .040 | 20.04 | .020 | .010 |
| | B | 4 | 13 | .260 | 15.61 | -0.302 | -0.231 |
| | C | 0 | 4 | .040 | 20.04 | -0.459 | -0.226 |
| | D | 23 | 10 | .640 | 11.53 | .378 | .300 |
| | E | 0 | 0 | .010 | 22.34 | -0.070 | -0.023 |
| | - | 0 | 0 | .010 | 22.34 | .056 | .019 |
| 4 | A | 0 | 0 | .010 | 22.34 | .056 | .019 |
| | B | 27 | 26 | .970 | 5.44 | .128 | .057 |
| | C | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | D | 0 | 1 | .020 | 21.25 | -0.208 | -0.083 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 5 | A | 0 | 2 | .020 | 21.25 | -0.782 | -0.314 |
| | B | 5 | 6 | .140 | 17.36 | .062 | .043 |
| | C | 0 | 4 | .060 | 19.26 | -0.518 | -0.289 |
| | D | 22 | 15 | .780 | 9.87 | .314 | .235 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 6 | A | 24 | 5 | .570 | 12.25 | .644 | .516 |
| | B | 0 | 3 | .070 | 18.94 | -0.217 | -0.130 |
| | C | 2 | 9 | .190 | 16.55 | -0.267 | -0.198 |
| | D | 1 | 10 | .170 | 16.86 | -0.539 | -0.385 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 7 | A | 10 | 11 | .440 | 13.64 | .021 | .017 |
| | B | 17 | 15 | .540 | 12.56 | .019 | .015 |
| | C | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | D | 0 | 1 | .020 | 21.25 | -0.283 | -0.113 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |

| Item No. | Response | Number Responding | | Proportion Responding | | Correlation Coefficients | |
|---|---|---|---|---|---|---|---|
| | | Upper | Lower | Total | Delta | Biserial (RBIS) | Point-Biserial (RPB) |
| 8 | A | 22 | 6 | .610 | 11.84 | .573 | .459 |
| | B | 1 | 2 | .040 | 20.04 | -0.241 | -0.119 |
| | C | 4 | 15 | .260 | 15.61 | -0.533 | -0.406 |
| | D | 0 | 4 | .080 | 18.66 | -0.140 | -0.084 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 0 | 0 | .010 | 22.34 | .014 | .005 |
| 9 | A | 21 | 13 | .600 | 11.95 | .349 | .279 |
| | B | 1 | 5 | .130 | 17.54 | -0.244 | -0.169 |
| | C | 1 | 4 | .050 | 19.62 | -0.435 | -0.227 |
| | D | 4 | 5 | .220 | 16.13 | -0.096 | -0.073 |
| | E | C. | 0 | 0 | 33.00 | 0 | 0 |
| 10 | A | 9 | 9 | .420 | 13.85 | .012 | .009 |
| | B | 7 | 6 | .210 | 16.27 | .052 | .038 |
| | C | 10 | 9 | .310 | 15.02 | .068 | .053 |
| | D | 1 | 3 | .060 | 19.26 | -0.338 | -0.189 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 11 | A | 5 | 10 | .260 | 15.61 | -0.118 | -0.090 |
| | B | 22 | 9 | .610 | 11.84 | .386 | .310 |
| | C | 0 | 3 | .070 | 18.94 | -0.272 | -0.163 |
| | D | 0 | 5 | .050 | 19.62 | -0.632 | -0.330 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 0 | 0 | .010 | 22.34 | .056 | .019 |
| 12 | A | 0 | 2 | .050 | 19.62 | -0.312 | -0.163 |
| | B | 8 | 4 | .150 | 17.18 | .148 | .106 |
| | C | 19 | 17 | .760 | 10.14 | .100 | .075 |
| | D | 0 | 4 | .040 | 20.04 | -0.357 | -0.176 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 13 | A | 0 | 0 | .020 | 21.25 | .142 | .057 |
| | B | 10 | 3 | .300 | 15.14 | .261 | .206 |
| | C | 6 | 9 | .290 | 15.25 | -0.124 | -0.096 |
| | D | 11 | 15 | .390 | 14.16 | -0.150 | -0.120 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 14 | A | 8 | 3 | .270 | 15.49 | .119 | .092 |
| | B | 13 | 11 | .390 | 14.16 | .094 | .075 |
| | C | 5 | 5 | .200 | 16.41 | .033 | .024 |
| | D | 1 | 8 | .140 | 17.36 | -0.357 | -0.251 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |

| Item No. | Res-ponse | Number Responding | | Proportion Responding | | Correlation Coefficients | |
|---|---|---|---|---|---|---|---|
| | | Upper | Lower | Total | Delta | Biserial (RBIS) | Point-Bise-rial (RPB) |
| 15 | A | 2 | 11 | .190 | 16.55 | -0.339 | -0.252 |
| | B | 20 | 2 | .390 | 14.16 | .528 | .472 |
| | C | 0 | 6 | .190 | 16.55 | -0.310 | -0.231 |
| | D | 5 | 8 | .230 | 15.99 | -0.126 | -0.097 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 16 | A | 7 | 1 | .170 | 16.86 | .265 | .189 |
| | B | 12 | 18 | .540 | 12.56 | -0.111 | -0.089 |
| | C | 7 | 7 | .230 | 15.99 | -0.053 | -0.041 |
| | D | 1 | 1 | .060 | 19.26 | -0.074 | -0.041 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 17 | A | 8 | 9 | .370 | 14.37 | .017 | .013 |
| | B | 1 | 1 | .040 | 20.04 | -0.125 | -0.062 |
| | C | 15 | 6 | .320 | 14.91 | .353 | .279 |
| | D | 3 | 11 | .270 | 15.49 | -0.363 | -0.280 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 18 | A | 3 | 5 | .130 | 17.54 | -0.196 | -0.136 |
| | B | 4 | 5 | .150 | 17.18 | -0.098 | -0.070 |
| | C | 20 | 8 | .550 | 12.46 | .442 | .354 |
| | D | 0 | 9 | .170 | 16.86 | -0.393 | -0.281 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 19 | A | 14 | 9 | .400 | 14.05 | .217 | .173 |
| | B | 2 | 7 | .180 | 16.70 | -0.184 | -0.135 |
| | C | 5 | 9 | .320 | 14.91 | -0.228 | -0.181 |
| | D | 5 | 2 | .090 | 18.40 | .217 | .133 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | – | 1 | 0 | .010 | 22.34 | .393 | .132 |
| 20. | A | 1 | 7 | .160 | 17.02 | -0.424 | -0.296 |
| | B | 10 | 6 | .390 | 14.16 | .205 | .165 |
| | C | 10 | 4 | .220 | 16.13 | .239 | .181 |
| | D | 6 | 10 | .230 | 15.99 | -0.143 | -0.110 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 21 | A | 3 | 3 | .080 | 18.66 | -0.037 | -0.022 |
| | B | 2 | 7 | .180 | 16.70 | -0.279 | -0.204 |
| | C | 2 | 10 | .200 | 16.41 | -0.299 | -0.218 |
| | D | 20 | 7 | .540 | 12.56 | .430 | .344 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |

| Item No. | Response | Number Responding | | Proportion Responding | | Correlation Coefficients | |
|---|---|---|---|---|---|---|---|
| | | Upper | Lower | Total | Delta | Biserial (RBIS) | Point Biserial (RPB) |
| 22 | A | 0 | 1 | .040 | 20.04 | -0.082 | -0.040 |
| | B | 19 | 12 | .590 | 12.05 | .260 | .208 |
| | C | 2 | 7 | .150 | 17.18 | -0.278 | -0.200 |
| | D | 6 | 7 | .220 | 16.13 | -0.074 | -0.056 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 23 | A | 0 | 0 | .020 | 21.25 | .142 | .057 |
| | B | 3 | 4 | .100 | 18.17 | -0.168 | -0.110 |
| | C | 22 | 22 | .810 | 9.45 | .061 | .045 |
| | D | 2 | 1 | .070 | 18.94 | .049 | .030 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 24 | A | 0 | 1 | .010 | 22.34 | -0.575 | -0.192 |
| | B | 2 | 6 | .150 | 17.18 | -0.278 | -0.200 |
| | C | 25 | 19 | .820 | 9.30 | .381 | .273 |
| | D | 0 | 1 | .020 | 21.25 | -0.258 | -0.103 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 25 | A | 9 | 6 | .310 | 15.02 | .029 | .023 |
| | B | 5 | 5 | .130 | 17.54 | .045 | .031 |
| | C | 11 | 11 | .420 | 14.85 | .040 | .032 |
| | D | 2 | 5 | .140 | 17.36 | -0.150 | -0.106 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 26 | A | 10 | 4 | .200 | 16.41 | .273 | .199 |
| | B | 7 | 7 | .200 | 16.41 | .042 | .031 |
| | C | 2 | 8 | .160 | 17.02 | -0.309 | -0.216 |
| | D | 8 | 8 | .440 | 13.64 | -0.032 | -0.026 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 27 | A | 20 | 12 | .580 | 12.15 | .315 | .252 |
| | B | 4 | 5 | .170 | 16.86 | -0.184 | -0.131 |
| | C | 2 | 2 | .110 | 17.94 | .032 | .021 |
| | D | 1 | 8 | .140 | 17.36 | -0.334 | -0.235 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 28 | A | 11 | 3 | .220 | 16.13 | .301 | .228 |
| | B | 7 | 11 | .300 | 15.14 | -0.123 | -0.097 |
| | C | 6 | 8 | .250 | 15.74 | -0.149 | -0.115 |
| | D | 3 | 5 | .230 | 15.99 | -0.001 | -0.001 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |

