

SSC Combined Graduate Level (CGL)

PART-A: GENERAL INTELLIGENCE & REASONING

Directions (Qs. 1-3): In the following questions, select the related word pair from the given alternatives.

1. Power : Watt :: ? : ?
(a) Pressure : Newton (b) Force : Pascal
(c) Resistance : Mho (d) Work : Joule
2. NPBG : OQCH :: AJOT : ?
(a) BKPU (b) BUPK
(c) BHKP (d) HBKU
3. 101 : 10201 :: 107 : ?
(a) 10707 (b) 10749
(c) 11449 (d) 11407

Directions (Qs. 4-6): In the following questions, select the odd word from the given alternatives.

4. (a) Lion (b) Leopard
(c) Snake (d) Tiger
5. (a) NPR (b) TVW
(c) FHJ (d) KMO
6. (a) 69 (b) 59
(c) 61 (d) 53
7. Arrange the given words in the sequence in which they occur in the dictionary.
(1) Ropped (2) Roster
(3) Roasted (4) Road
(5) Roller
(a) 35412 (b) 45312
(c) 34512 (d) 43512
8. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
BCF, CDG, DEH, ?
(a) EFI (b) EFG
(c) DFT (d) EGI
9. In the following question, select the missing number from the given series.
2, 5, 12, 27, ?
(a) 53 (b) 56

(c) 57

(d) 58

10. If 'P 3 Q' and 'P is daughter of Q', 'P 5 Q' means 'P is father of Q', 'P 7 Q' means P is mother of Q' and 'P 9 Q' means 'P is sister of Q', then how is J related to K in J3L9N35K?

(a) Mother

(b) Wife

(c) Niece

(d) Daughter

11. Rakhi got engaged 10 years ago. Rakhi's present age is $\frac{5}{3}$ of her age at the time of engagement. If the present age of Rakhi's mother is twice that of present age of Rakhi, then what was her mother's age (in years) at the time of her engagement.

(a) 50

(b) 40

(c) 30

(d) 60

12. In the following question, from the given alternative words, select the word which cannot be formed using the letters of the given word.

Suspensefulness

(a) Sense

(b) Fuels

(c) Useful

(d) Fullness

13. In a certain code language, "BAD" is written as "7" and "SAP" is written as "9". How is "BAN" written in that code language?

(a) 8

(b) 3

(c) 4

(d) 6

14. In the following question, correct the equation by interchanging two signs.

$$9 \times 3 + 8 \div 4 - 7 = 28$$

(a) $\times$ and $-$

(b) $+$ and $-$

(c) $+$ and $\times$

(d) $\times$ and $\div$

15. If $4 * 5 \% 3 = 8000$ and $2 * 3 \% 2 = 36$, then $4 * 3 \% 3 = ?$

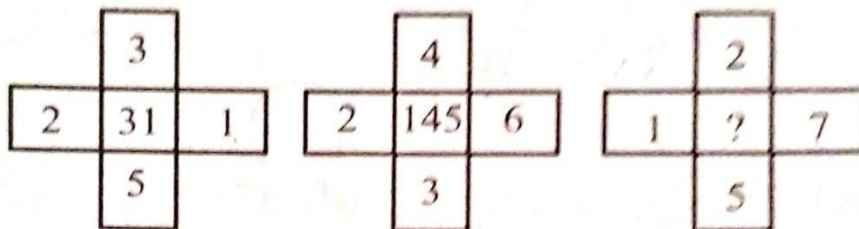
(a) 432

(b) 1728

(c) 36

(d) 144

16. In the following question, select the number which can be placed at the sign of question non marking the given alternatives.



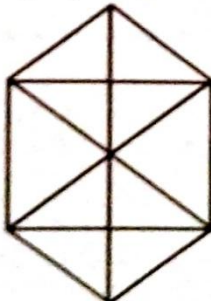
(a) 43

(b) 49

(c) 59

(d) 71

17. How many triangles are there in the given figure?



- (a) 20 (b) 22 (c) 28 (d) 32

18. In each of the following question below are given some statements followed by some conclusions. Taking the given statements to be true even if they seem to be at variance from commonly known facts, read all the conclusions and then decide which of the given conclusion logically follows the given statements.

