

GENERAL INTELLIGENCE & REASONING

Directions (1 - 9) : In the following questions select the related figure/letters/number from the given alternatives.

1. MLKJ : NOPQ :: IHGF : ?

- (1) UTSR (2) RSTU
(3) SRUT (4) UTRS

2. ACEG : ZXVT :: BDFH : ?

- (1) YWUS (2) YXWV
(3) YWVT (4) YXVW

3. BADC : XWZY :: FEHG : ?

- (1) VXRT (2) TSVU
(3) YXCV (4) VSXW

4. $\frac{5}{9} : \frac{7}{13} :: \frac{10}{19} : ?$

- (1) $\frac{14}{26}$ (2) $\frac{14}{27}$

- (3) $\frac{14}{23}$ (4) $\frac{14}{25}$

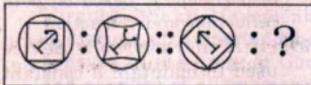
5. 3 : 9 :: 6 : ?

- (1) 14 (2) 18
(3) 17 (4) 16

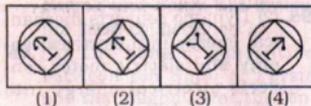
6. 23 : 8 :: 32 : ?

- (1) 6 (2) 9
(3) 17 (4) 27

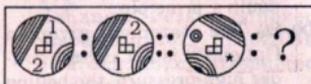
7. Question Figures :



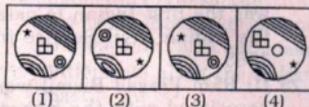
Answer Figures:



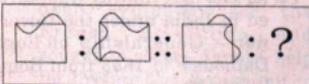
8. Question Figures:



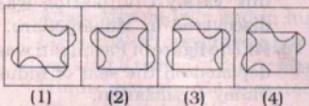
Answer Figures:



9. Question Figures :



Answer Figures:



Directions (10-18) : In the following questions, select the one which is different from the other three responses.

10. (1) Message

(2) Information

(3) Matter (4) Material

11. (1) Guitar (2) Veena

(3) Flute (4) Sitar

12. (1) 7-145 (2) 6-108

(3) 5-75 (4) 4-48

13. (1) Mars (2) Jupiter

(3) Earth (4) Comet

14. (1) Geeta (2) Quran

(3) Bible

(4) Mahabharat

15. (1) 3,5,7,9 (2) 5,7,9,11

(3) 4, 6, 8,10 (4) 2, 5, 9,10

16. (1) 8662 (2) 5731

(3) 4628 (4) 2864

17. (1) Tagore (2) Raman

(3) Bhaskara (4) Khurana

18. (1) 17-142 (2) 71-34

(3) 41-28 (4) 14-28

19. Number of letters skipped in between adjacent letters in the series increases by one.

Which of the following series observes the rule given below ?

(1) BEIN (2) CDJO

(3) GJLS (4) QUNZ

20. In the following words, the group of letters should not contain more than three vowels. Which of the following words does **not** conform to the rule ?

(1) SCARCITY

(2) PROGNOSIS

(3) COMPLEXITY

(4) CONVULSION

21. Arrange the following words in a meaningful order:

1. Grapes 2. Vineyard

3. Whisky 4. Brewing

5. Distillation

(1) 2, 1, 5, 4, 3

(2) 3, 5, 4, 2, 1

(3) 2, 1, 4, 3, 5

(4) 2, 1, 4, 5, 3

22. Which will appear fourth in the dictionary ?

(1) Xylophilous

(2) Xylophagus

(3) Xylopyrography

(4) Xylophagan

Directions (23-26) : In the following questions, choose the correct alternative from the given responses that will complete the series.

23. 3 7 13 ? 31 43 57

(1) 51 (2) 81

(3) 41 (4) 21

24. EJOT, INSX, AFKP, ?

(1) CHMS (2) XTOJ

(3) BGLQ (4) EJOT

25. ? , PSV, EHK, TWZ, ILO

(1) BEH (2) IMP

(3) ACG (4) ADG

26. 78, 86, 2, 88, 82, 90
 (1) 76 (2) 84
 (3) 83 (4) 80

27. Some equations are solved on the basis of a certain system. On the same basis, find out the correct answer for the unsolved equation.

If $4^2 = 7$, $5^2 = 7$, $6^2 = 9$, then $7^2 = ?$

- (1) 14 (2) 13
 (3) 10 (4) 8

28. Find out the number which belongs to the given group of numbers from the alternatives.

246, 579, 135, 35, 68

- (1) 55 (2) 468
 (3) 123 (4) 31

29. If P stands for +, Q stands for ×, R stands for ÷, then

$18 Q 12 P 4 R 5 = ?$

- (1) 59 (2) 26
 (3) 11.7 (4) 2.33

30. Find the wrong number in the given series.

3, 1, 15, 31, 64, 127

- (1) 127 (2) 64
 (3) 31 (4) 3

31. A car covers the first half of the distance between two places at 40 km/hr and the second half of the distance at 60 km/hr. So what is the average speed of the car?