| Item No. | Response | Number Responding | | Proportion Responding | | Correlation Coefficients | |
|---|---|---|---|---|---|---|---|
| | | Upper | Lower | Total | Delta | Biserial (RBIS) | Point-Biserial (RPB) |
| 29 | A | 15 | 4 | .300 | 15.14 | .361 | .285 |
| | B | 7 | 8 | .220 | 16.13 | -0.029 | -0.022 |
| | C | 4 | 7 | .250 | 15.74 | -0.140 | -0.108 |
| | D | 1 | 7 | .220 | 16.13 | -0.172 | -0.130 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 0 | 1 | .010 | 22.34 | -0.617 | -0.206 |
| 30 | A | 0 | 4 | .040 | 20.04 | -0.719 | -0.355 |
| | B | 27 | 18 | .900 | 7.83 | .781 | .499 |
| | C | 0 | 2 | .020 | 21.25 | -0.607 | -0.243 |
| | D | 0 | 2 | .030 | 20.56 | -0.309 | -0.148 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 0 | 1 | .010 | 22.34 | -0.617 | -0.206 |
| 31 | A | 9 | 0 | .160 | 17.02 | .429 | .300 |
| | B | 11 | 17 | .550 | 12.46 | -0.103 | -0.083 |
| | C | 1 | 4 | .110 | 17.94 | -0.297 | -0.198 |
| | D | 6 | 5 | .170 | 16.86 | .051 | .036 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 0 | 1 | .010 | 22.34 | -0.617 | -0.206 |
| 32 | A | 1 | 7 | .180 | 16.70 | -0.259 | -0.189 |
| | B | 14 | 6 | .360 | 14.47 | .283 | .226 |
| | C | 12 | 7 | .360 | 14.47 | .148 | .117 |
| | D | 0 | 6 | .090 | 18.40 | -0.409 | -0.249 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 0 | 1 | .010 | 22.34 | -0.617 | -0.206 |
| 33 | A | 16 | 5 | .430 | 13.75 | .327 | .262 |
| | B | 11 | 11 | .410 | 13.95 | -0.000 | -0.000 |
| | C | 0 | 6 | .110 | 17.94 | -0.311 | -0.207 |
| | D | 0 | 4 | .040 | 20.04 | -0.459 | -0.226 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 0 | 1 | .01o | 22.34 | -0.617 | -0.206 |
| 34 | A | 0 | 1 | .020 | 21.25 | -0.158 | -0.063 |
| | B | 0 | 7 | .170 | 16.86 | -0.372 | -0.266 |
| | C | 3 | 7 | .140 | 17.36 | -0.339 | -0.239 |
| | D | 24 | 11 | .660 | 11.31 | .567 | .448 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 0 | 1 | .010 | 22.34 | -0.617 | -0.206 |

| Item | Res- | Number Responding | | Proportion Responding | | Correlation Coefficients | |
|------|------|-------|-------|-------|-------|-------|-------|
| No. | ponse | Upper | Lower | Total | Delta | Biserial (RBIS) | Point-Biserial (RPB) |
| 35 | A | 2 | 2 | .060 | 19.26 | -0.063 | -0.035 |
|    | B | 1 | 4 | .100 | 18.17 | -0.338 | -0.222 |
|    | C | 20 | 8 | .600 | 11.95 | .521 | .416 |
|    | D | 4 | 12 | .230 | 15.99 | -0.333 | -0.257 |
|    | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
|    | - | 0 | 1 | .010 | 22.34 | -0.617 | -0.206 |
| 36 | A | 11 | 3 | .260 | 15.61 | .297 | .226 |
|    | B | 6 | 11 | .300 | 15.14 | -0.119 | -0.094 |
|    | C | 1 | 8 | .100 | 18.17 | -0.594 | -0.391 |
|    | D | 9 | 4 | .330 | 14.80 | .217 | .174 |
|    | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
|    | - | 0 | 1 | .01o | 22.34 | -0.617 | -0.206 |
| 37 | A | 13 | 9 | .400 | 14.05 | .113 | .090 |
|    | B | 12 | 5 | .280 | 15.37 | .292 | .229 |
|    | C | 0 | 7 | .220 | 16.13 | -0.261 | -0.198 |
|    | D | 2 | 5 | .090 | 18.40 | -0.257 | -0.156 |
|    | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
|    | - | 0 | 1 | .010 | 22.34 | -0.617 | -0.206 |
| 38 | A | 0 | 2 | .070 | 18.94 | -0.217 | -0.130 |
|    | B | 0 | 4 | .090 | 18.40 | -0.329 | -0.200 |
|    | C | 27 | 14 | .730 | 10.51 | .541 | .416 |
|    | D | 0 | 6 | .100 | 18.17 | -0.374 | -0.246 |
|    | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
|    | - | 0 | 1 | .010 | 22.34 | -0.617 | -0.206 |
| 39 | A | 0 | 7 | .100 | 18.17 | -0.459 | -0.302 |
|    | B | 0 | 5 | .070 | 18.94 | -0.538 | -0.322 |
|    | C | 22 | 8 | .610 | 11.84 | .548 | .439 |
|    | D | 5 | 6 | .210 | 16.27 | -0.069 | -0.051 |
|    | E | 0 | 0 | 0 | 33.00 | -0.069 | -0.206 |
|    | - | 0 | 1 | .010 | 22.34 | -0.617 | -0.206 |
| 40 | A | 2 | 3 | .060 | 19.26 | -0.179 | -0.100 |
|    | B | 1 | 4 | .120 | 17.74 | -0.165 | -0.112 |
|    | C | 1 | 8 | .120 | 17.74 | -0.501 | -0.340 |
|    | D | 23 | 12 | .700 | 10.86 | .475 | .372 |
|    | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 41 | A | 7 | 11 | .330 | 14.80 | -0.119 | -0.095 |
|    | B | 12 | 6 | .300 | 15.74 | .320 | .248 |
|    | C | 8 | 7 | .390 | 14.16 | -0.031 | -0.025 |
|    | D | 0 | 3 | .030 | 20.56 | -0.618 | -0.296 |
|    | E | 0 | 0 | 0 | 33.00 | 0 | 0 |

| Item No. | Response | Number Responding | | Proportion Responding | | Correlation Coefficients | |
|---|---|---|---|---|---|---|---|
| | | Upper | Lower | Total | Delta | Biserial (RBIS) | Point-Biserial (RPB) |
| 42 | A | 4 | 7 | .230 | 15.99 | -0.074 | -0.057 |
| | B | 3 | 4 | .100 | 18.17 | -0.139 | -0.092 |
| | C | 7 | 6 | .220 | 16.13 | .078 | .059 |
| | D | 13 | 10 | .450 | 13.54 | .068 | .054 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 43 | A | 3 | 2 | .060 | 19.26 | .043 | .024 |
| | B | 2 | 9 | .180 | 16.70 | -0.204 | -0.149 |
| | C | 6 | 8 | .300 | 15.14 | -0.205 | -0.161 |
| | D | 16 | 8 | .460 | 13.44 | .315 | .252 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 44 | A | 1 | 5 | .150 | 17.18 | -0.240 | -0.172 |
| | B | 0 | 5 | .140 | 17.36 | -0.385 | -0.272 |
| | C | 26 | 11 | .650 | 11.42 | .637 | .509 |
| | D | 0 | 6 | .060 | 19.26 | -0.655 | -0.366 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 45 | A | 0 | 6 | .150 | 17.18 | -0.387 | -0.278 |
| | B | 9 | 10 | .320 | 14.91 | .011 | .009 |
| | C | 18 | 8 | .460 | 13.44 | .365 | .291 |
| | D | 0 | 3 | .070 | 18.94 | -0.327 | -0.196 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 46 | A | 1 | 5 | .090 | 18.40 | -0.321 | -0.196 |
| | B | 12 | 6 | .310 | 15.02 | .115 | .090 |
| | C | 9 | 12 | .410 | 13.95 | -0.036 | -0.029 |
| | D | 5 | 3 | .180 | 16.70 | .191 | .139 |
| | E | 0 | 1 | 0 | 33.00 | 0 | 0 |
| | - | 0 | 1 | .010 | 22.34 | -0.744 | -0.249 |
| 47 | A | 3 | 3 | .090 | 18.40 | -0.008 | -0.005 |
| | B | 7 | 7 | .360 | 14.47 | -0.043 | -0.034 |
| | C | 17 | 12 | .440 | 13.64 | .155 | .124 |
| | D | 0 | 5 | .110 | 17.94 | -0.210 | -0.140 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 48 | A | 3 | 7 | .170 | 16.86 | -0.273 | -0.195 |
| | B | 11 | 12 | .430 | 13.75 | .083 | .067 |
| | C | 0 | 6 | .130 | 17.54 | -0.425 | -0.294 |
| | D | 13 | 2 | .270 | 15.49 | .404 | .313 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |

| Item No. | Response | Number Responding | | Proportion Responding | | Correlation Coefficients | |
|---|---|---|---|---|---|---|---|
| | | Upper | Lower | Total | Delta | Biserial (RBIS) | Point-Biserial (RPB) |
| 49 | A | 18 | 7 | .380 | 14.26 | .300 | .239 |
| | B | 6 | 6 | .330 | 14.80 | .150 | .120 |
| | C | 2 | 6 | .120 | 17.74 | -0.222 | -0.151 |
| | D | 1 | 8 | .170 | 16.85 | -0.461 | -0.329 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 50 | A | 13 | 3 | .350 | 14.58 | .308 | .247 |
| | B | 6 | 9 | .220 | 16.13 | -0.078 | -0.059 |
| | C | 2 | 5 | .130 | 17.54 | -0.251 | -0.173 |
| | D | 6 | 10 | .300 | 15.14 | -0.096 | -0.076 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 51 | A | 3 | 10 | .210 | 16.27 | -0.309 | -0.230 |
| | B | 5 | 4 | .170 | 16.86 | .009 | .007 |
| | C | 6 | 5 | .200 | 16.41 | .114 | .083 |
| | D | 13 | 7 | .410 | 13.95 | .209 | .168 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 0 | 1 | .010 | 22.34 | -0.744 | -0.249 |
| 52 | A | 1 | 5 | .070 | 18.94 | -0.299 | -0.179 |
| | B | 22 | 17 | .740 | 10.39 | .157 | .119 |
| | C | 1 | 2 | .050 | 19.62 | -0.189 | -0.098 |
| | D | 3 | 3 | .140 | 17.36 | .062 | .043 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 53 | A | 19 | 7 | .440 | 13.64 | .402 | .322 |
| | B | 0 | 9 | .190 | 16.55 | -0.339 | -0.252 |
| | C | 8 | 9 | .280 | 15.37 | -0.085 | -0.067 |
| | D | 0 | 2 | .090 | 18.40 | -0.176 | -0.107 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 54 | A | 19 | 4 | .420 | 13.85 | .484 | .387 |
| | B | 2 | 4 | .170 | 16.86 | -0.106 | -0.075 |
| | C | 4 | 11 | .230 | 15.99 | -0.251 | -0.194 |
| | D | 2 | 7 | .170 | 16.86 | -0.257 | -0.184 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 0 | 1 | .010 | 22.34 | -0.365 | -0.122 |
| 55 | A | 16 | 10 | .530 | 12.66 | .091 | .073 |
| | B | 0 | 2 | .030 | 20.56 | -0.377 | -0.181 |
| | C | 11 | 11 | .400 | 14.05 | -0.545 | -0.269 |
| | D | 0 | 4 | .040 | 20.04 | -0.545 | -0.269 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |

| Item No. | Res- ponse | Number Responding | | Proportion Responding | | Correlation Coefficients | |
|---|---|---|---|---|---|---|---|
| | | Upper | Lower | Total | Delta | Biserial (RBIS) | Point-Bise- rial (RPB) |
| 56 | A | 1 | 2 | .060 | 19.26 | .032 | .018 |
| | B | 4 | 6 | .240 | 15.86 | -0.060 | -0.045 |
| | C | 1 | 9 | .140 | 17.36 | -0.494 | -0.348 |
| | D | 21 | 10 | .550 | 12.46 | .347 | .278 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 0 | 0 | .010 | 22.34 | -0.070 | -0.023 |
| 57 | A | 26 | 17 | .820 | 9.30 | .441 | .317 |
| | B | 1 | 4 | .110 | 17.94 | -0.170 | -0.113 |
| | C | 0 | 6 | .070 | 18.94 | -0.565 | -0.338 |
| | D | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 58 | A | 5 | 3 | .160 | 17.02 | .008 | .006 |
| | B | 1 | 17 | .310 | 15.02 | -0.459 | -0.359 |
| | C | 0 | 1 | .030 | 20.56 | -0.154 | -0.074 |
| | D | 21 | 6 | .500 | 13.00 | .443 | .353 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 59 | A | 2 | 4 | .070 | 18.94 | -0.180 | -0.108 |
| | B | 17 | 14 | .660 | 11.31 | .009 | .007 |
| | C | 6 | 9 | .220 | 16.13 | -0.029 | -0.022 |
| | D | 2 | 0 | .050 | 19.62 | .292 | .152 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 60 | A | 4 | 5 | .180 | 16.70 | -0.094 | -0.069 |
| | B | 3 | 5 | .140 | 17.36 | -0.196 | -0.138 |
| | C | 0 | 3 | .040 | 20.04 | -0.444 | -0.219 |
| | D | 20 | 13 | .630 | 11.63 | .368 | .294 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 0 | 1 | .010 | 22.34 | -0.744 | -0.249 |
| 61 | A | 7 | 2 | .240 | 15.86 | .169 | .129 |
| | B | 1 | 7 | .150 | 17.18 | -0.393 | -0.282 |
| | C | 3 | 7 | .190 | 16.55 | -0.190 | -0.141 |
| | D | 16 | 11 | .420 | 13.85 | .257 | .205 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 62 | A | 24 | 3 | .440 | 13.64 | .688 | .550 |
| | B | 1 | 14 | .400 | 14.05 | -0.435 | -0.347 |
| | C | 2 | 8 | .100 | 18.17 | -0.381 | -0.250 |
| | D | 0 | 2 | .060 | 19.26 | -0.211 | -0.118 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |

| Item No. | Res-ponse | Number Responding | | Proportion Responding | | Correlation Coefficients | |
|---|---|---|---|---|---|---|---|
| | | Upper | Lower | Total | Delta | Biserial (RBIS) | Point-Biserial (RPB) |
| 63 | A | 3 | 7 | .150 | 17.18 | -0.174 | -0.125 |
| | B | 1 | 4 | .080 | 18.66 | -0.285 | -0.172 |
| | C | 21 | 14 | .720 | 10.63 | .281 | .220 |
| | D | 2 | 2 | .050 | 19.62 | -0.065 | -0.034 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 64 | A | 0 | 4 | .050 | 19.62 | -0.583 | -0.304 |
| | B | 10 | 5 | .240 | 15.86 | .225 | .171 |
| | C | 15 | 8 | .490 | 13.04 | .171 | .136 |
| | D | 2 | 10 | .220 | 16.13 | -0.239 | -0.181 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 65 | A | 5 | 9 | .200 | 16.41 | -0.236 | -0.172 |
| | B | 9 | 7 | .350 | 14.58 | .077 | .061 |
| | C | 7 | 5 | .280 | 15.37 | .058 | .045 |
| | D | 6 | 6 | .170 | 16.86 | .072 | .051 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 66 | A | 0 | 2 | .060 | 19.26 | -0.243 | -0.135 |
| | B | 1 | 6 | .140 | 17.36 | -0.357 | -0.251 |
| | C | 10 | 4 | .160 | 17.02 | .314 | .220 |
| | D | 16 | 15 | .640 | 11.53 | .103 | .081 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 67 | A | 3 | 4 | .100 | 18.17 | -0.175 | -0.115 |
| | B | 22 | 10 | .650 | 11.42 | .471 | .376 |
| | C | 0 | 9 | .120 | 17.74 | -0.514 | -0.349 |
| | D | 2 | 4 | .130 | 17.54 | -0.136 | -0.094 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 68 | A | 15 | 9 | .450 | 13.54 | .244 | .195 |
| | B | 11 | 12 | .410 | 13.95 | -0.025 | -0.020 |
| | C | 1 | 2 | .070 | 18.94 | -0.116 | -0.069 |
| | D | 0 | 4 | .070 | 18.94 | -0.455 | -0.273 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 69 | A | 1 | 3 | .060 | 19.26 | -0.222 | -0.124 |
| | B | 4 | 9 | .270 | 15.49 | -0.158 | -0.123 |
| | C | 6 | 7 | .170 | 16.86 | -0.106 | -0.075 |
| | D | 16 | 8 | .500 | 13.00 | .281 | .224 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |

| Item No. | Response | Number Responding | | Proportion Responding | | Correlation Coefficients | |
|---|---|---|---|---|---|---|---|
| | | Upper | Lower | Total | Delta | Biserial (RBIS) | Point-Biserial (RPB) |
| 70 | A | 7 | 3 | .160 | 17.02 | .123 | .086 |
| | B | 17 | 12 | .570 | 12.25 | .203 | .162 |
| | C | 0 | 9 | .130 | 17.54 | -0.491 | -0.340 |
| | D | 3 | 3 | .140 | 17.36 | .010 | .007 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 71 | A | 0 | 3 | .120 | 17.74 | -0.107 | -0.073 |
| | B | 25 | 11 | .640 | 11.53 | .510 | .405 |
| | C | 2 | 10 | .200 | 16.41 | -0.424 | -0.309 |
| | D | 0 | 3 | .040 | 20.04 | -0.487 | -0.241 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 72 | A | 19 | 6 | .440 | 13.64 | .423 | .339 |
| | B | 4 | 10 | .200 | 16.41 | -0.270 | -0.197 |
| | C | 4 | 9 | .310 | 15.02 | -0.165 | -0.129 |
| | D | 0 | 2 | .050 | 19.62 | -0.262 | -0.137 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 73 | A | 4 | 3 | .090 | 18.40 | -0.016 | -0.010 |
| | B | 2 | 9 | .180 | 16.70 | -0.310 | -0.226 |
| | C | 19 | 10 | .610 | 11.84 | .340 | .272 |
| | D | 2 | 5 | .120 | 17.74 | -0.196 | -0.133 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 74 | A | 5 | 3 | .110 | 17.94 | .166 | .111 |
| | B | 12 | 10 | .390 | 14.16 | .001 | .001 |
| | C | 10 | 11 | .450 | 13.54 | .012 | .009 |
| | D | 0 | 3 | .050 | 19.62 | -0.349 | -0.182 |
| | E | 0 | 0 | 0 | 33.00 | -0.349 | -0.182 |
| 75 | A | 7 | 6 | .330 | 14.80 | -0.063 | -0.050 |
| | B | 5 | 7 | .180 | 16.70 | -0.229 | -0.167 |
| | C | 12 | 9 | .360 | 14.47 | .195 | .155 |
| | D | 3 | 5 | .120 | 17.74 | .058 | .039 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 0 | 0 | .010 | 22.34 | .014 | .005 |
| 76 | A | 6 | 5 | .220 | 16.13 | .011 | .008 |
| | B | 5 | 8 | .240 | 15.86 | -0.155 | -0.227 |
| | C | 0 | 6 | .150 | 17.18 | -0.316 | -0.227 |
| | D | 16 | 7 | .380 | 14.26 | .394 | .314 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 0 | 1 | .010 | 22.34 | -0.744 | -0.249 |

