

GENERAL INTELLIGENCE

- Select the related word from the given alternatives :
India : Tiger :: Nepal : ?
(1) Peacock (2) Dolphin
(3) Tiger (4) Cow
- Select the related letters from the given alternatives :
DANGEROUS : SUOREGNAD :: ? : RETHGUAD
(1) DAUGGARD
(2) DAUGHTER
(3) DORMANT
(4) DAUGHTRE
- Select the related letters from the given alternatives :
APPEAR : FUUJFW :: GRIND : ?
(1) LWNSI (2) ISNWL
(3) LNWSI (4) LINWS
- Select the related number from the given alternatives :
9 : 738 :: 10 : ?
(1) 1200 (2) 1001
(3) 1100 (4) 1010
- Select the odd word from the given alternatives :
(1) Elephant (2) Giraffe
(3) Cow (4) Hen
- Select the odd letters from the given alternatives :
(1) AG (2) CE
(3) BF (4) GF
- Select the odd number from the given alternatives :
(1) 23498 (2) 9494
(3) 6946 (4) 15578
- Select the odd number from the given alternatives :
(1) 1541 (2) 4096
(3) 1331 (4) 4913
- A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series :
Jaipur, Rajasthan, India, ?
(1) Europe (2) Antarctica
(3) Asia (4) Australia

- A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
YXW, TSR, NML, ?
(1) EFG (2) GFE
(3) FEG (4) HGF
- A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
B, D, H, P, ?
(1) E (2) D
(3) C (4) F
- A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
8, 27, 125, 343, ?
(1) 1000 (2) 729
(3) 1331 (4) 1728
- In the following question, two statements are given followed by two Conclusions I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given Conclusions, if any, follows from the given statements.
Statements :
I. Sohan is a good sportsman.
II. Sportsmen are healthy.
Conclusions :
I. All healthy people are sportsmen.
II. Sohan is healthy.
(1) Conclusion I follows
(2) Conclusion II follows
(3) Neither I nor II follows
(4) Both I and II follow
- Priya, Juhi, Amit, Nitin and Ram are five friends studying in the same class. Juhi scores higher marks than Ram but lesser than Priya. Nitin scores the highest and Ram scores

the lowest marks. If Amit secures second rank out of the five, who stands at the third position?

- (1) Ram (2) Juhi
(3) Priya (4) Nitin
- Arrange the given words in the sequence in which they occur in the dictionary :
i. Garbage
ii. Garrulous
iii. Gabber
iv. Garble
(1) i, iii, iv, ii
(2) iii, iv, i, ii
(3) iii, i, iv, ii
(4) i, iv, iii, ii
 - In a certain code language, "READ" is written as "18514". How is "RATE" written in that code language?
(1) 181520
(2) 181025
(3) 181205
(4) 181914
 - In the following question, select the missing number from the given alternatives :

17	15	13
8	?	11
353	274	290

(1) 4 (2) 8
(3) 9 (4) 7
 - If "A" means "minus", "B" means "divided by", "C" means "plus" and "D" means "multiplied by", then
54 B 6 A 4 C 2 D 5 = ?
(1) 15 (2) 21
(3) 16 (4) 18
 - Which set of letters when sequentially placed at the gaps in the given letter series shall complete it?
a_b_cc_a_b_c
(1) ababc (2) aacbb
(3) abcab (4) abbcc

20. Preetam cycles 6 km. towards the south direction. He turns right to move 8 km. and again turns towards the north-east to move 10 km. From there, he moves 15 km on the left. How far is he from his original position?

- (1) 15 km (2) 10 km
(3) 55 km (4) 65 km

21. 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 alphabet 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, 'D' can be represented by 01, 10, etc. and 'R' can be represented by 34, 22, etc. Similarly, you have to identify the set for the word **DREAM**.