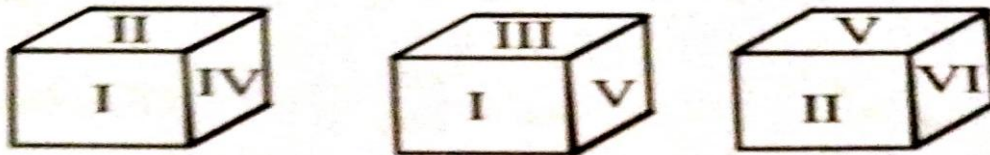
Statements:

- I. Some pens are pencils.
II. All pencils are erasers.

Conclusions:

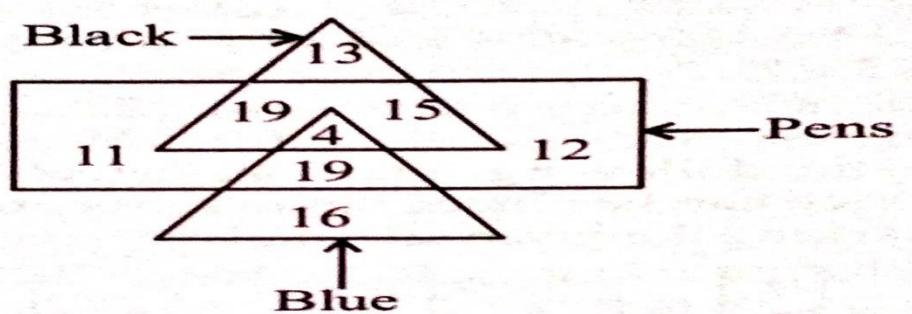
- I. Some pens are erasers.
II. No pens are erasers.
III. Some erasers are pencils.
(a) Only conclusion (II) follows.
(b) Only conclusion (I) and (II) follow
(c) Only conclusion (I) and (III) follow.
(d) No conclusion follows.

19. Three positions of a cube are shown below. What will come opposite to face containing (1)?



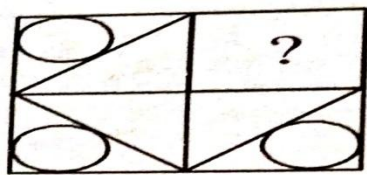
- (a) VI (b) IV
(c) II (d) V

20. In the given figure, how many pens are blue?

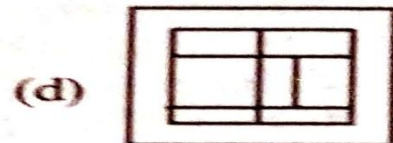
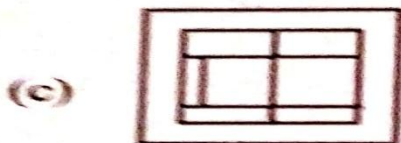
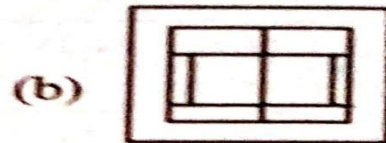
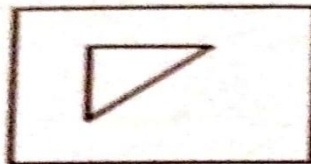


- (a) 23 (b) 19 (c) 12 (d) 15

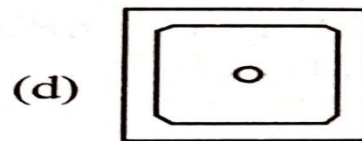
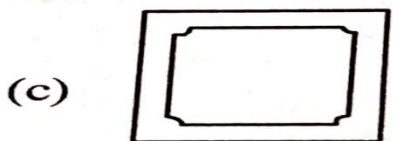
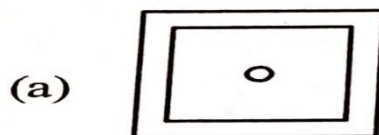
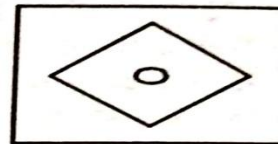
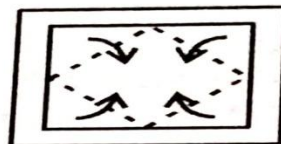
21. Which answer figure will complete the pattern in the question figure?