| Item No. | Response | Number Responding | | Proportion Responding | | Correlation Coefficients | |
|---|---|---|---|---|---|---|---|
| | | Upper | Lower | Total | Delta | Biserial (RBIS) | Point-Biserial (RPB) |
| 77 | A | 8 | 4 | .150 | 17.18 | .208 | .150 |
| | B | 5 | 8 | .260 | 15.61 | -0.160 | -0.122 |
| | C | 7 | 9 | .260 | 15.61 | -0.055 | -0.042 |
| | D | 7 | 6 | .330 | 14.80 | .049 | .039 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 78 | A | 2 | 4 | .100 | 18.17 | -0.303 | -0.199 |
| | B | 22 | 5 | .620 | 11.74 | .610 | .485 |
| | C | 1 | 17 | .040 | 20.04 | .020 | .010 |
| | D | 2 | 1 | .040 | 20.04 | .020 | .010 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| 79 | A | 14 | 3 | .430 | 13.75 | .412 | .330 |
| | B | 4 | 8 | .210 | 16.27 | -0.254 | -0.289 |
| | C | 1 | 7 | .110 | 17.94 | -0.438 | -0.292 |
| | D | 7 | 9 | .240 | 15.86 | -0.030 | -0.022 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 1 | 0 | .010 | 22.34 | .435 | .146 |
| 80 | A | 8 | 5 | .230 | 15.99 | .198 | .153 |
| | B | 5 | 4 | .130 | 17.54 | -0.064 | -0.044 |
| | C | 7 | 12 | .360 | 14.47 | -0.186 | -0.148 |
| | D | 6 | 6 | .270 | 15.49 | .021 | .016 |
| | E | 0 | 0 | 0 | 33.00 | 0 | 0 |
| | - | 1 | 0 | .010 | 22.34 | .435 | .146 |

TEST FORM B

Histogram    of    Score    Distribution

```
          10%       20%        30%        40%        50%        60%        70%

FREQ       .         *        *** ** * **   *** ** **** ***** ****   **

           .                 **  *  * ***  *** ** ****   *   ****

           o                  *  * *   ** **% ** *   *       ***

           .                  *     * * ** ** *         **

           o                  *       * ** ** * *       **

  5*       .                  *       ** **        **

           .                       *  *            *

           .                       o  *

           .                       *  o

           o                       *

 10*       .                       *

           .

           .                       .
                                  MEAN
```
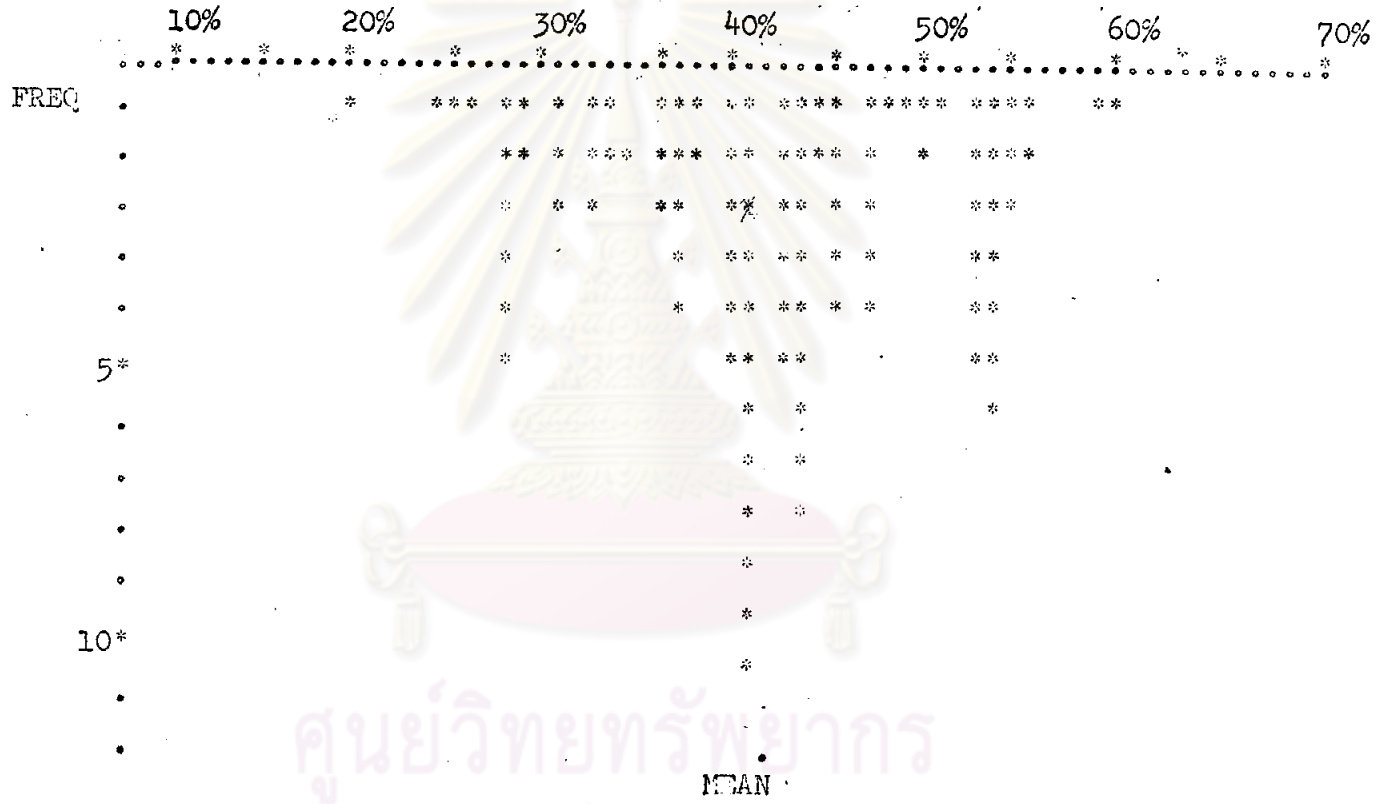
# TEST FORM B

## Distribution of Difficulties

```
MIN                                     MEDIAN                                              MAX
.059    .151    .242    .333    .424    .515    .606    .679    .788    .896    .971
    .105*   .197*   .278*   .378*   .470*   .561*   .652*   .743*   .834*   .924*
*...*...*...*...*...*...*...*...*...*...*...*...*...*...*...*...*...*...*...*...*

   47   5   16  20  14  10  32  15  43  58   7   2   3   34  38   1   23   0   30   4

   56  12   31  26  36  13  75  19  45  64  18   6   8   40      24

   69  22   46  28  37  17      33  48      21   9  11   52

       57  51   42  41  25      49  53      27  39   63

       67      50  65  29      54  62      35  44

       74      59  80. 77      55      70  60

               72              61          66

               79              68          71

                               76          73

                                           78

T.3    6   4    8   6   6   2   9   5   2   3   6   10   1   4   1   2   0   1   1
```

Distribution of Biserials

```
MIN                                        MEDIAN                                    MAX

-.279   -.172   -.066   .040    .146    .252    .353    .464    .569    .675    .782
    * -.225* -.119* -.013  .093*   .199*   .305*   .411*   .517*   .622*   .728*
    *...*...*...*...*...*...*...*...*...*...*...*...*...*...*...*...*...*...*...*

        22  69  57  50  59  7  5   4   12  2  13  9  3  1   40  34  8   6   62  30

        72      67      68  25 10  14  32  19 16  17 11 18  54  35  15  44

        79                  28 23  55  46  20 26  27 24 21  71  38  78

                            33 42  66  52  70 36  41 29 31      39

                            47 48      64     37 43 45 58

                            51 65      74     49 73 53

                            56 77      75     61 60

                            80         63     76
```

```
T. 3  1   2   1   2   8   7   4   7   4   3   6   8   5   3   4   3   2   1   1
```

124

## TEST FORM B SUMMARY

| | Mean | Min | Median | Max | s | $s^2$ |
|---|---|---|---|---|---|---|
| Test Scores | 23.7 | 16.00 | 22.00 | 48.00 | 7.14 | 50.91 |
| Difficulty | .421 | .060 | .515 | .970 | .498 | .248 |
| Mean Score Delta | 13.154 | 12.585 | 13.084 | 13.583 | .193 | .037 |
| Product-Moment R | .637 | .215 | .590 | .966 | .186 | .034 |
| Biserial RBIS | .240 | -0.278 | .252 | .731 | .237 | .056 |
| Point-biserial RPB | .188 | -0.200 | .175 | .550 | .182 | .033 |