Matrix-I

	0	1	2	3	4
0	A	D	Q	M	R
1	D	T	W	R	W
2	S	H	R	B	E
3	F	R	E	V	R
4	R	E	G	C	F

Matrix-II

	5	6	7	8	9
5	H	E	Z	A	T
6	E	G	A	D	Y
7	K	A	X	G	M
8	A	B	C	M	W
9	K	V	M	H	Q

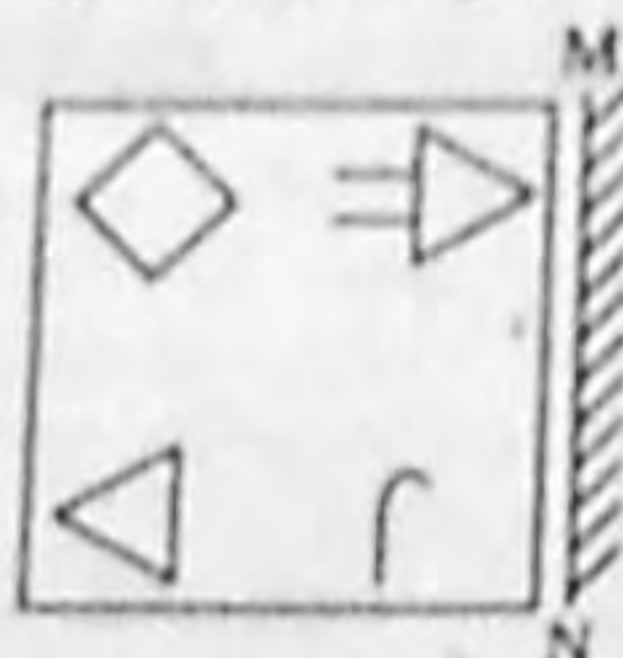
- (1) 98, 40, 85, 19, 20
(2) 01, 04, 42, 76, 98
(3) 68, 34, 24, 00, 88
(4) 11, 04, 24, 41, 88

Introducing a girl, Raju says, "She is the daughter of my grandfather's son's daughter". How is the girl related to Raju?

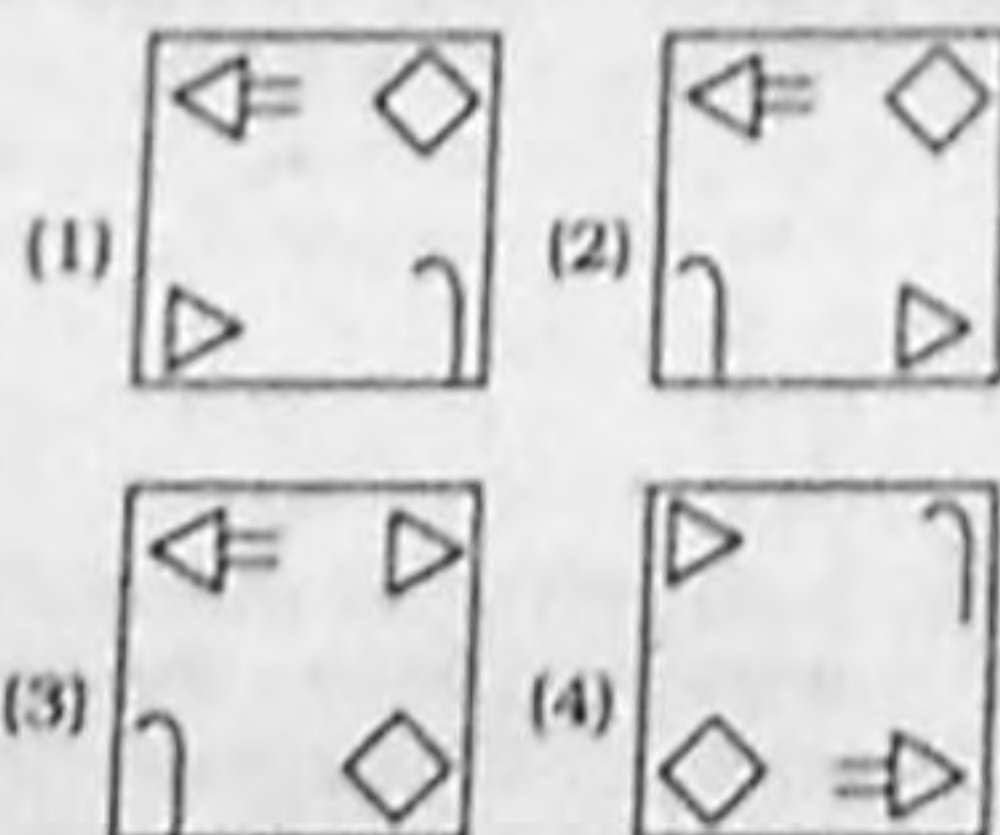
- (1) Cousin (2) Wife
(3) Sister (4) Niece

