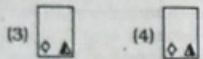
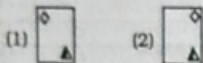
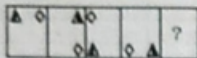


# GENERAL INTELLIGENCE

1. Select the figure that will come next in the following figure series.



2. Two statements are given, followed by three Conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the Conclusions logically follow (s) from the statements.

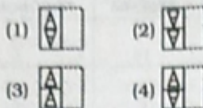
**Statements :**

All drums are sticks.  
Some drums are boxes.

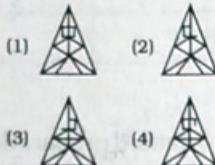
**Conclusions :**

- I. Some boxes are sticks.  
II. Some sticks are drums.  
III. All sticks are drums.

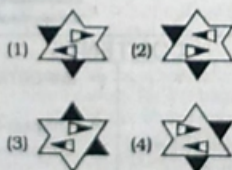
- (1) Only Conclusions II and III follow  
(2) Only Conclusions I and II follow  
(3) Only Conclusions I and III follow.  
(4) All the Conclusions I, II and III follow.
3. Select the option that depicts how the given transparent sheet of paper would appear if it is folded at the dotted line.



4. Select the figure in which the given figure is embedded. (Rotation is not allowed)



5. Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.

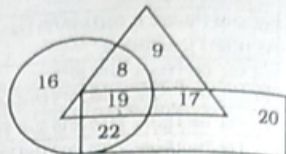


6. Which letter will replace the question mark (?) in the following series?

X, R, ?, I, F, D, C  
(1) Q (2) M  
(3) N (4) O

7. In the given Venn diagram, the circle represents 'businessmen', the triangle represents 'landlords' and the rectangle represents 'income tax payers'. The numbers given in the diagram represent the number of

persons in that particular category.



How many businessmen are tax payers but NOT landlords?

- (1) 8 (2) 22  
(3) 17 (4) 19

8. Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

- (1) UVYCH (2) JKNRV  
(3) GHKOT (4) PQTXC

9. In a code language, YOGHURT is written as 251578211820. How will DEVELOP be written as in that language?

- (1) 45225111516  
(2) 45215121516  
(3) 45225121516  
(4) 45225121515

10. Which letter-cluster will replace the question mark (?) in the following series?

FKP, HNT, JQX, LTB, ?  
(1) MWF (2) NWG  
(3) NXF (4) NWF

11. Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

- (1) Inquire (2) Deliberate  
(3) Explore (4) Examine

12. 'A + B' means 'A is the sister of B'

'A - B' means 'A is the brother of B'

'A x B' means 'A is the mother of B'

'A + B' means 'A is the father of B'

If  $V + S \times Q - P + T + R \times U$ , then how is R related to S?

(1) Grandson

(2) Daughter

(3) Grand-daughter

(4) Maternal grandmother

13. Select the missing number from the options given below.

11 17 8

16 36 4

15 23 ?

(1) 12 (2) 14

(3) 11 (4) 10

14. Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair.  
Suitcase : Cloak Room

(1) Salary : Credit

(2) Money : Bank

(3) Chair : Furniture

(4) Bag : Luggage

15. Three different positions of the same dice are shown. Which number will be on the face opposite to the one having 2?



(1) 4 (2) 5

(3) 3 (4) 6

16. Which number will replace the question mark (?) in the following series?

115, ?, 134, 145, 157, 170

(1) 124 (2) 122

(3) 125 (4) 127

17. Which two signs should be interchanged to make the following equation correct?

$4 \times 5 - 24 + 12 + 8 = 14$

(1) + and + (2) + and  $\times$

(3) + and - (4)  $\times$  and +

18. Three of the following four number-pairs are alike in a certain way and one is different. Pick the number-pair that is different from the rest.

(1) 13 : 170 (2) 11 : 120

(3) 5 : 24 (4) 7 : 48

19. 'Political Science' is related to 'Social Science' in the same way as 'Chemistry' is related to \_\_\_\_\_.

(1) Equations

(2) Science

(3) Humanities

(4) Elements

20. Arrange the following words in a logical and meaningful order.

1. Writing 2. Book

3. Seller 4. Idea

5. Feedback 6. Reader

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

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

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

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

21. Select the missing number from the options given below :

9 11 8

6 8 3

45 57 ?

(1) 54 (2) 55

(3) 52 (4) 53

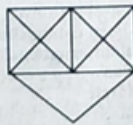
22. Select the option that is related to the third number in the same way as the second number is related to the first number.