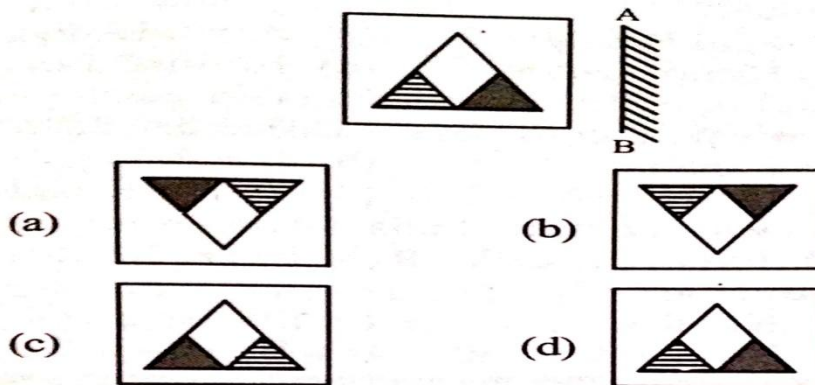
22. From the given answer figures, select the one in which the question figure is hidden/embedded



23. A piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened?



24. If a mirror is placed on the line AB, then which of the answer figures is the right image of the given figure?



25. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of **Matrix-I** are numbered from 0 to 4 and that of **Matrix-II** are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column for example 'K' can be represented by 01, 34 etc and 'P' can be represented by 65, 99 etc. Similarly, you have to identify in set for the word "BLAND"

Matrix – I						Matrix– II					
	0	1	2	3	4		5	6	7	8	9
0	A	K	B	L	C	5	N	O	P	S	D
1	B	A	C	K	L	6	P	D	S	N	O
2	L	C	K	B	A	7	O	P	N	D	S
3	C	B	L	A	K	8	D	S	O	P	N
4	K	L	A	C	B	9	S	N	D	O	P

- (a) 10,14,00,68,79
(b) 31,41,33,96,86
(c) 44,20,42,88,59
(d) 23,32,24,55,66

PART-B: GENERAL AWARENESS

26. At which rate, Reserve Bank of India borrows money from commercial banks?
- (a) Bank Rate
(b) Repo Rate
(c) Reverse Repo Rate
(d) Statutory Liquidity Rate
27. Movement along the supply curve is known as _____.
- (a) Contraction of supply
(b) Expansion of supply
(c) Increase in supply
(d) Expansion and contraction of supply

28. What is the minimum age required to become vice-president of India?
(a) 30 years (b) 35 years
(c) 40 years (d) 37 years
29. Which of the following "writ" of the High Court or the Supreme Court is issued to restrain a person from holding a public office which he is not entitled to?
(a) Certiorari (b) Mandamus
(c) Prohibition (d) Quo Warranto
30. Who was the son of Chandragupta Maurya?
(a) Bindusara (b) Chandragupta II
(c) Ashoka (d) Binbsara
31. Which dynasty came to power in India after the Tughlaq dynasty?
(a) The Guptas (b) The Khiljis
(c) The Mughals (d) The Sayyids
32. Which planet is considered as the Dwarf planet?
(a) Earth (b) Jupiter
(c) Pluto (d) Saturn
33. Sandstone is which type of rock?
(a) Calcareous Rock (b) Igneous Rock
(c) Metamorphic Rock (d) Sedimentary Rock
34. Wheat is a _____.
(a) Creeper (b) Herb
(c) Shrub (d) Tree
35. Snakes, turtle, lizards and crocodiles falls under which category of animals?
(a) Pisces (b) Amphibian
(c) Reptilian (d) Aves
36. Which of the following instrument is used to measure Soil Water Tension?
(a) Photometer (b) Pyrometer
(c) Psychrometer (d) Tensiometer
37. What is the SI unit of Force?
(a) Pascal (b) Boyle
(c) Newton (d) Watt
38. Which one of the following is a bad Thermal Conductor?
(a) Aluminium (b) Copper
(c) Glass (d) Silver
39. Which of the following stores data permanently in a computer?

- (a) ALU
- (b) Cache Memory
- (c) RAM
- (d) ROM

40. Rusting is_____.

- (a) Electrolysis
- (b) Oxidation
- (c) Redox reaction (Oxidation and Reduction)
- (d) Reduction

41. Which amongst the following is not a Cation?

- (a) Aluminium ion
- (b) Copper ion
- (c) Sulphate ion
- (d) Zinc ion

42. Which of the following is not a component of Smog?

- (a) Volatile organic compounds
- (b) Nitrogen Oxide
- (c) Sulphur dioxide
- (d) Chlorine oxide

43. NITI Aayog has been formed to replace which of the following institution?

- (a) Planning Commission
- (b) IRDA
- (c) Department of Telecommunications (DoT)
- (d) Department of Information Technology

44. Who invented first working laser?

- (a) A. H. Taylor
- (b) W. K. Roentgen
- (c) T. H. Maiman
- (d) Fred Morriession

45. Which of the following venue hosted its first ever test match on 9th November, 2016 which was played between India and England?