### Kuder-Richardson Reliability Statistics

KR 20 = .699        SE 20 = 3.915

KR 21 = .625        SE 21 = 4.170

### Split-half Reliability Statistics

RTT = .678        SETT = 4.317

Re-arrangement of the Test Items to Form a New Multiple-choice

Structure Test Utilized in the Main Study

| No. of New Multiple-Choice Test Items | No. of the Old Test Items | | Difficulty Level | Discrimination Power (Biserials) |
|---|---|---|---|---|
| | Form A | Form B | | |
| 1 | 3 | | .748 | .313 |
| 2 | 20 | | .731 | .588 |
| 3 | | 38 | .730 | .541 |
| 4 | | 63 | .720 | .281 |
| 5 | 22 | | .717 | .524 |
| 6 | 15 | | .707 | .282 |
| 7 | | 40 | .700 | .475 |
| 8 | 12 | | .697 | .419 |
| 9 | 14 | | .697 | .408 |
| 10 | 48 | | .677 | .298 |
| 11 | 61 | | .677 | .721 |
| 12 | 7 | | 677 | .545 |
| 13 | | 34 | .660 | .567 |
| 14 | 46 | | .657 | .791 |
| 15 | | 67 | .650 | .471 |
| 16 | | 44 | .650 | .637 |
| 17 | 4 | | .646 | .424 |
| 18 | 74 | | .646 | .491 |
| 19 | | 3 | .640 | .282 |
| 20 | | 71 | .640 | .500 |
| 21 | 75 | | .636 | .300 |
| 22 | | 60 | .630 | .368 |
| 23 | | | .626 | .464 |
| 24 | | 78 | .620 | .610 |
| 25 | 51 | | 616 | .359 |

| No. of New Multiple-choice Test Items | No. of the Old Test Items | | Difficulty Level | Discrimination Power (Biserials) |
|---|---|---|---|---|
| | Form A | Form B | | |
| 26 | | 8 | .610 | .573 |
| 27 | | 11 | .610 | .386 |
| 28 | | 39 | .618 | .548 |
| 29 | | 73 | .610 | .540 |
| 30 | 50 | | .606 | .511 |
| 31 | 64 | | .606 | .443 |
| 32 | | 9 | .600 | .340 |
| 33 | | 35 | .600 | .541 |
| 34 | 37 | | .596 | .695 |
| 35 | | 27 | .580 | .315 |
| 36 | 16 | | .576 | .540 |
| 37 | | 6 | .570 | .644 |
| 38 | 55 | | .566 | .447 |
| 39 | 72 | | .556 | .495 |
| 40 | | 18 | .550 | .442 |
| 41 | | 21 | .540 | .400 |
| 42 | | 24 | .520 | .381 |
| 43 | 79 | | .520 | .306 |
| 44 | 77 | | .515 | .392 |
| 45 | 41 | | .505 | .424 |
| 46 | | 58 | .500 | .443 |
| 47 | 67 | | .495 | .581 |
| 48 | 9 | | .495 | .500 |
| 49 | 29 | | .475 | .464 |
| 50 | 19 | | .475 | .625 |
| 51 | | 45 | .460 | .365 |
| 52 | | 43 | .460 | .315 |
| 53 | 70 | | .455 | .304 |
| 54 | | 53 | .440 | .402 |
| 55 | | 72 | .440 | .423 |

| No. of New Multiple-choice Test Items | No. of the Old Test Items | | Difficulty Level | Discrimination Power (Biserials) |
|---|---|---|---|---|
| | Form A | Form B | | |
| 56 | | 62 | .440 | .638 |
| 57 | | 33 | .430 | .327 |
| 58 | | 79 | .430 | .412 |
| 59 | | 54 | .420 | .484 |
| 60 | 52 | | .414 | .366 |
| 61 | 36 | | .404 | .577 |
| 62 | | 15 | .390 | .588 |
| 63 | 39 | | .384 | .324 |
| 64 | 47 | | .384 | .456 |
| 65 | | 49 | .380 | .300 |
| 66 | | 76 | .380 | .394 |
| 67 | 53 | | .374 | .374 |
| 68 | 11 | | .343 | .303 |
| 69 | 25 | | .343 | .360 |
| 70 | | 17 | .320 | .353 |
| 71 | 49 | | .313 | .366 |
| 72 | 44 | | .303 | .410 |
| 73 | 54 | | .302 | .506 |
| 74 | | 29 | .300 | .361 |
| 75 | | 41 | .300 | .320 |

(The Multiple-choice Structural Test Used in the Main Study)

Test No : _____

Time : 1 hr.

NAKORNSAWAN COLLEGE

"Structural Test" (English 5) for Second - year Students

---

Order : Choose the best answer a, b, c or d and blanken such a number in your answer sheet. PLEASE DO NOT WRITE ANYTHING ON THIS TEST.

1. "Please give me 5 baht, John."
   "I'm sorry. I _____."
   - a. had none
   - b. have any
   - c. have some
   - d. don't have any

2. "It rains every day. The roads are bad."
   "Yes, and the traffic is _____ of all."
   - a. worse
   - b. badder
   - c. the worst
   - d. the baddest

3. "May I help you?"
   "Yes, I'm _____ a good pen."
   - a. seeing at
   - b. watching on
   - c. looking for
   - d. looking after

4. "What's her nationality?"
   "She's _____."
   - a. America
   - b. of America
   - c. an American
   - d. the American

5. "What did you buy?"
   "I bought _____."
   - a. two box chalk
   - b. two boxes chalk
   - c. two boxes of chalk
   - d. two boxes of chalks

6. "Shall we leave now?"
   "Okay, _____."
   - a. shan't we
   - b. let's go
   - c. let leave
   - d. shall leave

7. "What do you want, Son?"
   "Please buy _____."
       a. me car
       b. a car to me
       c. me for a car
       d. a car for me

8. "John always studies hard."
   "And _____."
       a. I do, so
       b. I do, too
       c. so I do also
       d. so I do either

9. "Do you want anything?"
   "Please, _____ to buy me a pen."
       a. remember
       b. to remember
       c. remembering
       d. being remembered

10. "How much fish do you want?"
    "Two kilos _____ all I need."
        a. is
        b. are
        c. will
        d. may be

11. "Is she very rich?"
    "No, but she acts _____ she were."
        a. if
        b. as
        c. alike
        d. as if

12. "Don't interrupt me."
    "Okay, I'll do it my way; you do it _____."
        a. your
        b. yours
        c. your ways
        d. your own

13. "How many children does she have?"
    "Four. One is a girl; _____ are boys."
        a. another
        b. the other
        c. another ones
        d. the others

14. "Does she come from America?"
    "Yes, she is _____."
        a. a doctor American
        b. an American doctors
        c. a doctor America
        d. an American doctor

15. "There are a lot of people at the party?"
"Did many _____ go?"
      a. John friends
      b. friends of John's
      c. John's friends
      d. of John's friends

16. "How did you feel when you saw that snake?"
"I was very _____."
      a. frighten
      b. frightening
      c. frightened
      d. being frightened

17. "Is this your car?"
"No. It's _____."
      a. Jacks'
      b. Jack's
      c. of Jack
      d. car of Jack's

18. "I'll come to see you tomorrow."
"_____ rather come today?"
      a. Hadn't you
      b. Wouldn't you
      c. Couldn't you
      d. Shouldn't you

19. "What's the date today?"
"It's _____."
      a. eleven
      b. Saturday
      c. January
      d. January 11

20. "John wasn't at home last night."
"No, _____."
      a. neither I'm
      b. I wasn't either
      c. I wasn't also
      d. either wasn't I

21. "Did John help you?"
"Yes, he translated _____."
      a. me the letter
      b. the letter me
      c. the letter for me
      d. the letter with me

22. "Where can I sit?"
"Sit there, _____ your mother and father."
      a. among
      b. during
      c. besides
      d. between

23. "How big is your house?"
   "It's the same size _____ Jane's."
       a. to
       b. as
       c. with
       d. like

24. "How can I find your house?"
   "Go to the coast and you'll see _____ house."
       a. a very stone old
       b. a very old stone
       c. an old very stone
       d. an old stone very

25. "What did she say?"
   "She said she _____ me."
       a. understand
       b. didn't understand
       c. isn't understand
       d. hasn't understood

26. "Do you watch TV on Sunday?"
   "Yes, I _____ ."
       a. always do
       b. ever watch
       c. watch sometime
       d. do very hardly

27. "Are you doing your homework?"
   "Yes, I'm while Jane _____ ."
       a. went to bed
       b. is sleeping
       c. had gone out
       d. would be here soon

28. "This room is very hot."
   "May I _____ ?"
       a. turn over the fan
       b. turn the fan over
       c. turn the fan on
       d. turn off the fan

29. "Any questions, boys?"
   "Yes, please explain _____ again."
       a. that problem us
       b. us to that problem
       c. that problem to us
       d. us for that problem

30. "Last night?"
   "That's right. The bank _____ last night."
       a. robbed
       b. was robbed
       c. has robbed
       d. had robbed

31. "Why can't I sit down?"
    "That chair is _____."
        a. break
        b. broke
        c. broken
        d. breaking

32. "What's good here?"
    "_____."
        a. Nothing is
        b. All each is
        c. No things are
        d. Every thing are

33. "How did you get this ticket?"
    "My teacher gave _____."
        a. it me
        b. me to it
        c. it to me
        d. me for it

34. "Was the test difficult?"
    "Yes, it was so difficult that I _____ failed."
        a. most
        b. almost
        c. mostly
        d. the most

35. "Why shouldn't I?"
    "If you _____ that red shirt, you'll be laughted at."
        a. wear
        b. wore
        c. wearing
        d. had worn

36. "Which is harder, French or English?"
    "Well, I think French is as _____ as English."
        a. diificult
        b. difficulty
        c. more difficult
        d. the most difficult

37. "What does she do every Sunday?"
    "She _____."
        a. sleeps all day
        b. watched TV at home
        c. is cleaning her house
        d. will go to see the movie

38. "What happened?"
    "A car knocked that man down while he _____ the road."
        a. crossed
        b. crossing
        c. was crossing
        d. would cross

39. "My book is black."
    "So, it is _____ mine."
    a. differs to
    b. different to
    c. differs from
    d. different from