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

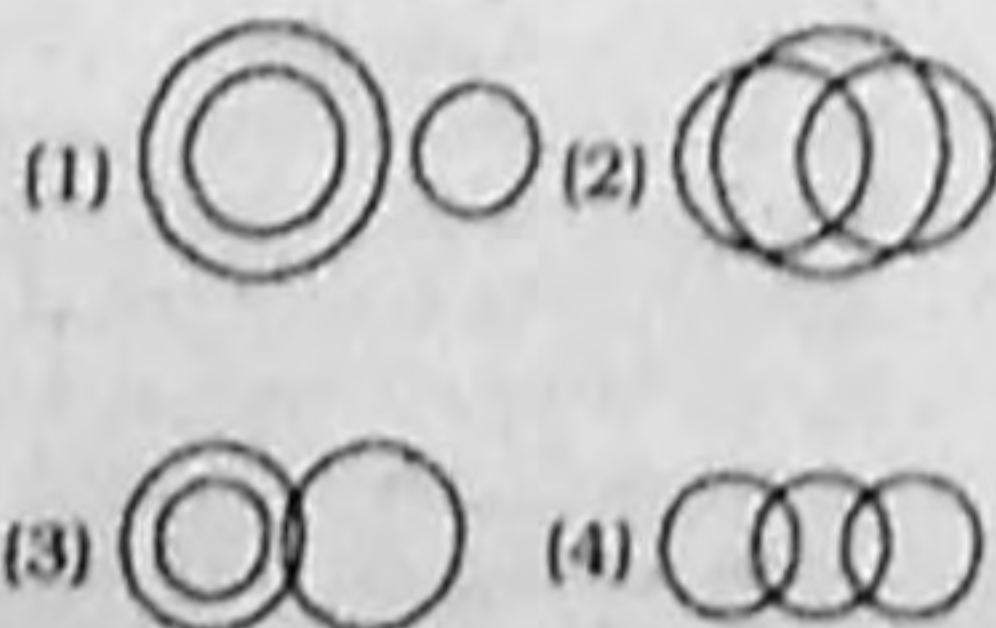
Question Figure :



Answer Figures :



