

GENERAL INTELLIGENCE

1. Priyank is Akshay's brother. Sonia is Saksham's sister. Akshay is Sonia's son. How is Priyank related to Sonia?

- (1) Nephew (2) Father
(3) Son (4) Brother

2. At a party, the number of girls is half the number of boys. After an hour, five boys leave the party and three girls join the party. How many people were present at the party an hour before?

- (1) 16 (2) 8
(3) 24 (4) 22

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

- (1) Thorium (2) Uranium
(3) Radium (4) Sodium

4. Select the word-pair in which the two words are related in the same way as the two words in the following word-pair.

Brass : Copper

- (1) Chromium : Silver
(2) Bronze : Gold
(3) Nickel : Iron
(4) Solder : Tin

5. Find the missing number from the options given below :

17 22 37
23 28 43
16 ? 36

- (1) 12 (2) 32
(3) 21 (4) 34

6. Select the terms that will replace the question-marks (?) in the following series.

Z, X, V, ?, R, P, ?

- (1) S, N (2) S, O
(3) T, O (4) T, N

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

1. Write
2. Publish
3. Author
4. Reader
5. Sale

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

8. Select the term that will come next in the following series.

OBE, PDH, QFK, RHN, ?

- (1) SKQ (2) RJQ
(3) SJQ (4) SJP

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

R 7 M P

- (1) P M 7 R (2) R M 7 P

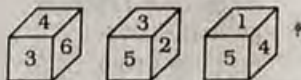
- (3) R 7 M P (4) P M 7 R

10. Which two signs should be interchanged in the following equation to make it correct?

$$24 + 8 - 5 \times 5 + 3 = 13$$

- (1) × and - (2) × and +
(3) + and × (4) + and +

11. Three different positions of a dice are shown below. Which number appears on the face opposite the number 6?



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

12. If AU = 21 and EGG = 245, then how will you code BAKE?

- (1) 19 (2) 75
(3) 110 (4) 155

13. 'Cheerful' is related to 'Sad' in the same way as 'Generous' is related to _____.

- (1) Gloomy (2) Kind
(3) Selfish (4) Intelligent

14. A square paper is folded and cut as shown below. How will it appear when unfolded?



- (1) (2)

- (3) (4)

15. Choose the Venn diagram from the given options which best represents the relationship amongst the following classes: Wheat, Mustard, Cabbage

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

16. In a code language, NEEDLE is written as MFDEKF. How will HAMMER be written in the same language?

- (1) GBLNFT (2) IBLNDS
(3) GALNDS (4) GBLNDS

17. Find the missing number from the options given below :

4 3 19
6 4 40
9 9 ?

- (1) 90 (2) 80
(3) 72 (4) 100

18. Three of the following four number-pairs are alike in a certain way and one is different. Pick the odd one out.

- (1) 65 - 101 (2) 26 - 50
(3) 17 - 37 (4) 49 - 82

19. Two statements are given, followed by two Conclusions numbered I and II. 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 teachers are painters.
Some painters are rich.

Conclusions :

- I. All painters are teachers.
 - II. Some rich are not painters.
- (1) Only Conclusion II follows
 - (2) Neither Conclusion I nor II follows
 - (3) Only Conclusion I follows
 - (4) Either Conclusions I or II follows

20. How many triangles are there in the following figure?



- (1) 16
- (2) 30
- (3) 32
- (4) 22

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

2139 : 3246 :: 4262 : ____.

- (1) 1461
- (2) 2471
- (3) 2371
- (4) 2483

22. Select the term that will come next in the following series.

- 57, 62, 31, 36, 18, ?
- (1) 34
 - (2) 23
 - (3) 19
 - (4) 36

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

- (1) FGE
- (2) NOR
- (3) KLJ
- (4) YZX

24. Select the figure in which the given figure is embedded.



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

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



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

GENERAL AWARENESS

26. The Sepoy Mutiny in India started from ____.

- (1) Rajkot
- (2) Meerut
- (3) Bareilly
- (4) Champaran

27. What is the term of the elected representatives of a Gram Panchayat?

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

28. Marfati' songs are traditional folk songs of ____.

- (1) Afghanistan
- (2) Bangladesh
- (3) Pakistan
- (4) Nepal

29. Which scientist discovered the 'Penicillin'?

- (1) Louis Pasteur
- (2) Alexander Fleming
- (3) Robert Koch
- (4) Ernst Chain

30. Which of the following stars is nearest to the sun?

- (1) Proxima Centauri
- (2) Deneb
- (3) Sirius
- (4) Betelgeuse

31. Name the national bird of Bhutan.

- (1) Magpai
- (2) Peacock
- (3) Parrot
- (4) Raven

32. The term 'cherry picking' is used in which sport?

- (1) Table Tennis
- (2) Swimming
- (3) Basketball
- (4) Cricket

33. Which of the following creatures is oviparous

- (1) Frog
- (2) Rabbit
- (3) Mouse
- (4) Squirrel

34. The summer solstice 2019 in the Northern Hemisphere will occur on ____.

- (1) 24th June
- (2) 21st June
- (3) 26th June
- (4) 20th June

35. Jorwe culture was a Chalcolithic archaeological site located in the present day Indian state of ____.

- (1) Assam
- (2) Maharashtra
- (3) Gujarat
- (4) Bihar

36. Which of the following acids is present in ant bites?

- (1) Formic acid
- (2) Malic acid
- (3) Perchloric acid
- (4) Nitric acid

37. Which of the following authors received the Jnanpith Award in 2018?

- (1) Arundhati Roy
- (2) Vikram Seth
- (3) Kiran Desai
- (4) Amitav Ghosh

38. In India, 24th January is observed as which one of the following days?

- (1) National Farmer's Day
- (2) National Girl Child Day
- (3) National Agricultural Day
- (4) National Day of Elderly

39. Which of the following is the smallest bird in the world?

- (1) Finch
- (2) Diamond Firetail
- (3) Bee Hummingbird
- (4) Robin

40. Who among the following was named as the Chief Executive Officer of International Cricket Council (ICC) in January 2019?