40. "May I go out tonight, Mother?"
    "You _____ ask your father."
    a. need
    b. ought
    c. must
    d. will

41. "What do you intend to do tomorrow?"
    "I _____ the movie."
    a. may seeing
    b. must to see
    c. should seeing
    d. am going to see

42. "Do you have a lot of money?"
    "No, I only have _____ 10 baht."
    a. near
    b. most
    c. about
    d. around

43. "Have you done your homework?"
    "No, not yet. _____ tomorrow."
    a. I'll do it
    b. I've done it
    c. I should have done it
    d. I haven't done it until

44. "How are your friend?"
    "Each of _____ is nice."
    a. friend
    b. friends
    c. a friend
    d. my friends

45. "May I smoke here?"
    "Please _____ here."
    a. no smoking
    b. don't smoke
    c. not to smoke
    d. you don't smoke

46. "What did you get?"
    "I got a _____ bill."
    a. five bahts
    b. five-bahts
    c. fives-baht
    d. five-baht

47. "What has happened to Jane?"
    "She _____ sick since Sunday."
    a. is
    b. was
    c. had been
    d. has been

48. "What time is it, John?"
    "It's _____."
    a. eight twenty
    b. forty to nine
    c. eight after twenty
    d. forty before nine

49. "Are you going to see him?"
    "If I _____, I'll let you know."
    a. go
    b. will go
    c. would go
    d. had gone

50. "How is Jane now?"
    "Fine. She is _____."
    a. getting over her cold
    b. over getting her gone
    c. getting her cold over
    d. getting her over cold

51. "How was the movie last night?"
    "Oh, it was very _____."
    a. amuse
    b. amused
    c. amusing
    d. being amuse

52. "Did you break the glass, John?"
    "No. It _____ since Monday."
    a. broke
    b. was broke
    c. had broken
    d. has been broken

53. "Is this our old house?"
    "Yes, this is where you _____."
    a. born
    b. were born
    c. had been born
    d. has been born

54. "It might rain again today."
    "If it rains, I _____ out."
    a. won't go
    b. don't go
    c. wouldn't go
    d. mightn't go

55. "Who was arrested?"
"One of our men _____."
  a. was
  b. were
  c. had been
  d. would be

56. "When will he leave?"
"I don't know. I wonder what _____."
  a. time it is
  b. time is it
  c. is it time
  d. it is time

57. "He arrived exactly at 8:00 a.m." (The appointment was 8: a.m.)
"Oh, he could arrive _____ time."
  a. in
  b. on
  c. of
  d. near

58. "A car is coming."
"Don't walk _____ the road."
  a. cross
  b. across
  c. acrossing
  d. to across

59. "How do you know it's sugar?"
"I think it _____ because it's sweet."
  a. is
  b. was
  c. would be
  d. should have been

60. "Do you like that book?"
"Sure. I'm very _____ in it."
  a. interest
  b. interested
  c. interesting
  d. being interested

61. "Jack killed a big snake."
"I don't know how _____ it."
  a. he did
  b. did he
  c. did he do
  d. he did to

62. "Bob usually gets good grades."
"I think he's _____."
  a. very smartest
  b. the smartest student
  c. a smartest student
  d. the smartest students

63. "How much sugar do you want?"
    "I need _____ you have."
          a. as half much as
          b. as much half as
          c. half as much as
          d. as much as half

64. "Why are you going?"
    "To order _____."
          a. for myself a bottle of beer
          b. a bottle of beer of myself
          c. myself a bottle of beer
          d. a bottle of beer to myself

65. "We had a lot of fun on the last trip."
    "I'd have joined you, but I _____ have time."
          a. didn't
          b. hadn't
          c. mightn't
          d. shouldn't

66. "Would you like to study in the library?"
    "Yes, _____."
          a. I like
          b. I should
          c. I like to
          d. I'd like to

67. "Where is John?"
    "I let him _____ home."
          a. go
          b. going
          c. to go
          d. for going

68. "Mary is short, I think."
    "But John is shorter than _____."
          a. hers
          b. she
          c. she was
          d. her is

69. "Who bought you that shirt?"
    "I bought it _____."
          a. myself
          b. of myself
          c. to myself
          d. for myself

70. "Are you going by train?"
    "Yes, there aren't many people _____ the train."
          a. in
          b. at
          c. on
          d. by

71. "Have you ever been to Bangkok?"
    "Yes, _____ been there."
       a. I've
       b. I've ever
       c. I've never
       d. I ever have

72. "Shall I wake you up tomorrow?"
    "Yes, _____."
       a. you will
       b. you used to
       c. please do
       d. please shall

73. "What should we do?"
    "We can do nothing, unless she _____ tomorrow."
       a. comes
       b. should come
       c. is to come
       d. has come back

74. "Can I help you?"
    "Yes, Will you _____ me five baht?"
       a. lend
       b. borrow
       c. lend to
       d. borrow to

75. "John is very naughty."
    "He's a _____ child."
       a. spoil
       b. spoiled
       c. spoiling
       d. being spoil

Good luck !

(The Cloze Test Used in the Main Study)

NAKORNSAWAN COLLEGE

Test No: _____
Time : 1 hr.

"Structural Test" (English 5) for Second - year Students

Name (in Thai) Mr. ___ Miss ___ _____ Class:____

---

<u>คำสั่ง</u> จง เติมคำลงในช่องว่าง<u>เพียงช่องละ 1 คำเท่านั้น</u> เพื่อทำให้เรื่องถูกต้องและสมบูรณ์
<u>ข้อควรระวังก็คือ</u> ท่านจะต้อง เติมคำให้ถูกต้องตาม กาล (Tenses) ความสอดคล้อง
(Agreements) และตามไวยากรณ์ (Grammatically)

<u>ตัวอย่าง</u> Mary is a student. I <u>am</u> a student, <u>too</u> . So, we are
students. We go to school every weekday.

คำที่ท่านจะต้อง เติมก็คือ am, too และ students เพื่อที่จะทำให้เรื่องนี้สมบูรณ์
และถูกต้องตาม<u>เนื้อเรื่องและ</u><u>ตามไวยากรณ์</u>

<u>หมายเหตุ</u>

1. คำย่อใด ๆ เช่น don't, I'll, a.m., I've <u>ถือว่าเป็นคำเดียว</u>

2. คำผสมใด ๆ เช่น second - year, classroom <u>ถือว่าเป็นคำเดียว</u>
   <u>แต่ถ้าคำผสมนั้น เขียนแยกกันโดยไม่มี</u> hypen ( - ) ระหว่างคำ ไม่ถือว่า<u>เป็น</u>
   <u>คำเดียว</u> เช่น English teacher, teacher student, paper bag

3. จงพยายามใช้ความสามารถเติมคำให้ครบทุกช่อง

## GOING TO THE MARKET

I have a sister, Mary and a brother, Bob. Bob is fatter than
Mary, but she is taller than _____ . Bob _____ low grade
every term. He is the _____ student in class, but Mary is the
_____ student. She has many books. Each of her _____ is
interesting and _____ . (She always _____ alone while she
is _____ .) We live in New York. Our family is _____ . Dad is

an _____ teacher.

"When _____ you going to the market?" Bob asked me
yesterday (January _____, 1974.)

"Very soon. If I _____, I'll let you know," answered I.
"But if it rains, I _____ go out."

"You _____ been sick for days. You _____ stay home, Bob,"
said Mary.

"But I'm getting _____ my cold now, and my _____ arm is
much better," protested Bob. (He fell down from a tree last Sunday and
broke his arm.)

"Sorry, Bob," said Dad, "I can't let you _____ _____, and
please _____ smoke. It will make you worse."

"Okay," admitted Bob, "but please _____ to buy me 3 very
_____ fountain pens and soap."

"Shall I buy you 3 bars of _____, too?" asked I.

"Yes, please _____," replied Bob, "and please turn TV
_____, Mary."

"We can't use it, Son, unless the electrician _____ to
repair it tonight," said Mom.

Dad said he _____ want _____ things, but only 2 kilos of
meat _____ all Mom wanted.

"Are you ready, Mary? Let's _____," said I.

The road to town was very slippery. (ลื่น) Although I had to
walk as _____ as possible, I _____ fell down twice. Some people
could walk very quickly _____ if they were walking on a good road.
I wondered how they _____ it. It _____ said that morning that
an old man was _____ down while he was _____ the road. We were
very _____, and walked _____ the road more carefully.

At the market, I bought 3 pens (One was red; the _____
were blue.) and soap for Bob, and _____ a new shirt. (My old shirt
was too old!) We found a butcher who had 4 kilos of meat. Mary bought
_____ as much as he had.

"Will you _____ me 5 dollars, Mary?" I begged.

"Why? I only have _____ 10 dollars left now," said she.

"Please give _____ to me 5 dollars. I'm very _____ in

a knife for camping."

"_____ you rather buy it later?" She suggested. "Dad might buy it _____ you."

"I _____ like to buy it _____. If I _____ it later, it will be sold out," I answered.

At last Mary gave me a _____ bill. I bought that knife. Then, she asked me what time it _____. I said it was one _____. (1 : 30 p.m.)

"I'm hungry," she said.

"And I am, _____," I agreed. "Let's look _____ a place to eat."

Mary didn't like Chinese dishes, and I didn't, _____. So, we stopped at a Thai shop where a waiter translated Thai manu _____ us, and also explained some food ingredient _____ us. This shop was near a station. I saw a lot of people _____ a train. "None of them _____ unhappy," I thought, "I should have come by train, but I _____ have a chance."

On the way home, we stopped first at grandmother's house where Dad _____ born, but we could get home _____ time for dinner. At our back yard, I saw Bob sitting _____ Dad and Mom, and many friends of _____ were on a bench.