24. Identify the diagram that best represents the relationship among the given classes : Earth, Planets, Moon

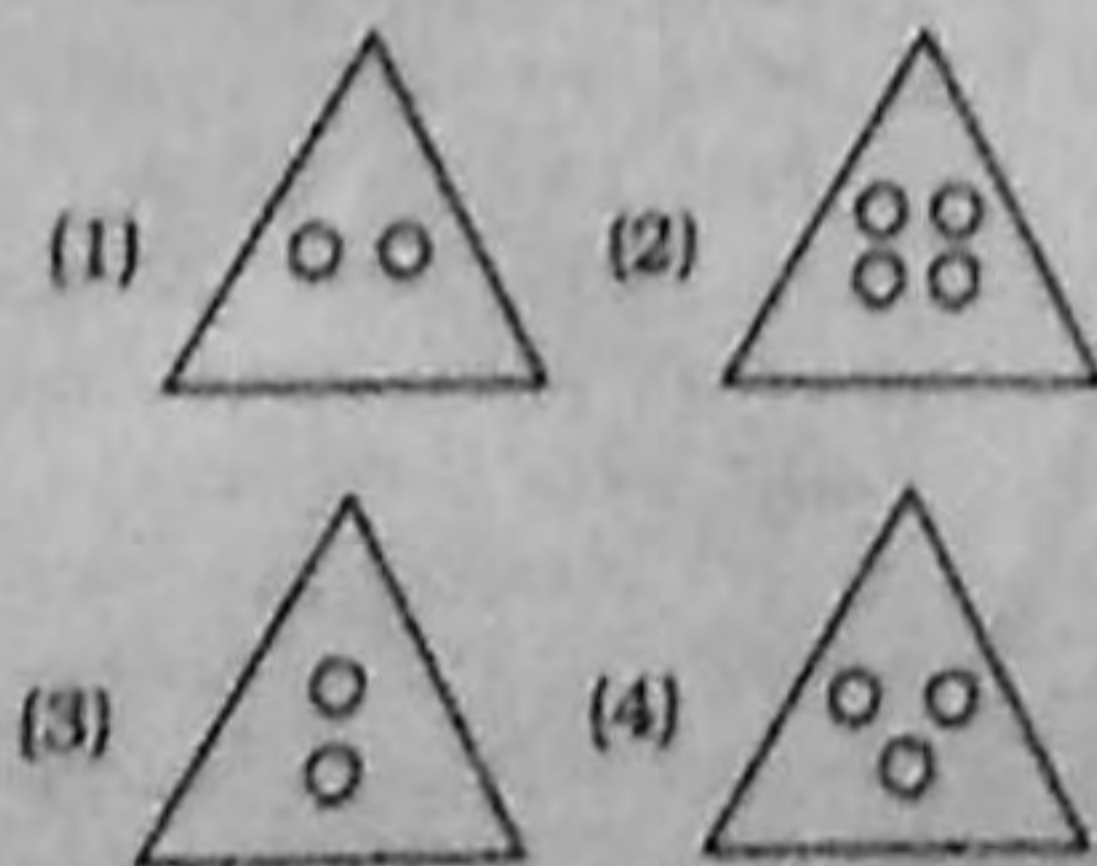


25. A piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

Question Figures :



Answer Figures :



26. Which world heritage site comprises of the Alai Darwaza Gate?

- (1) Humayun's Tomb
(2) Mahabodhi Temple Complex
(3) Qutub Minar
(4) Red Fort Complex

27. Highest Civilian Honour received by Azim Premji is

- (1) Padma Shri
(2) Padma Bhushan
(3) Padma Vibhushan
(4) Bharat Ratna

28. Which drug is used as an Anti-Diabetic drug?

- (1) Metformin
(2) Zolpidem
(3) Promethazine
(4) Hydralazine

29. Photosynthesis takes place inside plant cells in _____

- (1) Ribosomes
(2) Chloroplasts
(3) Nucleus
(4) Mitochondria

30. _____ is the cell organelle, in which the biochemical processes of respiration and energy production occur.

- (1) Mitochondria
(2) Chloroplast
(3) Ribosomes
(4) Nucleus

31. LPG is a mixture of _____

- (1) methane and butane
(2) butane and propane
(3) methane and propane
(4) ethane and propane

32. What happens when one S and one P orbital are hybridized?

- (1) We get three orbitals in a plane
(2) We get two orbitals at 180 degrees
(3) We get two mutually perpendicular orbitals
(4) We get four orbitals directed tetrahedrally

33. A formal language used to express information or knowledge, often for use in computer system design is :

- (1) Command Language
 (2) Machine Language
 (3) Markup Language
 (4) Modelling Language
34. Konkani is the official language of _____
 (1) Chandigarh
 (2) Dadra and Nagar Haveli
 (3) Daman and Diu
 (4) Delhi
35. If demand curve for racing cycles is $D = 80200 - 13P$ and supply curve is $S = 6200 + 12P$, what is the equilibrium Quantity?
 (1) 2960 units
 (2) 31220 units
 (3) 8750 units
 (4) 41720 units
36. Match the characteristics with their market structure :
 (a) MC = Price
 (b) Firm will tend to set output so that it earns maximum profits.
 (1) (a) Pure Competition, (b) Pure Monopoly
 (2) (a) Pure Monopoly, (b) Monopolistic Competition
 (3) (a) Oligopoly, (b) Monopolistic Competition
 (4) (a) Pure Competition, (b) Oligopoly
37. To which habitat is the turtle Petri adapted?
 (1) Desert (2) Forest
 (3) Sea (4) Marshes
38. Bandipur National Park is in which State?
 (1) Madhya Pradesh
 (2) Rajasthan
 (3) Karnataka
 (4) Chhattisgarh
39. Which is the first newspaper of India?
 (1) Bombay Gazette
 (2) Bengal Gazette
 (3) Bombay Times
 (4) Hindustan Times
40. Which State in India has the longest coastline?
 (1) Kerala
 (2) Tamil Nadu
 (3) Maharashtra
 (4) Gujarat