- (1) 45 km/hr (2) 48 km/hr
 (3) 50 km/hr (4) 60 km/hr

32. My father has two brothers. The youngest has two sons and one daughter. The elder one has one son and two daughters and the remaining one has three sons. If my father has four nephews, how many cousins (brothers) have I got?

- (1) 6 (2) 4
 (3) 7 (4) 5

33. From the given alternatives, select the word which cannot be formed using the letters of the given word.

ACCOMPANIED

- (1) PANIC (2) COME
 (3) COMB (4) PAIN

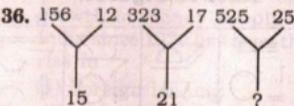
34. In a certain code language, TOGETHER is written as EGTORETH. How is CONGRATULATE written in that language?

- (1) GRTULTEANOC
 (2) GNCOUTRAETLA
 (3) GNOCUTARETAL
 (4) GLNAOTCEURTA

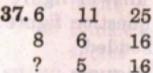
35. In certain code language, REQUEST is written as S2R52TU. How is RETEST written in that language?

- (1) S2V2RV (2) S2U2RU
 (3) S2U2TU (4) S2V2TV

Directions (36-37) : In the following questions, find the missing number from the given responses,



- (1) 43 (2) 17
 (3) 23 (4) 37



- (1) 10 (2) 14
 (3) 12 (4) 16

38. In the following Venn diagram, identify the letter which denotes Film Actors who are Singers but not Directors.



- (1) D (2) C
 (3) E (4) F

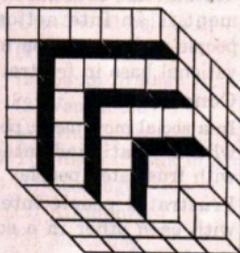
39. The door of Priya's house faces East. From the back side of the house, she walks straight 50 metres, then turns to the right and walks 50 metres again. Finally, she turns towards the left and stops after walking 25 metres. Now Priya is facing which direction?

- (1) North (2) West
 (3) East (4) South

40. Ram travelled 6 feet towards West, he turned left and walked 8 feet, then turned left and walked 4 feet, then turned left and walked 8 feet again. How far is he now from the starting point?

- (1) 8 feet (2) 6 feet
 (3) 4 feet (4) 2 feet

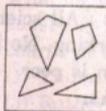
41. How many black-faced cubes are there in the given structure?



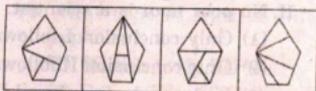
- (1) 75 (2) 55
 (3) 25 (4) 15

42. Identify the answer figure from which the pieces given in the question figure have been cut.

Question Figure:

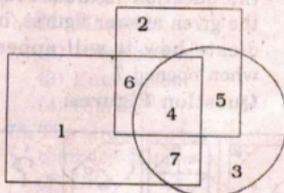


Answer Figures:



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

43. In the following diagram, rectangle represents males, circle represents urban and square represents educated. Which region represents educated urban males?



- (1) 5 (2) 4
 (3) 6 (4) 1

Directions (44-45) : In the following questions, one or 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.

44. Statement : A social movement is an interaction of people with a common motivational base in frustration.

Conclusions :

I. In a social movement, people who are satisfied interact with frustrated people.

II. Frustrated people interact with each other in a social movement.

(1) Only conclusion I follows

(2) Only conclusion II follows

(3) Neither conclusion I nor II follows

(4) Both conclusions I and II follow

45. Statements : All scientists are hard-working. No hard-working man is poor.

Conclusions :

I. No scientist is poor.

II. No poor man is a scientist.

(1) Only conclusion I follows

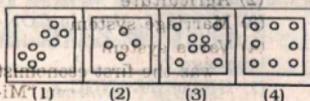
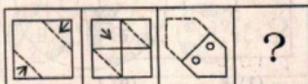
(2) Only conclusion II follows

(3) Both conclusions I and II follow

(4) None of the conclusions I or II follows

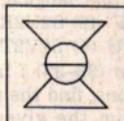
46. A piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened ?