9 : 90 :: 12 : ?

(1) 160 (2) 150

(3) 156 (4) 152

23. How many triangles are present in the following figure?



(1) 18 (2) 19

(3) 20 (4) 17

24. The sum of the current ages of Vishal and Armaan is 70 years. 5 years ago, Vishal was twice as old as Armaan. What is Armaan's current age?

(1) 10 years (2) 45 years

(3) 25 years (4) 20 years

25. In a code language, PERMANENT is written as EPMR-BENTN. How will TECHNICAL be written as in that language?

(1) TEHCOCIAL

(2) ETCHOCILA

(3) ETHCPCILA

(4) ETHCOCILA

## GENERAL AWARENESS

26. Who is the author of the book 'India Shastra: Reflections on the Nation in our Time'?

(1) Narendra Modi

(2) Shashi Tharoor

(3) Manmohan Singh

(4) A P J Abdul Kalam

27. Which of the following is the highest mountain peak in Maharashtra?

(1) Kalsubai Shikhar

(2) Arjaneri

(3) Salher

(4) Taramati

28. Who was the last ruler of the Vaghela Dynasty of Gujarat after whose defeat the kingdom was passed to Alaaddin Khilji?

(1) Arjuna Deva

(2) Saranga Deva

(3) Karandev

(4) Rama

29. \_\_\_\_\_ is well-known for the golden beautification of the Harmandir Sahib Gurdwara in the Amritsar, famously known as the Golden Temple.

(1) Maha Singh

(2) Ranjit Singh

(3) Duleep Singh

(4) Charat Singh

30. 'Dashain' is the grandest festival of \_\_\_\_\_.