41. London is the Capital City of
 (1) Philippines
 (2) Maldives
 (3) Spain
 (4) United Kingdom
42. Adolf Hitler was from _____
 (1) France (2) Germany
 (3) United Kingdom
 (4) Spain
43. Babur (1526-1530 AD) was the ruler of which dynasty?
 (1) Mughal (2) Nanda
 (3) Maurya (4) Haryanka
44. What did J. B. Dunlop invent?
 (1) Pneumatic rubber tyre
 (2) Car Music System
 (3) Steering Wheel
 (4) Diesel Engine
45. When net torque is zero, _____ will be constant.
 (1) force
 (2) angular momentum
 (3) linear momentum
 (4) acceleration
46. Newton's first law is also known as _____
 (1) Law of Friction
 (2) Law of Momentum
 (3) Law of Inertia
 (4) Law of Motion
47. The tenure of the members of Lok Sabha is for how many years?
 (1) 11 (2) 9
 (3) 7 (4) 5
48. Article 41 of the Indian Constitution "Right to work, to education and to public assistance in certain cases" deals with :
 (1) the Union Government
 (2) the Directive Principles of State Policy
 (3) the State Government
 (4) the Fundamental Rights of the Indian citizens
49. Anju Bobby George is associated with which game?
 (1) Shooting (2) Athletics
 (3) Chess (4) Cricket
50. Who wrote the book - "The Test of My Life"?
 (1) Yuvraj Singh
 (2) Sachin Tendulkar
 (3) Brian Lara
 (4) Adam Gilchrist

QUANTITATIVE APTITUDE

51. The price of an article is cut by 31%, to restore to its original value, the new price must be increased by
 (1) 66 per cent
 (2) 44.93 per cent
 (3) 39.76 per cent
 (4) 82.5 per cent
52. If $\cot 240^\circ = x$, then the value of x is
 (1) -1 (2) $\frac{-1}{\sqrt{3}}$
 (3) $\frac{1}{\sqrt{3}}$ (4) $-\sqrt{3}$
53. Akka can bake 100 cakes in 20 hours, Akka and Tai together can bake 75 cakes in 10 hours. How many cakes Tai can bake in 20 hours?
 (1) 25 (2) 50
 (3) 30 (4) 75
54. Among three numbers, the first is twice the second and thrice the third. If the average of three numbers is 396, then what is the difference between the first and the third number?
 (1) 594 (2) 448
 (3) 432 (4) 453
55. The point Q (a, b) is first reflected in y-axis to Q1 and Q1 is reflected in x-axis to (-5, 3). The co-ordinates of point Q are
 (1) (-5, -3) (2) (5, 3)
 (3) (-5, 3) (4) (5, -3)
56. Raghavendra sells a machine for Rs. 43 lakhs at a loss. Had he sold it for Rs. 52 lakh, his gain would have been 5 times the former loss. Find the cost price of the machine.
 (1) Rs. 50.5 lakh
 (2) Rs. 60.6 lakh
 (3) Rs. 44.5 lakh
 (4) Rs. 38.5 lakh
57. If $\sqrt{\sec^2 A - 1} = x$, then the value of x is
 (1) $\cot A$ (2) $\tan A$
 (3) $\operatorname{cosec} A$ (4) $\cos A$

58. To cover a distance of 234 km. in 1.6 hours what should be the average speed of the car in metre/second?

- (1) 40.625 metre/second
 (2) 146.25 metre/second
 (3) 73.125 metre/second
 (4) 81.25 metre/second

59. What is the value of

$$\frac{\cos^2 A}{(1 + \sin A)}?$$

- (1) $1 + \sin A$ (2) $1 - \sin A$
 (3) $1 - \sec A$ (4) $1 + \sec A$

60. If $2x - 2(x - 2) < 5 - x > -2x + 2$; then the value of x is

- (1) 0 (2) 2
 (3) 3 (4) -4

61. Marked price of an item is Rs 900. On purchase of 2 items discount is 16%, on purchase of 5 items discount is 44%. Raksha buys 7 items, what is the effective discount?