Question Figures:

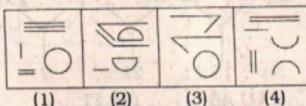


47. Components of which of the answer figures will exactly make up the question figure given below.

Question Figure:

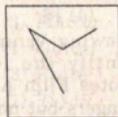


Answer Figures:

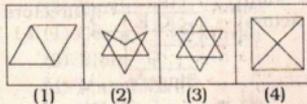


48. Select the answer figure in which the question figure is hidden/embedded.

Question Figure:



Answer Figures:



49. 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 in the two matrices given below. 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

represented first by its row and next by its column, e.g. 'A' can be represented by 13, 76, etc., and 'G' can be represented by 22, 65, etc. Similarly, you have to identify the set for the word 'PUBLIC'.

Matrix I

	0	1	2	3	4
0	A	U	O	T	B
1	T	E	P	A	W
2	R	M	G	G	I
3	U	M	M	C	L
4	P	L	N	E	C

Matrix II

	5	6	7	8	9
5	P	T	A	M	E
6	G	I	O	T	M
7	E	A	L	T	M
8	R	A	B	L	T
9	N	P	E	G	P

(1) 12, 30, 87, 41, 66, 33

(2) 99, 30, 87, 77, 23, 44

(3) 55, 01, 87, 98, 34, 87

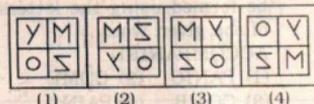
(4) 40, 30, 87, 89, 24, 43

50. Which of the answer figures is exactly the mirror image of the given figure, when the mirror is held on the line AB?

Question Figure:



Answer Figures:



GENERAL AWARENESS

51. The discount on price when a large quantity is purchased is known as
- (1) Volume discount
 - (2) Maximum discount
 - (3) Minimum discount
 - (4) Marginal discount
52. The characteristic feature of democratic socialism is
- (1) Privatization
 - (2) Liberalization
 - (3) Nationalization
 - (4) Socialization
53. If a group of rich people use power for their selfish goals, it is called as
- (1) Monarchy
 - (2) Oligarchy
 - (3) Polity
 - (4) Democracy
54. Who said that "Man is born free and everywhere he is in chains" ?
- (1) Locke
 - (2) Aristotle
 - (3) Marx
 - (4) Rousseau
55. A civil servant in India may exercise political liberty by
- (1) joining any political party
 - (2) contesting in the elections
 - (3) criticizing the government
 - (4) exercising his franchise
56. The term 'Law' used in the phrase 'Rule of Law' refers to
- (1) Positive law
 - (2) Natural law
 - (3) Common law
 - (4) Conventions of the Constitution
57. The total physical product per unit of a variable input is known as
- (1) Average product
 - (2) Average returns
 - (3) Average physical product
 - (4) Average revenue
58. Which of the following was not known to the Rigvedic period ?

- (1) Joint family system
- (2) Agriculture
- (3) Marriage system
- (4) Varna system
59. Who was the first economist to have coined the terms "Micro Economics" and "Macro Economics" ?
- (1) Milton Friedman
 - (2) Ragnar Frisch
 - (3) J.M. Keynes
 - (4) Paul Samuelson
60. In a free enterprise economy, the decision on what shall be produced is made by
- (1) Demand
 - (2) Income
 - (3) Price mechanism
 - (4) Cost
61. The main reason for the high growth of money supply in India since 1970 has been the rise in
- (1) Foreign lending
 - (2) Foreign borrowing
 - (3) RBI credit to the government
 - (4) Bank credit to the private sector
62. Who was the first Muslim to be elected as President of the Indian National Congress ?
- (1) Syed Ahmad Khan
 - (2) Agha Khan
 - (3) Muhammad Ali Jinnah
 - (4) Badruddin Tyabji
63. The exhaustion of soil fertility is the result of
- (1) Cover cropping
 - (2) Multiple cropping
 - (3) Rotation cropping
 - (4) Over cropping
64. The first Muslim king who invaded South India was
- (1) Balban
 - (2) Mohammad bin Tughlaq
 - (3) Babur
 - (4) Alauddin Khilji
65. The Great Bath was located in
- (1) Harappa
 - (2) Mohenjodaro
 - (3) Lothal
 - (4) Kalibangan

66. The Mughal judicial system was based on
- (1) Persian law
 - (2) Hebrew law
 - (3) Islamic law
 - (4) Indian law
67. Hurricanes are generally
- (1) active over the land
 - (2) travelling in-families
 - (3) dust storms
 - (4) active over the sea
68. Orinoco oil belt is in
- (1) Dubai
 - (2) Saudi Arabia
 - (3) Venezuela
 - (4) Brazil
69. The highest peak in Africa is
- (1) Aconcagua
 - (2) Kilimanjaro
 - (3) McKinley
 - (4) Mount Elbrus
70. A layer of the Earth made up of mixed metals and silicates is called
- (1) Sial
 - (2) Sima
 - (3) Mantle
 - (4) Nife
71. Who, for the first time, successfully determined the charge of an electron ?
- (1) Thomson
 - (2) Millikan
 - (3) Rutherford
 - (4) Coulomb
72. What type of fruit is pineapple ?
- (1) Siliqua
 - (2) Sorosis
 - (3) Syconus
 - (4) Samara
73. Strobilus is a structure associated with
- (1) Pea
 - (2) Potato
 - (3) Pinus
 - (4) Palm
74. Signet-ring is seen in the life cycle of
- (1) Mosquito
 - (2) Plasmodium
 - (3) Entamoeba
 - (4) Giardia
75. The number of occipital condyles in man is
- (1) One
 - (2) Two
 - (3) Three
 - (4) Four

76. Migratory larvae of Ascaris produces symptoms of pneumonia. This is known as
(1) Down's syndrome
(2) Klinefelter's syndrome
(3) Turner's syndrome
(4) Loeffler's syndrome
77. Which one of the following animals is an osmoconformer?
(1) Hagfish (2) Seal
(3) Whale (4) Rohu
78. Which one of the following is the source of Solar energy?
(1) Nuclear fission
(2) Nuclear fusion
(3) Artificial radioactivity
(4) X-ray emission
79. Which among the following polluting agents is responsible for creating a hole in the ozone layer?
(1) CO (2) CFC
(3) SO₂ (4) CH₄
80. The 'solder' used for connecting electronic circuits consists of
(1) Lead and Tin
(2) Tin and Iron
(3) Copper and Lead
(4) Lead and Aluminium
81. What type of molecular motion is responsible for heat conduction?
(1) Translational
(2) Vibrational
(3) Rotational
(4) Spin
82. Pick the odd one out.
(1) Compiler
(2) Interpreter
(3) Assembler
(4) Word processor
83. MS-Office is an example of
(1) an operating system
(2) a telecommunication software
(3) a programming language
(4) a productivity software
84. In India, the day 5th September is celebrated as Teacher's Day to honour the birthday of

- (1) Rabindra Nath Tagore
(2) Dr. S. Radhakrishnan
(3) Dr. Rajendra Prasad
(4) Mrs. Indira Gandhi
85. The advantage of rain-water harvesting is that it
(1) helps in reducing floods
(2) increases the ground water level
(3) causes more rains
(4) reduces floods and replenishes ground water
86. Injection of weakened microbes to confer resistance to a disease is known as
(1) Transfusion
(2) Vaccination
(3) Inoculation
(4) Intimation
87. Who, among the following, is the author of 'Das-Kapital'?
(1) Rousseau
(2) Karl Marx
(3) Chanakya
(4) Montesquieu
88. When and where will the next Olympics be held?
(1) Beijing, 2014
(2) Shanghai, 2012
(3) Rio-de-Janeiro, 2016
(4) Taiwan, 2013
89. A Persian form of singing a poem is called
(1) Ghazal (2) Qawali
(3) Thumri (4) Bhajan
90. Green-house effect causes
(1) increase of temperature
(2) increase of moisture in air
(3) decrease of temperature
(4) decrease of moisture in air
91. Which one of the following compounds is formed when formaldehyde is treated with Grignard reagent?
(1) Primary alcohol
(2) Secondary alcohol
(3) Tertiary alcohol
(4) Dihydric alcohol

92. Volvo, the car manufacturing company, introduced
(1) Alarm
(2) Fog light
(3) Seat belts
(4) Rear view mirrors
93. The Dark Continent is
(1) Asia (2) Australia
(3) Africa (4) Europe
94. The major constituent of air is
(1) Nitrogen
(2) Carbon dioxide
(3) Oxygen (4) Hydrogen
95. The souring of milk to curd is an example of
(1) Saponification
(2) Putrefaction
(3) Fermentation
(4) Esterification
96. Multi Drug Therapy is for the infection of
(1) Leprosy (2) AIDS
(3) Cholera (4) Hepatitis
97. Fly ash is
(1) CO₂
(2) Organic particulate matter
(3) Small ash particles
(4) NO_x
98. Addition of chlorine to raw water before treatment is known as
(1) Plain chlorination
(2) Post-chlorination
(3) Pre-chlorination
(4) Super-chlorination
99. Which of the following is not a water treatment technique?
(1) Reverse osmosis
(2) Ion exchange
(3) Electro-dialysis
(4) Electrostatic precipitation
100. Which one of the following is a major indoor air pollutant in India?
(1) Ozone
(2) Peroxy Acetyl Nitrite (PAN)
(3) Carbon monoxide
(4) Sulphur dioxide