(1) Bangladesh

(2) Bhutan

(3) Sri Lanka

(4) Nepal

31. Which Indian badminton player was runner-up at the 2019 Swiss Open tournament?

(1) Kidambi Srikanth

(2) Chetan Anand

(3) Sai Praneeth

(4) Parupalli Kashyap

32. Blue litmus paper turns \_\_\_\_\_ on contact with an acidic solution.

(1) red (2) brown

(3) green (4) yellow

33. Name the tissue that transports food to various parts of a plant.

(1) Parenchyma

(2) Xylem

(3) Phloem

(4) Sclerenchyma

34. What effect will a decrease in demand and an increase in supply have on equilibrium price?  
 (1) Equilibrium price will fall  
 (2) Equilibrium price will rise  
 (3) Equilibrium price will be constant  
 (4) Sometimes price will rise and sometimes it will fall
35. Which of the following is called the 'Popular Chamber'?  
 (1) State Assembly  
 (2) Rajya Sabha  
 (3) Lok Sabha  
 (4) Gram Sabha
36. What is dominant chemical present in detergent powder?  
 (1) Hydrochloric acid  
 (2) Sodium carbonate  
 (3) Calcium carbonate  
 (4) Sodium alkyl sulphate
37. A substantial increase in capital expenditure or revenue deficit leads to \_\_\_\_\_.  
 (1) Budgetary Deficit  
 (2) Fiscal Deficit  
 (3) Primary Deficit  
 (4) Revenue Deficit
38. Which of the following Indian film-makers was given the title of 'Ambassador of Interlaken' in 2011 at Switzerland?  
 (1) Yash Johar  
 (2) Raj Kapoor  
 (3) Subhash Ghai  
 (4) Yash Chopra
39. The term 'Dolphin Kick' is associated with which sport?  
 (1) Football (2) Rugby  
 (3) Swimming (4) Cricket
40. Which article of the Constitution of India provides that each Indian state will have a governor?  
 (1) Article 152  
 (2) Article 153  
 (3) Article 151  
 (4) Article 154
41. Which Indian batsman was the first to hit six consecutive sixes in first-class cricket?  
 (1) Ravi Shastri  
 (2) Sunil Gavaskar  
 (3) Virat Kohli  
 (4) Sachin Tendulkar
42. In the year \_\_\_\_\_, the Maratha Empire ceased to exist with the surrender of the Marathas to the British, ending the Third Anglo-Maratha War.  
 (1) 1792 (2) 1811  
 (3) 1818 (4) 1806
43. What is the distinctive characteristic of 'marsupials'?  
 (1) They lay eggs  
 (2) They hibernate in winter  
 (3) They carry young ones in pouches  
 (4) They migrate from one place to another
44. Which of the following countries is the largest producer of wheat in the world?  
 (1) Bangladesh  
 (2) Myanmar (Burma)  
 (3) India  
 (4) China
45. To which of the following Indian states does the tribe of 'Nyishi' belong?  
 (1) Tamil Nadu  
 (2) Bihar  
 (3) Arunachal Pradesh  
 (4) Chhattisgarh
46. Rajat has hypermetropia. What type of lens will the ophthalmologist recommend to correct his vision?  
 (1) Bifocal (2) Concave  
 (3) Progressive (4) Convex
47. \_\_\_\_\_ has been established as the annual 'International Day of Happiness'.  
 (1) 20th March  
 (2) 31st March  
 (3) 15th January  
 (4) 23rd February
48. What was India's rank among 156 countries in the Global Happiness Index 2019?  
 (1) 140th (2) 124th  
 (3) 132nd (4) 137th
49. Which state of India has the longest mainland coastline?  
 (1) Gujarat (2) Odisha  
 (3) Kerala  
 (4) Maharashtra
50. During World War II, the Battles of Kohima and Imphal were fought in the year \_\_\_\_\_.  
 (1) 1945 (2) 1943  
 (3) 1942 (4) 1944
51. In  $\Delta BC$ , P is a point on BC such that  $BP : PC = 2 : 3$  and Q is the midpoint of BP. Then area  $(\Delta ABQ) : \text{area } (\Delta ABC)$  is equal to:  
 (1) 2 : 5 (2) 1 : 5  
 (3) 1 : 4 (4) 2 : 3
52. Two articles are sold for Rs. 4,956 each. On one, the seller gains 18% and on the other he loses 16%. What is his overall gain or loss per cent (nearest to one decimal place)?  
 (1) 2.1% loss (2) 1.9% loss  
 (3) 2.1% gain (4) 1.9% gain
53. What is the value of x so that the seven digit number 91876x2 is divisible by 72?  
 (1) 2 (2) 7  
 (3) 5 (4) 3
54. If  $a : b = 2 : 3$ , then  $(5a - 2b) : (5a + 2b) : (5a + 2b)$  is equal to:  
 (1) 3 : 7 (2) 2 : 7  
 (3) 1 : 3 (4) 1 : 4
55. If  $\cos \theta = \frac{4}{5}$ , then  $(\sin^2 \theta \cos \theta + \cos^2 \theta \sin \theta)$  is equal to:  
 (1)  $\frac{16}{25}$  (2)  $\frac{84}{125}$   
 (3)  $\frac{14}{25}$  (4)  $\frac{82}{125}$

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**Directions (56-59) :** The following table shows the percentage distribution of students in various disciplines from five different colleges. Read the following table and answer the questions.

| Disciplines    | Colleges |        |        |       |        |
|----------------|----------|--------|--------|-------|--------|
|                | A        | B      | C      | D     | E      |
| Science        | 25       | 35     | 45     | 25    | 35     |
| Economics      | 35       | 40     | 20     | 42    | 25     |
| Mathematics    | 40       | 25     | 35     | 30    | 40     |
| Total students | 8,000    | 10,000 | 15,000 | 9,000 | 11,000 |

56. What is the percentage of students from the discipline of Mathematics for colleges A and C taken together, (nearest to one decimal place)?

- (1) 37.5 (2) 37.2  
(3) 36.9 (4) 36.7

57. What is the average number of students from the science discipline of all the colleges taken together?

- (1) 3762 (2) 3748  
(3) 3724 (4) 3642

58. If the data of the total students college wise, is represented by a pie-chart, what is the central angle of the sector representing college E (to nearest whole number)?

- (1) 78° (2) 75°  
(3) 79° (4) 73°

59. The number of students from the discipline of Economics from college B is approximately what per cent of the number of students from the discipline of Science from the college C?

- (1) 61 (2) 59  
(3) 56 (4) 58

60. Chords AB and CD of a circle intersect at a point P inside the circle. If AB = 10 cm, AP = 4 cm and PC = 5 cm, then CD is equal to:

- (1) 4.8 cm (2) 6.8 cm  
(3) 9.8 cm (4) 7.8 cm

61. A train without stoppage travels with an average speed of 80 km/h and with stoppage, it travels with an average speed of 64 km/h. For how many minutes does the train stop on an average per hour?

- (1) 12 (2) 8  
(3) 10 (4) 14

62. The price of sugar is increased by 17%. A person wants to increase his expenditure by 7% only. By what percentage, correct to one decimal place, should he reduce his consumption?

- (1) 3.1% (2) 8.3%  
(3) 8.5% (4) 8.7%

63. An article is sold for Rs. 547.40 after successive discounts of 30% and 15%. What is the marked price of the article?

- (1) Rs. 920 (2) Rs. 960  
(3) Rs. 900 (4) Rs. 940

64. Find the value of:

$$3.8 + (8.2 + 4.1 \times 2) - 4 \times 3 + 1.2$$

- (1) 2.2 (2) -1.2  
(3) 1.2 (4) -2.2

65. Find the difference between the compound interest and simple interest on Rs.  $x$  at 12% per annum for 2 year is Rs. 43.20. What is the value of  $x$ ?

- (1) 2,400 (2) 2,800  
(3) 3,000 (4) 2,500

66. If  $(a + b) = 6$  and  $ab = 8$ , then  $(a^3 + b^3)$  is equal to:

- (1) 216 (2) 108  
(3) 144 (4) 72

67. If  $a + b + c = 6$  and  $ab + bc + ca = 5$ , then  $a^3 + b^3 + c^3 - 3abc$  is equal to:

- (1) 116 (2) 126  
(3) 98 (4) 108

68. The value of  $\frac{\sin 44^\circ}{\cos 46^\circ} + \sin^2 60^\circ - \cos^2 45^\circ + \sec 60^\circ$  is equal to:

- (1)  $\frac{13}{4}$  (2)  $\frac{11}{4}$   
(3)  $\frac{11}{3}$  (4)  $\frac{7}{4}$

69. In a class of 60 students, 40% are girls. The average weight of the boys is 62 kg and that of the girls is 55 kg. What is the average weight of the whole class?

- (1) 59.2 kg (2) 58.8 kg  
(3) 59 kg (4) 58.6 kg

70. In a circle with centre O, AB is a diameter and CD is a chord such that  $\angle ABC = 28^\circ$ , then  $\angle CAD$  is equal to:

- (1)  $34^\circ$  (2)  $28^\circ$   
(3)  $62^\circ$  (4)  $32^\circ$

71. A is 50% more efficient than B and C is 40% less efficient than B. Working together, they can complete a task in 20 days. In how many days will C alone complete 30% of that task?

- (1) 31 (2) 33  
(3) 35 (4) 29

72. If  $\sqrt{x} + \frac{1}{\sqrt{x}} = 2\sqrt{2}$ , then

$$\left(x^2 + \frac{1}{x^2}\right) \text{ is equal to:}$$

- (1) 34 (2) 64  
(3) 36 (4) 32

73. The radii of the two circular faces of the frustum of a cone of height 21 cm are 5 cm and 3 cm. What is its volume in  $\text{cm}^3$ ?

$$\left(\text{Take } \pi = \frac{22}{7}\right)$$

- (1) 1078 (2) 1020  
(3) 1058 (4) 1025

74. If  $\tan 40^\circ = \cot(40^\circ - 2\theta)$ , then  $\theta$  is equal to:

- (1)  $20^\circ$  (2)  $25^\circ$   
(3)  $35^\circ$  (4)  $30^\circ$

75.  $\triangle ABC \sim \triangle RQP$  and  $PQ = 10\text{cm}$ ,  $QR = 12\text{cm}$  and  $RP = 16\text{cm}$ . If

$$\text{ar}(\triangle PQR) : \text{ar}(\triangle ABC) = \frac{9}{4},$$

then BC is equal to:

- (1)  $\frac{20}{3}$  cm (2)  $\frac{32}{3}$  cm  
(3) 6 cm (4) 8 cm

**ENGLISH COMPREHENSION**

76. Select the word which means the same as the group of words given.

A state of perfect balance

- (1) equilibrium  
(2) equilateral  
(3) equivalent  
(4) equinox

77. Given below are four jumbled sentences. Select the option that gives their correct order.

A. So, I had thoughts of setting up an Indian restaurant there with my wife's support.

B. It took us two months to redesign the place to suit our needs.

C. One of the things I really missed when I set up home in Maryland, was a restaurant that served authentic Indian food.

D. I decided to pursue this idea seriously and bought an old building in the downtown.

- (1) CADB (2) BCDA  
(3) CBAD (4) DACB

78. Select the most appropriate meaning of the idiom printed in bold in the given sentence. Many people join politics to **feather their own nest**.

- (1) serve their country  
(2) utilize black money  
(3) promote their own interest  
(4) make others' life comfortable

79. Select the correct passive form of the given sentence.

Credit cards are replacing cash transactions.

- (1) Cash transactions are being replaced by credit cards.  
(2) Cash transactions have been replaced by credit cards.  
(3) Cash transactions are replaced by credit cards.  
(4) Cash transactions had been replaced by credit cards.

80. Select the most appropriate option to fill in the blank.

I sat \_\_\_\_\_ my life as nothing seemed to be working for me.

- (1) blessing (2) cursing  
(3) invoking (4) tormenting

81. Select the most appropriate antonym of the given word.

**FOREIGN**

- (1) native (2) rural  
(3) Indian (4) rustic

82. Select the most appropriate option to substitute the bold segment in the given sentence. If no substitution is required, select No improvement.

Ishwarchand Vidyasagar **use the ancient text to suggestion** that widows could marry.

(1) used the ancient texts to suggest

(2) No improvement

(3) use the ancient texts for suggestion

(4) used the ancient texts suggests

83. Select the correct active form of the given sentence.

We were given very little time to prepare the presentation.

(1) They have given us very little time to prepare the presentation.

(2) They give us very little time to prepare the presentation.

(3) They will give us very little time to prepare the presentation.

(4) They gave us very little time to prepare the presentation.

84. Select the most appropriate meaning of the idiom printed in bold in the given sentence.

The man heaved a sigh of relief when he was sure he was **out of the woods**.

(1) out of danger

(2) out of the forest

(3) discharged from hospital

(4) released from prison

85. Select the most appropriate synonym of the given word.

**DEVOUT**

- (1) pious (2) revered  
(3) loyal (4) respectable

86. Select the correctly spelt word.

- (1) Proportion (2) Propotion  
(3) Prepporation (4) Proporsion

87. Select the most appropriate option to fill in the blank.

The roads at 15000 feet are not easily navigable and the air is \_\_\_\_\_ and freezing.

- (1) elevated (2) rarefied  
(3) exalted (4) intensified

88. Select the most appropriate synonym of the given word.

**RENEW**

- (1) conceit (2) wisdom  
(3) obscurity (4) fame

89. Select the correctly spelt word.

- (1) exhilarate (2) exilarate  
(3) exilerate (4) exhilarate

90. In the sentence identify the segment which contains grammatical error.

Not complying by any of the laws can land you into serious trouble.

(1) into serious trouble

(2) any of the laws

(3) can land you

(4) Not complying by

91. Select the word which means the same as the group of words given.

One who walks in sleep

(1) somnambulist

(2) philanthropist

(3) omnipotent

(4) pedestrian

92. Select the most appropriate option to substitute the bold segment in the given sentence. If no substitution is required, select No improvement.

I have not **saw him since I last leave** the town.

(1) seen him since I last left

(2) No improvement

(3) see him since I last left

(4) seen him for I last left

93. Given below are four jumbled sentences. Select the option that gives their correct order.

A. Lyrics help in creating a distinctive narrative, some conventions of which have been carried over from the talkies era.

- B. Thus, songs have outlived films in people's memories.
- C. However, songs seem to have acquired a musical grammar of their own, establishing an emotional chord with the listeners.
- D. In popular Indian cinema, lyrics are to music what the heart is to the body.

- (1) ABCD            (2) DCBA  
 (3) DACB           (4) ADBC

94. Select the most appropriate antonym of the given word.

**ASCENT**

- (1) descent            (2) depression  
 (3) distant            (4) decent

**Directions (95-99) :** In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

English is not a language that [95] \_\_\_\_\_ in India. But it is used extensively in [96] \_\_\_\_\_ country. India comes second on the list of countries [97] \_\_\_\_\_ most English speakers, albeit not as the first language. English is more [98] \_\_\_\_\_ than any single Indian language! It has managed to [99] \_\_\_\_\_ the entire world.

95. (1) created            (2) developed  
 (3) derived            (4) originated
96. (1) the                (2) an  
 (3) a                    (4) one
97. (1) from              (2) among  
 (3) by                  (4) with
98. (1) prevalent  
 (2) frequented  
 (3) comprehensive  
 (4) extended
99. (1) saturate          (2) invade  
 (3) persuade          (4) pervade
100. In the sentence identify the segment which contains grammatical error.
- Raja Ravi Varma was one of the first artist who tried to create a style that was both modern and traditional.
- (1) Raja Ravi Varma was  
 (2) both modern and traditional.  
 (3) to create a style that was  
 (4) one of the first artist