- (a) JSCA International Stadium complex, Ranchi
- (b) Saurashtra Cricket Association Stadium, Rajkot
- (c) Himachal Pradesh Cricket Association Stadium, Dharamshala
- (d) Holkar Cricket Stadium, Indore

46. Match the following:

- | Artist | Art form |
|--------------------------|------------------------|
| 1. Gori Shankar Devilal | a. Flute |
| 2. Hari Prasad Chaurasia | b. Painting |
| 3. M. F. Hussain | c. Kathak |
| 4. Zakir Hussain | d. Tabla |
| (a) 1-a, 2-d, 3-b, 4-c | (b) 1-b, 2-c, 3-a, 4-d |
| (c) 1-c, 2-a, 3-b, 4-d | (d) 1-c, 2-b, 3-a, 4-d |

47. Who is the only Indian cricketer to have received the Polly Umrigar award 3 times?

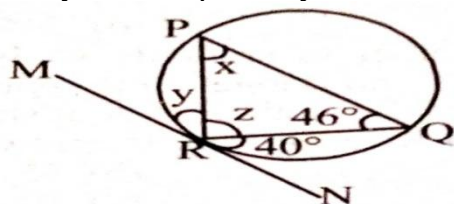
- (a) Sachin Tendulkar
- (b) Virender Swag
- (c) Virat Kohli
- (d) Ravichandran Ashwin

48. Who is the author of the book titled "The Sellout"?
- (a) Paul Beatty (b) Arvind Adiga
(c) Elenor Catton (d) Howard Jacobson
49. Which country was designated as the major defence partner of USA in December, 2016?
- (a) Canada (b) Israel
(c) India (d) United Kingdom
50. With which country India did its seventh edition of bilateral EKVVERIN Exercise 2016 at Kadhdhoo?
- (a) Nepal (b) Pakistan
(c) Maldives (d) Bhutan

PART-C: QUANTITATIVE APTITUDE

51. If X and Y are the two digits of the number 347XY such that the number is completely divisible by 80, then what is the value of X + Y?
- (a) 2 (b) 4
(c) 6 (d) 8
52. A, B and C can complete a work in 20, 24 and 30 days respectively. All three of them starts together but after 4 days A leaves the job and B left the job 6 days before the work was completed. C completed the remaining work alone. In how many days was the total work completed?
- (a) 10 (b) 12 (c) 14 (d) 16
53. A solid sphere of diameter 17.5 cm is cut into two equal, halves. What will be the increase (in cm^2) in the total surface area?
- (a) 289 (b) 361.5
(c) 481.25 (d) 962.5
54. After a discount of 34% an article is sold for ₹3168. What is the marked price (in) of the article?
- (a) 4750 (b) 4800
(c) 4850 (d) 5000
55. If $(\frac{3}{7})P = (\frac{4}{11})Q$, then what is the ratio of P and Q respectively?
- (a) 12:77 (b) 12:33
(c) 28:33 (d) 3:28
56. The average of 17 results is 60. If the average of first 9 results is 57 and that of the last 9 results is 65, then what will be the value of 9th result?
- (a) 39 (b) 78 (c) 117 (d) 156