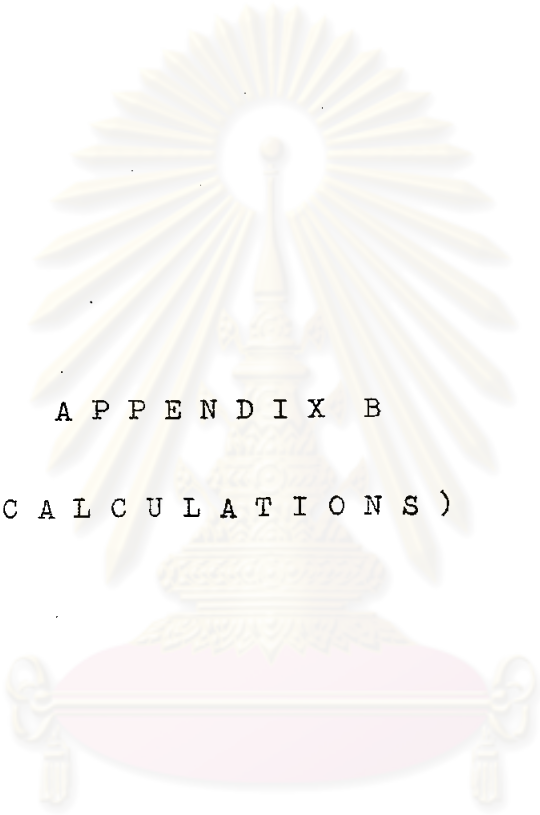"Beware of that bench!" I exclaimed loudly. "It _____ been broken since Sunday."

"Don't worry, kids," said Dad, "I fixed it this morning."

"Is that so?" I said. "Here are what we have. This shirt is mine, these pens and soap are _____, Bob, and this meat is _____. Nothing _____ for Dad except this newspaper."

"Thanks," said Bob. "Your new shirt looks _____ from your old one, but it is the same size _____ mine, isn't it?"

"I think it _____," answered I. "And by the way, have you ever been to grandmother's house lately, Dad?"

"Yes, I _____. And I _____ be there tomorrow, too," Dad said.

(Key of the cloze Test)

## GOING TO THE MARKET

I have a sister, Mary and a brother, Bob. Bob is fatter than Mary, but she is taller than <u>he</u>. Bob <u>gets</u> low grade every term. He is the <u>worst</u> student in class, but Mary is the <u>smartest</u> students. She has many books. Each of her <u>books</u> is interesting and <u>amusing</u>. (She always <u>laughs</u> alone while <u>reading</u>.)We live in New York. Our family is <u>American</u>. Dad is an <u>English</u> teacher.

"When <u>are</u> you going to the market?" Bob asked me yesterday (dating January <u>11</u>, 1974.)

"Very soon. If I <u>go</u>, I'll let you know," answered I. "But if it rain I <u>won't</u> go out."

"You <u>have</u> been sick for days. You <u>must</u> stay home, Bob," said Mary.

"But I'm getting <u>over</u> my cold now, and my <u>broken</u> arm is much better," protested Bob. (He fell down from a tree last Sunday and broke his arm.)

"Sorry, Bob," said Dad, "I can't let you <u>go</u> please <u>don't</u> smoke, it will make you worse."

"Okay," admitted Bob, "but please <u>remember</u> to buy me 3 very <u>modern</u> fountain pens and soap."

"Shall I buy you 3 bars of <u>soap</u>, too?" asked I.

"Yes, please <u>do</u>," replied Bob," and please turn TV <u>on</u>,Mary."

"We can't use it, Son, unless the electrician <u>comes</u> to repair it tonight," said Mom.

Dad said he <u>didn't</u> want <u>any</u> things, but only 2 kilos of meat <u>were</u> all Mom wanted.

"Are you ready, Mary? Let's <u>go</u>," said I.

The road to town was very slippery. (ลื่น) Although I had to walk as <u>carefully</u> as possible, I <u>almost</u> fell down twice. Some people could walk very quickly <u>as</u> if they were walking on a good road. I wondered now they <u>did</u> it. It <u>was</u> said that morning that an old man was <u>knocked</u> down while he was <u>crossing</u> the road. We were very <u>fightened</u> and walked <u>across</u> the road more carefully.

At the market, I bought 3 pens (One was red; and the <u>others</u> were blue.) and soap for Bob, and <u>myself</u> a hew shirt. (My old shirt was too

old.) We found a butcher who had 4 kilos of meat. Mary bought <u>half</u> as much as he had.

"Will you <u>lend</u> me 5 dollars, Mary?" begged I.

"Why? I only have <u>about</u> 10 dollars left now," said she.

"Please give <u>it</u> to me 5 dollars. I'm very interested in a knife for camping."

"Wouldn't you rather buy it later?" she suggested, Dad might buy it <u>for</u> you."

"I'<u>d</u>   like to buy it myself. If I <u>buy</u> it later, it will be sold out," I answered.

At last Mary gave me a <u>five-dollars</u> bill. I bought that knife. Then she asked me what time it <u>was</u>. I said it was one <u>thirty</u>.(1:30 p.m.

"I'm hungry," she said.

"And I am, <u>too</u>," I agreed, "Let's look <u>for</u> a place to eat."

Mary didn't like Chinese dishes and I didn't <u>either</u>. So we stopped at a Thai shop where a waiter translated Thai manu <u>for us</u>, and also explained some food ingrediant <u>to</u> us.  This shop was near a station. I saw a lot of people <u>on</u> the train. "None of them <u>seems</u> unhappy," I thought, "I should have come by train, but I <u>didn't</u> have a chance."

On the way home, we stopped first at grandmother's house where Dad <u>was</u> born, but we could get home <u>in</u> time for dinner. At our back yard, I saw Bob sitting <u>between</u> Dad and Mom and many friends of <u>his</u> were on a bench.

"Beware of that bench!" I exclaimed I loudly. "It <u>has</u> been broken since Sunday."

"Don't worry, kids," said Dad, "I fixed it this morning."

"Is that so?" I said. "Here are what we have. This shirt is mine, these pens and soap are <u>yours</u>,Bob, and this meat is <u>Mom's</u>. Nothing <u>is</u> for Dad except this newspaper."

"Thanks," said Bob. "Your shirt looks different <u>from</u> your old one, but it is the same size <u>as</u> mine,  isn't it?"

"I think it <u>is</u>," answered I. "And by the way, have you ever been to grandmother's house lately, Dad?"

"Yes, I <u>have</u>. And I <u>will</u> be there tomorrow, too," Dad replied.

APPENDIX B

(CALCULATIONS)

I. Calculating for Reliability Coefficients of the Tests

   1. The reliability coefficient of the multiple-choice structure test.

$$r_{tt} = \frac{n \, {}_t^2 - M_t(n - M_t)}{(n - 1) \, {}_t^2}$$

$$= \frac{75 \times 88.3859 - 34.355(75 - 34.855)}{74 \times 88.3859}$$

$$= \frac{6628.9425 - 1396.3589}{6540.5566}$$

$$= \frac{5232.5836}{6540.5566}$$

$$= 0.80$$

   2. The reliability coefficient of the cloze test.

$$r_{tt} = \frac{n \, {}_t^2 - M_t(n - M_t)}{(n - 1) \, {}_t^2}$$

$$= \frac{75 \times 193.7145 - 26.095(75 - 26.095)}{74 \times 193.7145}$$

$$= \frac{14528.5875 - 12761759}{14334.873}$$

$$= \frac{13252.4116}{14334.873}$$

$$= .9244$$

## Standard Errors of Measurement

1. 
$$S_E = s\sqrt{1 - r_{tt}}$$

$$S_{E.MC_t} = 9.4013\sqrt{1 - .8}$$

$$= 9.4013 \times .4472$$

$$= 4.2042$$

So, the standard error of measurement of the multiple-choice structure test was $\pm$ 4.2

2. 
$$S_E = s\sqrt{1 - r_{tt}}$$

$$S_{E.CL_t} = 13.9181\sqrt{1 - .9244}$$

$$= 13.9181 \quad .0756$$

$$= 13.9181 \times .2749$$

$$= 3.826$$

So, the standard error of measurement of the cloze test was $\pm$ 3.8

ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย

## II. Calculating for Correlation Coefficients between the Tests

1. The correlation between the scores of the multiple-choice structure test and the cloze test in Group I ($MC_1 \longleftrightarrow CL_1$)

$$r_{XY} = \frac{N\sum XY - \sum X \sum Y}{\sqrt{\left[N\sum X^2 - (\sum X)^2\right]\left[N\sum Y^2 - (\sum Y)^2\right]}}$$

$$= \frac{(100 \times 109328) - (3587)(2773)}{\sqrt{\left[100 \times 138214 - (3587)^2\right]\left[100 \times 108945 - (2773)^2\right]}}$$

$$= \frac{10932800 - 9946751}{\sqrt{(13821400 - 12866569)(10894500 - 7689529)}}$$

$$= \frac{986049}{\sqrt{954831 \times 3204971}}$$

$$= \frac{986049}{1749344.1989}$$

$$= 0.5636$$

$r_{XY}$ was significant at .01 level of confidence

$(0.5636 > 0.258$ at $0.01)$

2. The correlation between the socres of the multiple-choice structure test and the cloze test in Group II. ($CL_2 \longrightarrow MC_2$)

$$r_{XY} = \frac{N\sum XY - \sum X \sum Y}{\sqrt{\left[N\sum X^2 - (\sum X)^2\right]\left[N\sum Y^2 - (\sum Y)^2\right]}}$$

$$= \frac{(100 \times 85059) - (3284)(2446)}{\sqrt{\left[100 \times 115428 - (3284)^2\right]\left[100 \times 65794 - (2446)^2\right]}}$$

$$= \frac{8505900 - 8032664}{\sqrt{(11542800 - 10784656)(6579400 - 5982916)}}$$

$$= \frac{473236}{\sqrt{758144 \times 596484}}$$

$$= \frac{473236}{672473.6171}$$

$$= 0.7037$$

$r_{XY}$ was significant at .01 level of confidence

$$(0.7037 > 0.258 \text{ at } 0.01)$$

3. The pooled correlation coefficient between the scores of the multiple-choice structure test and the cloze test.

$$\bar{Z} = \frac{(n_I - 3) Z_I}{(n_I - 3)}$$

| Group | $r_I$ | $Z_I$ | $n_I$ | $n_I - 3$ | $(n_I - 3) Z_I$ |
|-------|-------|-------|-------|-----------|-----------------|
| I | .5636 | .640 | .100 | 97 | 62.08 |
| II | .7037 | .867 | 100 | 97 | 84.099 |
| | | | | 194 | 146.179 |

$$\bar{Z} = \frac{146.179}{194}$$

$\bar{Z}$ = 0.7535 was comparable to r = 0.640

So, pooled correlation coefficient was 0.640

III. Calculating for Correlation Coefficient Differences.

The differences between the correlation coefficients of Group I and Group II.