- (1) 10 per cent
 (2) 16 per cent
 (3) 36 per cent
 (4) 9.6 per cent

62. If $(6x - 5) = (4x + 7)$, then the numerical value of $(x + 1)^3$ is

- (1) 216 (2) 125
 (3) 64 (4) 343

63. The points A (3, -2), B (1, 4) and C (-2, x) are collinear. What is the value of x ?

- (1) 13 (2) -2
 (3) 5 (4) 3

64. In an army selection process, the ratio of selected to unselected was 5 : 1. If 100 less had applied and 20 less selected, the ratio of selected to unselected would have been 6 : 1. How many candidates had applied for the process?

- (1) 5520 (2) 2760
 (3) 1380 (4) 8280

65. If $xy = 48$ and $x^2 + y^2 = 100$, then $(x + y)$ is

- (1) 12 (2) 16
 (3) 18 (4) 14

66. An angle is $\frac{1}{3}$ rd of its supplementary angle. Find the measure of the angle?

- (1) 45° (2) 90°
 (3) 135° (4) 22.5°

67. If $\left(\frac{5}{9} \text{ of } x\right) - \left(\frac{2}{5} \text{ of } \frac{9}{4}\right)$ equals $-\frac{4}{5}$, then find x .

- (1) 0.18 (2) 0.12
 (3) 2 (4) 0.54

68. In an isosceles trapezium _____

- (1) Diagonals are congruent
 (2) Opposite sides are parallel
 (3) Diagonals are bisectors of each other
 (4) Diagonals bisect opposite angles

69. There is 40% increase in an amount in 10 years at simple interest. What will be the compound interest of Rs. 30000 after 3 years at the same rate?

- (1) Rs. 3745.92
 (2) Rs. 7491.84
 (3) Rs. 9364.8
 (4) Rs. 5618.88

70. A number is greater than thrice its reciprocal by $\frac{26}{3}$. What is the number?

- (1) 10 (2) 11
 (3) 9 (4) 8

71. The cross section of a canal is in the shape of an isosceles trapezium which is 4 metre wide at the bottom and 5 metre wide at the top. If the depth of the canal is 2 metre and it is 120 metre long, what is the maximum capacity of this canal?

- (1) 2160 cubic metre
 (2) 3240 cubic metre
 (3) 4320 cubic metre
 (4) 1080 cubic metre

72. Refer the following data table and answer the question.

	Boys	Girls
Medical	70	80
Engineering	80	40

What per cent of students who chose Engineering are girls?

- (1) 26.32 (2) 12.5
 (3) 25 (4) 33.33

73. Refer the following data table and answer the question.

	Cumulative production
January	690
February	1340
March	2040
April	2710
May	3150
June	3520

How many cars were manufactured in the months of April and May?

- (1) 910 (2) 1270
 (3) 6660 (4) 1110

74. Refer the following data table and answer the question.

Day of the week	Distance jogged (in kms)
Monday	5
Tuesday	3
Wednesday	3.5
Thursday	6
Friday	2
Saturday	3.5
Sunday	5

If 400 calories are burnt by jogging 5 km, how many calories were burnt in the given week?

- (1) 1680 calories
 (2) 1580 calories
 (3) 1590 calories
 (4) 2240 calories

75. Refer the following data table and answer the question.

Items	Yearly Expense in Rs. lakhs
Raw	
Materials	12
Labour	8
Rent	6
Interest	2
Taxes	4

Expenditure on raw materials and taxes is what percent of total expenses?

- (1) 46 per cent
 (2) 44 per cent
 (3) 52 per cent
 (4) 50 per cent

76. Select the synonym of **to theorize**.

- (1) to measure
- (2) to prove
- (3) to speculate
- (4) to calculate

77. Rearrange the parts of the sentence in correct order.

To write in plain vigorous language

P. one has to think fearlessly, and if

Q. one thinks fearlessly

R. one cannot be politically orthodox

- (1) QRP (2) PQR
- (3) RPQ (4) QPR

78. In the following question, the sentence given with blank is to be filled in with an appropriate word. Select the correct alternative out of the four.

No parents can _____ to see their ward waste their potential.

- (1) visualize (2) predict
- (3) envisage (4) afford

79. 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 Indirect/Direct speech.

Abhay said, "I will go to Surat tomorrow".

- (1) Abhay said that he would go to Surat the next day.
- (2) Abhay said he would go to Surat tomorrow.
- (3) Abhay said he will be going to Surat the next day.
- (4) Abhay said that he would go to Surat tomorrow.

80. Improve the bracketed part of the sentence.

The **(needs)** of the hour was to reform the entire banking system.

- (1) need
- (2) needing
- (3) needings
- (4) No improvement

81. In the following question, a sentence has been given in

Active/Passive voice. Out of four alternatives suggested, select the one, which best expresses the same sentence in Passive/Active voice.

They are going to watch a drama tomorrow.

- (1) A drama is going to be watched by them tomorrow.
- (2) A drama will be watched by them tomorrow.
- (3) A drama was going to be watched by them tomorrow.
- (4) Tomorrow the drama is going to be watched by them.

82. In the following question, the sentence given with blank is to be filled in with an appropriate word. Select the correct alternative out of the four.

The minister appealed to the public not to _____ to violence.

- (1) criticize (2) provoke
- (3) resort (4) influence

83. Select the antonym of **ambushed**.

- (1) lurk (2) waylay
- (3) camouflage
- (4) exposed

84. Rearrange the parts of the sentence in correct order.

Elections are likely to be held

P. in 2017 once law and order

Q. time frame has been set

R. is restored though no

- (1) PRQ (2) PQR
- (3) QPR (4) RPQ

85. In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.

wide in range or effect

- (1) sweeping
- (2) exaggerate
- (3) exclusive
- (4) superficial

86. Choose the word with the correct spelling.

- (1) toxisity (2) traducer
- (3) rubycund (4) impeeding

87. In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.

To treat with cruelty or violence

- (1) wrong (2) abuse
- (3) pervert (4) fault

88. Improve the bracketed part of the sentence.

One minute they're all sweet **(but)** caring and the next minute they stab you in the back.

- (1) if (2) and
- (3) only (4) nor

89. In the following question, 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'.

If I had remembered (1)/this it will have (2)/prevented some mistakes. (3)/ No error (4)

90. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Too many cooks spoil the broth

- (1) It is always better to do a job independently
- (2) Asking many people for advice will cause confusion, and the decision will never be made
- (3) If too many people are involved in a task or activity, it will not be done well
- (4) Food is always cooked better if one person cooks it

91. Select the word with the correct spelling.

- (1) litigate (2) diatrybe
- (3) cloyster (4) griemiest

92. Select the antonym of **malignant**.

- (1) mortal (2) internecine
- (3) benign (4) lethal

93. In the following question, 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'.

It was being hard to believe (1)/ that my brother could be (2)/ involved with anything so sinister. (3)/ No error (4)

- 94.** In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Easy come, easy go

- (1) If you forcibly tie up a person in a relationship that person will run away
- (2) No matter what, one should never lose temper
- (3) Every task is easy for a talented person
- (4) Something acquired without effort may be lost without regret

- 95.** Choose the synonym of **to thrash**.

- (1) to pin
- (2) to grasp
- (3) to pinch
- (4) to beat up

Directions (96-100) : In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

The battle between attackers and the attacked is becoming still more **(96)**. Faced with potentially new cyber **(97)**, the danger to India's economic and national security is going **(98)** geometrical progression. To be forearmed, with **(99)** offensive cyber operations and **(100)** cyber security, is essential.

- 96.** (1) stronger (2) asymmetric
(3) inclined (4) strange

- 97.** (1) onslaughts
(2) attack
(3) world
(4) intrusions

- 98.** (1) down as (2) down for
(3) up on (4) up in

- 99.** (1) the two (2) both
(3) either (4) neither

- 100.** (1) more stronger
(2) strongest
(3) strengthened
(4) strengthening