57. For an article the profit is 170% of the cost price. If the cost price increases by 20% but the selling price remains same, then what is the new profit percentage?
 (a) 41 (b) 50 (c) 75 (d) 125
58. 32% of a number exceeds 17% of the same number by 120. What is the value of the number?
 (a) 900 (b) 860 (c) 940 (d) 800
59. A boat goes 15 km upstream and $10\frac{1}{2}$ km downstream in 3 hours 15 minutes. It goes 12 km upstream and 14 km downstream in 3 hours. What is the speed of the boat in still water?
 (a) 4 (b) 6 (c) 10 (d) 14
60. A person lent certain sum of money at 5% per annum simple interest and in 15 years the interest amounted to ₹250 less than the sum lent. What was the sum lent (in ₹)?
 (a) 1000 (b) 1500 (c) 2400 (d) 3000
61. If $x = \frac{(2 + \sqrt{3})}{(2 - \sqrt{3})}$, then what is the value of $x + \frac{1}{x}$?
 (a) 14 (b) $8\sqrt{3}$ (c) 0 (d) 18
62. If $x = 2 + \sqrt{3}$, then what is the value of $\sqrt{2x} + \frac{1}{\sqrt{2x}}$?
 (a) $2\sqrt{3}$ (b) $3\sqrt{3}$
 (c) $(3\sqrt{3} + 1) / 2$ (d) $2\sqrt{3} + 1$
63. If $x + \frac{1}{x} = 4$, then what is the value of $x^6 + \frac{1}{x^6}$?
 (a) 52 (b) 256
 (c) 1026 (d) 2702
64. If $y = \frac{(-1 - x)}{(1 + 1 - x)}$, then what is the value of $\frac{1}{(y + 1)} + \frac{(2y + 1)}{(y^2 - 1)}$?
 (a) $\frac{((1 + x)(2 - x))}{(2x - 1)}$ (b) $\frac{((1 - x)(2 + x))}{(x - 1)}$
 (c) $\frac{((1 + x)(2 - x))}{(1 - 2x)}$ (d) $\frac{((1 + x)(1 - 2x))}{(2 - x)}$
65. In the triangle ABC, $\angle BAC = 50^\circ$ and the bisectors of $\angle ABC$ and $\angle ACB$ meet at P. What is the value (in degrees) of $\angle BPC$?
 (a) 100 (b) 105 (c) 115 (d) 125
66. Two circles of same radius intersect each other at P and Q. If the length of the common chord is 30 cm and distance between the centres of the two circles is 40 cm, then what is the radius (in cm) of the circles?
 (a) 25 (b) $25\sqrt{2}$ (c) 50 (d) $50\sqrt{2}$
67. In the given figure, $\angle QRN = 40^\circ$, $\angle PQR = 46^\circ$ and MN is a tangent at R. What is the value (in degrees) of x, y and z respectively?



- (a) 40,46,94 (b) 40,50,90
(c) 46,54,80 (d) 50,40,90

68. In $\triangle PQR$, $\angle R = 54^\circ$ the perpendicular bisector of PQ at S meets QR at T. If $\angle TPR = 46^\circ$ then what is the value (in degrees) of $\angle PQR$?

- (a) 25 (b) 40 (c) 50 (d) 60

69. What is the simplified value of $(\cot A + \tan B)/(\cot B + \tan A)$?

- (a) $\tan B \cot A$ (b) $\tan A \cot B$
(c) $\tan A \tan B$ (d) $\cot A \cot B$

70. What is the simplified value of $(1/(\operatorname{cosec} A + \cot A))^2$

- (a) $\sec A + \tan A$ (b) $(1 - \cos A) / (1 + \cos A)$
(c) $(1 - \cos A) / (1 + \operatorname{cosec}(A))$ (d) $\sin A$

71. If $\cos^2 \theta - \sin \theta = 1/4$ then what is the value of $\sin \theta$?

- (a) -1 (b) $1/2$ (c) 1 (d) $3/2$

Directions (Qs. 72-75): Study the following table carefully to answer these questions:

Number of Students Studying Five Different Disciplines From Five Institutes					
Institute	Discipline				
	Arts	Commerce	Science	Management	Computer science
A	350	260	450	140	300
B	240	320	400	180	320
C	460	300	360	160	380
D	440	480	420	120	340
E	280	360	340	200	330

72. What is the average number of students studying Commerce from all the Institutes together?

- (a) 356 (b) 360
(c) 348 (d) 344

73. Total number of students studying Arts from Institutes A and B together is approximately what per cent of the total number of students studying computer Science from these two Institutes?

- (a) 84 (b) 95
(c) 88 (d) 90

74. What is the ratio between total number of Students studying Science from Institutes C and D together and the total number of students studying Computers Science from these two Institutes together respectively?

- (a) 13:12 (b) 12:13
(c) 13:15 (d) 15:13

75. What is the average number of students studying all disciplines together from institute E?
(a) 312 (b) 310
(c) 302 (d) 304

PART-D ENGLISH COMPREHENSION

Directions (Qs. 76 & 77): *In the following questions, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error select 'No Error'.*

76. The two men were (1)/ quarrelling with one another (2)/ claiming the same watch as their own. (3)/ No Error (4).
(a) 1 (b) 2 (c) 3 (d) 4
77. Everybody knows (1)/ that Bhutan is the most peaceful (2)/ of all other countries of the world. (3)/No Error (4)
(a) 1 (b) 2 (c) 3 (d) 4

Directions (Qs. 78 & 79): *In the following questions, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.*

78. The higher you climb, the more difficult it _____ to breathe.
(a) became (b) becomes
(c) has become (d) is becoming
79. Neha has been crying _____ morning.
(a) from (b) of
(c) since (d) till