$$Z = \frac{Z_{r_1} - Z_{r_2}}{\sqrt{\frac{1}{n_1 - 3} + \frac{1}{n_2 - 3}}}$$

$$Z = \frac{.867 - .640}{\sqrt{\frac{1}{97} + \frac{1}{97}}}$$

$$= \frac{.227}{.1435}$$

$$= 1.5818$$

Then was no significant differences between the correlation coefficients of the two groups at 0.01 level of confidence.

$$(1.5818 < 2.58 \text{ at } 0.01)$$

IV. Calculating for Mean Differences

1. The difference between the means of the multiple-choice test and the cloze test in Group I ($MC_1$    $CL_1$)

$$H_o \; : \; M_1 = M_2$$

$$s_{\bar{X}_1 - \bar{X}_2} = \sqrt{s_{\bar{X}_1}^2 + s_{\bar{X}_2}^2 - 2r_{12} s_{\bar{X}_1} s_{\bar{X}_2}}$$

$$= \frac{96.4475}{100} + \frac{323.7344}{100} - 2 \times .5636 \times .98207 \times 1.79925$$

$$= 4.20181 - 1.99172$$

$$= 1.48663$$

$$\therefore \text{C.R.} = t = \frac{\bar{X}_1 - \bar{X}_2}{s_{\bar{X}_1 - \bar{X}_2}}$$

$$= \frac{35.87 - 27.73}{1.48663}$$

$$= 5.47547$$

The difference between means was significant at 0.01 level of confidence (5.47547 > 2.576). If means that the subjects in Group I could score higher on the multiple-choice structure test than could they on the cloze test.

2. The difference between the means of the multiple-choice structure test and the clozen in Group II. ($CL_2 \rightarrow MC_2$)

$$H_o : \mathcal{M}_1 = \mathcal{M}_2$$

$$s_{\bar{X}_1 - \bar{X}_2} = \sqrt{s_{\bar{X}_1}^2 + s_{\bar{X}_2}^2 - 2r_{12}s_{\bar{X}_1}s_{\bar{X}_2}}$$

$$= \frac{76.5802}{100} + \frac{76.5802}{100} - 2 \times .7037 \times .87509 \times .77627$$

$$= (1.36841) - (.95605)$$

$$= .64215$$

$$C.R. = t = \frac{\bar{X}_1 - \bar{X}_2}{s_{\bar{X}_1 - \bar{X}_2}}$$

$$= \frac{32.84 - 24.46}{.64215}$$

$$= 13.04991$$

The difference between the means was significant of 0.01 level of confidence. (13.05991 > 2.576) It means that the subjects in Group I could score high on the multiple-choice test than could they on the clozen test.

3. The difference between the means of the total multiple-choice structure test and the clozen test. ($MC_t$ and $CL_t$)

$$H_o : \mathcal{M}_1 = \mathcal{M}_2$$

$$s(\bar{X}_1 - \bar{X}_2) = \sqrt{s_{\bar{X}_1}^2 + s_{\bar{X}_2}^2 - 2r_{12}s_{\bar{X}_1}s_{\bar{X}_2}}$$

$$= \frac{88.3859}{200} + \frac{193.7145}{200} - 2 \times .640 \times .66477 \times .98415$$

$$= 1.41049 - .83741$$

$$= .75702$$

$$C.R. = t = \frac{\bar{X}_1 - \bar{X}_2}{s(\bar{X}_1 - \bar{X}_2)}$$

$$= \frac{34.355 - 26.095}{.75702}$$

$$= 10.9112$$

The difference between the means was significant at 0.01 (10.9112 > 2.576) It means that the subjects could score higher on the multiple-choice structure test than could they on the cloze test.

V. Calculating for Sex Effect on the Test Scores.

1. The difference between the means of the male subjects and the
female subjects on performing the multiple-choice structure
test in Group I.

$$H_o : M_1 = M_2$$

$$s_{(\bar{X}_1 - \bar{X}_2)} = \sqrt{\frac{s^2}{N_1} + \frac{s^2}{N_2}}$$

$$= \frac{90.7962}{66} + \frac{80.352}{34}$$

$$= 1.3756 + 2.3632$$

$$= 1.9335$$

$$C.R. = t = \frac{\bar{X}_1 - \bar{X}_2}{1.9335}$$

$$= \frac{40.2647 - 33.6060}{1.9335}$$

$$= 3.4438$$

The difference between the means was significant at 0.01 level
of confidence. (3.4438 > 2.576) It means that the female subjects could
score higher on the multiple-choice structure test than could the male
subjects.

2. The difference between the means of the male subjects and the female subjects on performing the cloze test in Group I.

$$H_o \quad : \quad M_1 = M_2$$

$$s_{\bar{X}_1 - \bar{X}_2} = \sqrt{\frac{s^2}{N_1} + \frac{s^2}{N_2}}$$

$$= \frac{348.6567}{66} + \frac{258.7629}{34}$$

$$= 5.28267 + 7.1067$$

$$= 3.51985$$

$$C.R. = t = \frac{\bar{X}_1 - \bar{X}_2}{3.51985}$$

$$= \frac{31.52 - 25.7727}{3.51985}$$

$$= 1.63282$$

At 0.01 level of confidence, there was no difference between the means of the male subjects and the female subjects on performing the cloze test. (1.63282 $<$ 2.576). If means that the male subjects (in Group I) could score on the cloze test as well as could the female subjects.

3. The difference between the means of the male subjects and the female subjects on performing the multiple-choice structure test in Group II.

$$H_o \quad : \quad M_1 = M_2$$

$$s_{(\bar{X}_1 - \bar{X}_2)} = \sqrt{\frac{s^2}{N_1} + \frac{s^2}{N_2}}$$

$$= \frac{79.9496}{54} + \frac{71.9536}{46}$$

$$= 1.4805 + 1.5642$$

$$= 1.7449$$

$$C.R. = t = \frac{\bar{X}_1 - \bar{X}_2}{1.7449}$$

$$= \frac{45.9411 - 31.8888}{1.7449}$$

$$= 8.0533$$

The difference between the means was significant at 0.01 level of confidence. (8.0533 > 2.576) of means that the female subjects could scores higher on the multiple-choice structure test than could the male subjects.

4. The difference between the means of the male subjects and the famale subjects on performing the cloze test in Group II.

$$H_o : M_1 = M_2$$

$$s_{(\bar{X}_1 - \bar{X}_2)} = \sqrt{\frac{s^2}{N_1} + \frac{s^2}{N_2}}$$

$$= \frac{33.1176}{54} + \frac{69.3072}{46}$$

$$= 0.999 + 1.5066$$

$$= 1.5829$$

$$C.R. = t = \frac{\bar{X}_1 - \bar{X}_2}{1.5829}$$

$$= \frac{33.1176 - 20.00}{1.5829}$$

$$= 8.287$$

The difference between the means was significant at 0.01 level of confidence. (8.287 > 2.576) It means that the female subjects could scores higher on the cloze test than could the male subjects.

ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย

VI. Establishing a Frame of Reference

  1. Regression equation

$$\hat{Y} = r_{XY} \frac{s_Y}{s_X}(X - \bar{X}) + \bar{Y}$$

$$= .64 \frac{13.9181}{9.4013}(X - 34.355) + 26.094$$

$$= .64 \times 1.48(X - 34.355) + 26.094$$

$$= .947 \, x - 6.439$$

Example   X = 45

$$= .947 \times 45 - 6.439$$

$$= 42.615 - 6.439$$

$$= 36.176 \ (36)$$

  2. Standard Error of Estimation

$$s_{XY} = s_Y \sqrt{1 - r_{XY}^2}$$

$$= 13.9181 \sqrt{1 - (.64)^2}$$

$$= 13.9181 \times .768$$

$$= 10.689$$

  3. Corrected Multiple-choice score

$$Sc = R - \frac{W}{C-1}$$

Example  R = 30

$$Sc = 30 - \frac{45}{4 - 1}$$

$$= 15$$

VITA

Name                    : Mr. Suphat Moolsun

Education Level : Graduated from the College of Education, Mahasarakam, with B.Ed. (Hons) in Secondary Education in 1970

Occupation        : an English teacher in Nakornsawan Teachers' College

ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย