CRITICAL REASONING TEST

PRELIMS

CODE: 5101

Max. Marks : 75   **Duration : 75 Mins.**

General   Instructions   :

Directions (Q. 1-5) : There are five persons, A, B, C, D and E. One is badminton player, one is chess player and one is tennis player. A and D an unmarried ladies and do not take part in any game. None of the ladies plays chess or badminton. There is a married couple in which E is a husband. B is the brother of C and is neither a chess player nor a tennis player.

1.   Who is the badminton player ?

a) A   b) B   c) C   d) D   e) E

2.   Who is the tennis player ?

a) A   b) B   c) C   d) D   e) E

3.   Who is the chess player ?

a) A   b) B   c) C   d) D   e) E

4.   Who is the wife of E ?

a) A   b) B   c) C   d) D

e) Insufficient information to predict.

5.   The three ladies are:

a) A, B and C   b) B, C and D   c) A, B and D

d) A, C and D   e) None of these

Directions (Q. 6-10) : In questions 6-10, there are two statements followed by two conclusions (i) and (ii). You have to take the two given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the two given statements disregarding commonly known facts. If only conclusion (i) follows, then mark (a) if only (ii) follows, then mark (b); if both (i) and (ii) follow, then mark (c); if either (i) or (ii) follows, then mark (d) and if neither (i) nor (ii) follows, then mark (e).

6.   Statements :   (1)   All lamps are poles.

(2)   Some poles are woods.

Conclusions :   (i)   Some lamps are woods.

(ii)   Some woods are poles.

7.   Statements :   (1)   Most tanks are guns.

(2)   Some guns are stones.

Conclusions :   (i)   Some stones are guns.

(ii)   Some tanks are stones.

8.   Statements :   (1)   All windows are boys.

(2)   All boys are desks.

Conclusions :   (i)   All Windows are desks.

(ii)   Some desks are not windows.

9. **Statements :** (1) All cards are cups.

      (2) No cup in glass.

   Conclusions : (i) All cups are cards.

      (ii) No card is glass.

10. **Statement :** (1) All chairs are houses.

      (2) Some shoes are houses.

   Conclusions : (i) Some chairs are shoes.

      (ii) Some shoes are chair.

Directions (Q. 11-15): In Questions 11-15 a conclusion is drawn from two given statements. Mark the conclusion as:

   a) If it necessarily follows from the two statements;

   b) If it is only a far-drawn conclusion;

   c) If it is in conflict with the two given statements;

   d) If it is doubtful.

11. **A: The sum of the angles of a triangle ABC is 180^0.**

   B: Angle A in triangle ABC is 110^0.

   Conclusion: Angle B is 35^0.

12. **A : Mohan is studying in a public shool.**

   B. Mohan is very intelligent.

   Conclusion: All public school children are sharp and intelligent.

13. **A: Goa is full of rivers.**

   B. Ferry service is available almost everywhere.

   Conclusion: Goa needs no river-bridges.

14. **A: The clerks are permanent government servants.**

   B. Ministers hold office for short tems.

   Conclusion: Clerks are senior to ministers.

15. A : Only those, who are allergic to mosquito repellent cream, use mosquito nets.

B : Mukesh uses mosquito net.

Conclusion: Mosquito repellent cream suits Mukesh.

Direction (Q. 16-25): These are based on a code language in which the words given in column I are written in column II. For each letter in column I, there stands a letter in column II. The letters in column II are not arranged in the same order as letters in column I. Find this code language and indicate the correct alternative from amongst the five alternatives for the italicized letter of the word given in each question.

	Column I		Column II
16.	NIGHT	(a)	f (b) t (c) g (d) a (e) j
17.	GRAND	(a)	k (b) g (c) m (d) i (e) j
18.	HERTZ	(a)	f (b) i (c) v (d) q (e) t
19.	SEPOY	(a)	c (b) v (c) x (d) y (e) h
20.	MOUTH	(a)	t (b) f (c) c (d) o (e) w
21.	ROUND	(a)	w (b) m (c) g (d) i (e) c
22.	SIXTH	(a)	h (b) b (c) t (d) f (e) a
23.	JUDGE	(a)	w (b) j (c) p (d) v (e) m
24.	SKATE	(a)	v (b) f (c) h (d) r (e) k
25.	PHONE	(a)	t (b) g (c) x (d) c (e) v

Directions (Q. 26-30): Select the lettered choice that bears almost the same relation to the word in small letters as exists between the capitalized words.

26. PEN : WRITING : : Rubber:

(a) Remover   (b) Erase

(c) Eraser   (d) Snub

27. **LANGUAGE : ALPHABET : : Number:**

(a) Figure   (b) Decimal

(c) Digit   (d) Arithmetic

28. **CANVASSING : ELECTION : : Advertisemment:**

(a) Market   (b) Marketing

(c) Popularity   (d) Business

29. **MAP : LOCATION : :**

(a) Country : Continent   (b) Dictionary : Meaning

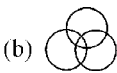(c) Food : Thought   (d) District : Field
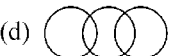
30. **HOLI : COLOUR : :**

(a) Diwali : Festival   (b) Diwali : Sweets

(c) Diwali : Lights   (d) Diwali : Gambling

31. **In a manufacturing concern, 60% of an item is produced by machine (1) and the remaining by machine (2) 10% of the item produced by either machine are defective. Which of the following diagrams represents these facts ? (Blank : Non-defective : Shaded : Defective).**

Directions (Q. 32–35): In following questions choose the diagram that best illustrates the relationship among the three classes.

(Note: Circles do not indicate the relative size of classes.)

32. Nurses, Mothers, Physicians

33. Aunts, Uncles, Ecologists

34. Hammers, Tools, Chisels

35. Science-fiction books, Biographies, Best - sellers

36. If SISTER is coded as, 1,; 5? UNCLES is codded as X0425 and SON is coded as, 70 then RESIST LETTER will be coded as

(a) ?5, 1,;   25; ;5?   (b) ?,51,;   25;;5?

(c) ?5,1,;   25;;?5   (d) 25;;?5   75,1;

37. In a certain code 'INDIA' is written as ONJIG,   LONDON is written as SOUDVN. DELHI and   ENGLAND will be written as

(a) JKRNO, MVOTIVL   (b) JERHO, KNMLGNJ

(c) JERHO, KNLLFNI   (d) JERHO, MNOLJNL

38. If 00 represents M, 01 represents N, 03 represents 0, 06 represents P, and so on, then SUN, POT and NOT are represented by

(a) 12 16 01;   06 03 14;   01 03 14

(b) 15 21 01;   06 03 18;   01 03 18

(c) 21 36 01;   06 03 28;   01 03 28

(d) 11 15 01;   05 03 13;   01 03 13

39. If 10 x 10 = 100, 11 x 100 = 10,000,101 x 100=11001, then 100 x 110 = ?

(a) 1100   (b) 111000

(c) 100100   (d) None of these

40. **The number 25 should be expressed in terms of the three digits 0, 1, 2 as**

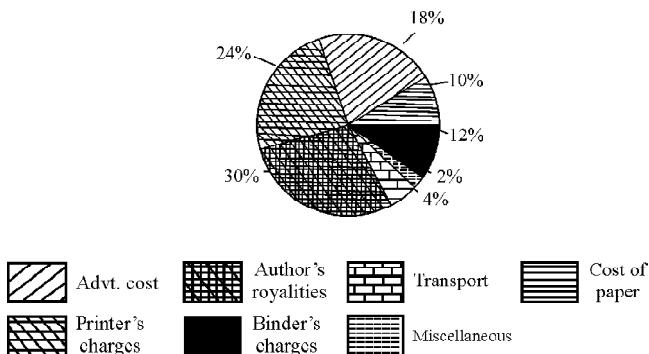(a) 11002   (b) 221

(c) 212   (d) 222

41. **Two circular wheels of the same radius 'r' have central hubs at a distance of 'a' from one another. The minimum length of a fan belt which will pass around both the wheels is :**

(a) $a + \dfrac{\pi r}{2}$ (b) $\dfrac{a + \pi r}{2}$

(c) $2a + \pi r$ (d) $2(a + \pi r)$

(e) Cannot be determined from the data

Directions (Q. 42-45): Following questions are based on the circle graph below, which shows the expenditure incurred, in bringing out a book, by a publisher. (The graph is not drawn to scale).

| | Advt. cost | | Author's royalities | | Transport | | Cost of paper |
| | Printer's charges | | Binder's charges | | Miscellaneous | | |

42. If the author's royalties amount to Rs.30,000 the binder's charges amount to Rs._____

(a) 6000   (b) 10500   (c) 12000

(d) 15000   (e) 18000

43. What should be the central angle of the sector for transportation charges ?

(a) 4^0 (b) 8.4^0 (c) 12.4^0

(d) 14.4^0 (e) 16^0

44. If the advertisement charges amount to Rs.18000, the total expenditure incurred in bringing out the book is Rs._____.

(a) 60300   (b) 63000   (c) 90000

(d) 100,000   (e) 45300

45. The miscellaneous expenditures amount to Rs.2000 and totally 12500 copies of the book are published. What is the cost per copy at which the books must be priced, if the publisher desires a profit of 5% ?

(a) Rs. 5   (b) Rs.7.50   (c) Rs. 8

(d) Rs.8.40   (e) 12.50

Directions (Q. 46-48): In each of the following question the last two letters are missing. The missing letters are given in a proper order as one of the alternatives among the five given under each question. Find the correct alternative in each case.

46. a r e s e t g _____

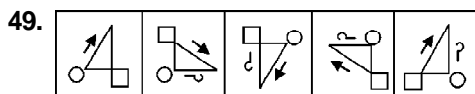(a) xz   (b) ui   (c) wy

(d) vb   (e) vi

47. h g f k j i n
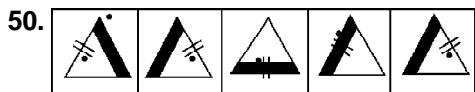
    (a) pr   (b) lp   (c) up

    (d) ml   (e) oq

48. e h j m o r t _____

    (a) pq   (b) uz   (c) wy

    (d) yw   (e) xy

49.

    (a)   **(b)**   **(c)**   **(d)**   **(e)**

50.

    (a)   **(b)**   **(c)**   **(d)**   **(e)**

Directions (Q. 51 to 55): Study the following information and answer the given questions:

    A word arrangement machine, when given an input line of words, rearranges them following a particular rule in each step. The following is an illustration of input and the steps of rearrangement.

    Input: Go for to Though By easy To Access at

    Step I: Access Go for to Though By easy To at

    Step II: Access at Go for to Though By easy To

    Step III: Access at By Go for to Though easy To

    Step IV: Accesss at By easy Go for to Though To

    Step V: Access at By easy for Go to Though To

    Step VI: Access at By easy for Go Though to To

    Step VII: Access at By easy for Go Though To To

    (and Step VII is the last step for this input)

As per the rules followed in the above steps, find out in the given questions the appropriate step for the given input.

51. Input : story For around on was He at

Which of the following will be Step IV for the given input?

(a) around at For He on was story

(b) around at For He on story was

(c) around at For He story on was

(d) around at He For story on was

(e) None of these

52. Input: every and peer to an for

Which of the following steps would be 'an and every for peer to' ?

(a) II   (b) III   (c) IV   (d) V

(e) None of these

53. Input: Together over series on feast the so

Which of the following steps will be the last but one?

(a) II   (b) III   (c) W   (d) V

(e) None of these

54. Input : Over Go For through at one

Which step number will be the last step of the above input ?

(a) III   (b) V   (c) VI   (d) VII

(e) None of these

55. The Step II of an input is as follows:

and Do pet to on that

Which of the following would definitely be the input?

(a) Do on pet to and that   (b) Do pet to and that on

(c) Do and pet to on that   (d) Cannot be determined

(e) None of these

Directions: (Q. 56-60): Each question given below consists of a statement followed by two arguments numbered I and II. You have to decide which of the arguments is a 'strong' argument and which is a 'weak' argument.

Give answer (a) if only argument I is strong; (b) if only argument II is strong; (c) if either I or II is strong; (d) if neither I nor II is strong and (e) if both I and II are strong.

56. **Statement :** Should the institution of marriage be abolished ?

    Arguments :

    I. Yes, It is already showing cracks.

    II. No, It is necessary for the survival of society.

57. **Statement :** Should health care service be nationalized ?

    Arguments:

    I. Yes, It has been done elsewhere also.

    II. No, The quality of health care service will deteriorate.

58. **Statement :** Should telecasting films be stoped?

    Arguments:

    I. Yes, Young children are misguided by feature films.

    II. No, This is the only way to educate the masses.

59. **Statement:** Should agriculture in rural India be mechanized?

    Arguments:

    I. Yes. It would lead to higher production.

    II. No. It would lead to rural unemployment.

60. **Statement:** Should the illiterate be debarred from voting?

    Arguments:

    I. Yes, They are easily misguided.

    II. No, It is their constitutional right.

Directions: (Q. 61 to 64) : Each question given below consists of a statement followed by two arguments numbered I and II. You have to decide which of the arguments is a 'strong' argument and which is a 'weak' argument.

Give answer (a) if only argument I is strong; (b) if only argument II is strong; (c) if either I or II is strong; (d) if neither I nor II is strong and (e) if both I and II are strong.

61. **Statement :** "I want to present a CD on techniques of yoga to Atul on his birthday" - *A tells B*.

    Assumptions:

    I. A will be invited by Atul on his birthday.

    II. The person to whom the book is to be presented, is not keeping good health.

    III. Book is an acceptable gift for birthday.

    (a) Only I and II are implicit

    (b) Only II and III are implicit

    (c) Only I and III are implicit

    (d) None is implicit

    (e) All are implicit

62. **Statement:** "Wanted a two bedroom flat in the court area for immediate possession" - *an advertisement.*

    Assumptions:

    I. Flats are available in court area.

    II. Some people will respond to the advertisement.

    III. It is a practice to give such an advertisement,

    (a) All are implicit   (b) Only II is implicit

    (c) None is implicit   (d) Only I and II are implicit

    (e) None of these

63. **Statement :** The situation of this area still continues to be tense and out of control. People are requested to be in their homes only.

   Assumptions :

   I. There had been some serious incidents.

   II. People will not go to the office.

   III. Normalcy will be restored shortly.

   (a) Only I is implicit   (b) Only I and II are implicit

   (c) None is implicit   (d) Only I and III are implicit

   (e) All are implicit

64. **Statement :** "Buy pure and herbal product of company A" - *an advertisement in a newspaper.*

   Assumptions:

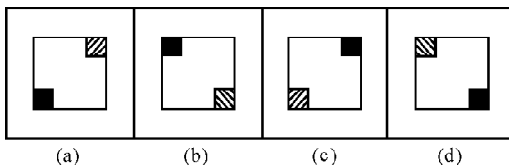   I. Artificial herbal products can be prepared.

   II. People do not mind paying more for pure and herbal product.

   III. No other compnay supplies herbal product.

   (a) Only I is implicit   (b) Only I and II are implicit

   (c) Only I and III are implicit   (d) All are implicit

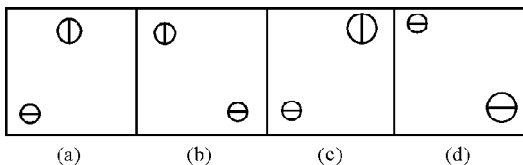   (e) None of these

Directions: (Q. 65 - 67) Given below are four figures. Three are alike in some manner. Find the odd one.
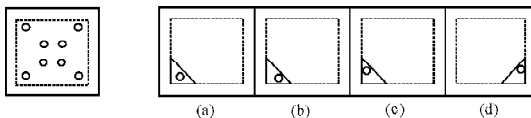
65. **Problem Figures**

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

66. Problem Figures
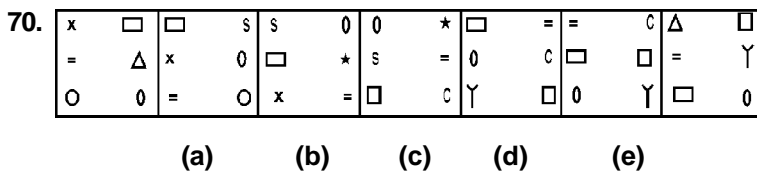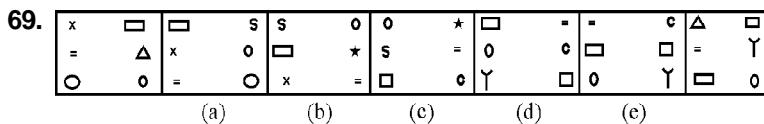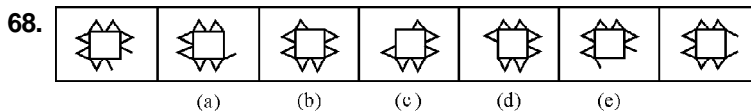

(a)   (b)   (c)   (d)

67. Problem Figures

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

Directions. (Q. 68-70): In each of the following questions, a series begins with unnumberred figures on the extreme left. One and only one of the five numbered figures in the series does not fit into the series. The two unnumbered figures, one each on the extreme left and the extreme right fit into the series. You have to take as many aspects into account as possible of the figures in the series and find out the one and only one of the five numbered figures which does not fit into the series. The number of the figure is the answer.

68.

(a)   (b)   (c)   (d)   (e)

69.

(a)   (b)   (c)   (d)   (e)

70.

(a)   (b)   (c)   (d)   (e)

KEY TO MODEL PAPER - I

1) b	2) c	3) e	4) c	5) d
6) e	7) e	8) a	9) b	10) e
11) b	12) b	13) d	14) c	15) c
16) c	17) e	18) d	19) c	20) b
21) d	22) b	23)	24) e	25) a
26) b	27) c	28) b	29) b	30) c
31) a	32) d	33) d	34) c	35) d
36) a	37) d	38) c	39) c	40) b
41) d	42) c	43) d	44) d	45) d
46) b	47) d	48) c	49) e	50) d
51) c	52) b	53) d	54) e	55) e
56) b	57) d	58) a	59) e	60) b
61) c	62) b	63) b	64) a	65) c
66) d	67) a	68) a	69) c	70) d