Directions (Qs. 80 & 81): *In the following questions, out of the four alternatives, select the word similar in meaning to the word given*

80. Opulent
(a) Fake (b) Gloomy
(c) Rich (d) Selfish
81. Morose
(a) Flatter (b) Gloomy
(c) Friendly (d) Savvy

Directions (Qs. 82 & 83): *In the following questions, out of the four alternatives, select the word opposite in meaning to the word given.*

82. Irk

- (a) Attract
- (b) Discourage
- (c) Irritate
- (d) Please

83. Grotesque

- (a) Free
- (b) Odd
- (c) Plain
- (d) Queer

Directions (Qs. 84 & 85): *In the following questions out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.*

84. To keep the wolf from door

- (a) Avoid starvation
- (b) Crack the deal
- (c) Entry Prohibited
- (d) Have a pleasant tour

85. Teething problems

- (a) Oral problems
- (b) Problems at the start of a new project
- (c) Problems for quite a long time in adjusting in the new place
- (d) Problem of having good dentist.

Directions (Qs. 86 & 87): Improve the bracketed part of the sentence.

86 She did not like to have coffee (**nor I did**).

- (a) neither I liked it
- (b) nor did I
- (c) nor I like it
- (d) No improvement

87. Taj Mahal is (**a worth seeing monument**) in Agra.

- (a) a monument to see its worth
- (b) a monument worth seeing
- (c) one of worth seeing monuments
- (d) No improvement

Directions (Qs. 88 & 89): *In the following questions, of the four alternatives, select the alternative which is the best substitute of the phrase.*

89. That which cannot be corrected

- (a) Impregnable
- (b) Immolation
- (c) Incurable
- (d) Ineligible

90. A person who is blamed for the wrong doings of others

- (a) Bursar
- (b) Captor
- (c) Phlegmatic
- (d) Scapegoat

Directions (Qs. 90 & 91): *In the following questions four words are given out of which one word is incorrectly spelt. Select the incorrectly spelt word.*

90. (a) Conceive (b) Leisure
(c) Neice (d) Reign
91. (a) Dictionary (b) Irrelevant
(c) Perishable (d) Tangible

Directions (Qs. 92 & 93): *The questions below consist of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.*

92. P- It had been umpteen years since we had seen each other
Q- One dull dark in autumn, I was travelling on horseback through a dreary stretch of countryside.
R- This was the house of Roderick Usher, who had been my childhood pal.
S- At night fall, I came in sight of the house of Usher.
(a) PQSR (b) PSQR
(c) QSRP (d) QRSP
93. P- According to various estimates between 1942 and 1944 there were approximately 400 victims of this practice daily in Warsaw alone, with numbers on some days reaching several thousands.
Q- A common German practice in occupied Poland was to roundup random civilians on the streets of Polish cities.
R- For example, on 19th September 1942 close to 3000 men and women were transported by train to Germany- they had been caught in the massive round- ups all over Warsaw the previous two days.
S- The term, "lapanka" carried a sardonic connotation from the word's Earlier use for the children's game known in English as "tag".
(a) SQRP (b) SRPQ
(c) QSPR (d) QPRS
94. In the following question, a sentence has been given in Active/Passive voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active voice.
An elephant may be helped even by a ant.
(a) An ant can even help a elephant.
(b) An ant may even help a elephant.
(c) Even an ant may help an elephant.
(c) Even an ant ought to help an elephant.
95. In the following question, a sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Direct/ Indirect Speech.
"Please don't cry" he said.
(a) He begged that I should not cry
(b) He begged me not to cry.
(c) He said to please him and not cry.

(d) He told me to not to cry

Directions (Qs. 96-100): In the following questions, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

The 96 of lectures could be enhanced by introducing the lecture with a brief review of the work 97 it should also be indicated how the day's lecture 98 into the course pattern. A lecture should 99 be presented in one unbroken discourse. Unless exceptionally interesting, a long lecture strains the 100 of a concentrated listening, causing intermittent wandering of attention and loss of continuity in thought.

- | | |
|----------------------|-------------------|
| 96. (a) condition | (b) effectiveness |
| (c) efficiency | (d) interest |
| 97. (a) ascending | (b) preceding |
| (c) reciting | (d) succeeding |
| 98. (a) adds | (b) fits |
| (c) gets | (d) lets |
| 99. (a) continuously | (b) often |
| (c) randomly | (d) seldom |
| 100. (a) authority | (b) capacity |
| (c) comfortability | (d) reasonability |