- (1) Saurav Ganguly
- (2) Anurag Thakur
- (3) Manu Sawhney
- (4) N G Khaitan

41. Who was the Indian Army Chief at the time of Bangladesh Liberation War?

- (1) Roy Bucher
- (2) Rob Lockhart
- (3) K M Cariappa
- (4) Sam Manekshaw

42. The demand for a commodity or service which is a consequence of the demand for something else is called _____.

- (1) Income Demand
- (2) Direct Demand
- (3) Composite Demand
- (4) Derived Demand

43. In which year was the East India Company incorporated for the exploitation of trade with East and Southeast Asia and India?

- (1) 1612
- (2) 1605
- (3) 1600
- (4) 1596

44. Which economist gave the theory of Opportunity Cost?

- (1) Milton Friedman
- (2) Adam Smith
- (3) John Keynes
- (4) Gottfried Haberler

45. Who among the following wrote the book 'A History of the Sikhs'?

- (1) Bhal Vir Singh
- (2) Khushwant Singh
- (3) Amrita Pritam
- (4) Gurbachan Singh Talib

46. Vijay Hazare was a famous Indian player associated with the sport of _____.

- (1) Football
- (2) Cricket
- (3) Rifle Shooting
- (4) Boxing

47. Fertile riverine alluvial soil is best suited for producing _____.

- (1) rice
- (2) tea
- (3) cotton
- (4) Corn

48. The energy derived from the heat of Earth is called _____.

- (1) Geothermal Energy
- (2) Solar Energy
- (3) Biogas
- (4) Tidal Energy

49. Which article of the Constitution of India talks about the provisions for impeachment of the President of India?

- (1) Article 51
- (2) Article 61
- (3) Article 54
- (4) Article 63

50. Identify the foreigner who has been conferred the second highest civilian award in India, Padma Vibhushan for 'exceptional and distinguished service' in 2019.

- (1) John Chambers
- (2) Ismail Omar Guelleh
- (3) Pravin Gordhan
- (4) Kader Khan

QUANTITATIVE APTITUDE

51. The difference between the compound interest and simple interest on Rs. x at the rate of 8.5% per annum for 2 years is Rs. 28.90. The value of x is :

- (1) 3500
- (2) 3800
- (3) 4000
- (4) 4500

52. If $\cot \theta = \frac{3}{4}$, then $(\sin \theta + \cos$

$\theta - \tan \theta)$ is equal to :

- (1) $-\frac{1}{20}$
- (2) $\frac{2}{15}$
- (3) $\frac{1}{20}$
- (4) $\frac{1}{15}$

Directions (53-56) : The following table indicates the number of students studying in three disciplines in five colleges. Study the table carefully and answer the questions.

Disciplines	Colleges				
	A	B	C	D	E
Science	300	350	275	400	275
Commerce	250	400	325	275	250
Economics	400	450	250	300	500

53. What is the ratio of the total number of students studying in the science stream to that of studying in commerce stream in all five colleges taken together?

- (1) 16 : 15
- (2) 16 : 19
- (3) 14 : 15
- (4) 19 : 15

54. What percentage of total students are studying in the commerce stream in all five colleges together?

- (1) 28%
- (2) 30%
- (3) 32%
- (4) 33%

55. If a pie-chart is drawn representing the number of students in all five colleges, what is the central angle (correct to the nearest whole number) of the sector representing the students of college B?

- (1) 80°
- (2) 82°
- (3) 84°
- (4) 86°

56. What percentage of students in college B are studying in the science stream, (correct to one decimal place)?

- (1) 29.4%
- (2) 29.2%
- (3) 29.6%
- (4) 29.8%

57. If $\sqrt{x} + \frac{1}{\sqrt{x}} = \sqrt{6}$, then $(x^2 +$

$\frac{1}{x^2})$ is equal to :

- (1) 62
- (2) 14
- (3) 16
- (4) 36

58. The price of sugar is increased by 22%. A person wants to increase his expenditure by 12% only. By what per cent should he decrease his consumption, nearest to one decimal place?

- (1) 10%
- (2) 7.8%
- (3) 8.2%
- (4) 8.6%

59. An article is sold for Rs. 657.90 after successive discounts of 15% and 10%. What is the marked price of the article?

- (1) Rs. 920 (2) Rs. 860
(3) Rs. 900 (4) Rs. 880

60. The radii of two circular faces of the frustum of a cone of height 21 cm are 3 cm and 2 cm respectively. What is the volume of the frustum of the

$$\text{cone in cm}^3 \left(\pi = \frac{22}{7} \right) ?$$

- (1) 154 (2) 286
(3) 345 (4) 418

61. Find the value of

$$2.8 + (5.2 + 1.3 \times 2) - 6 \times 3 + 8 + 2.$$

- (1) 6.45 (2) 4.55
(3) 8.45 (4) 10.55

62. The value of $\sec^2 28^\circ - \cot^2 62^\circ + \sin^2 60^\circ + \operatorname{cosec}^2 30^\circ$ is equal to :

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

- (3) $\frac{19}{4}$ (4) $\frac{23}{4}$

63. Two articles are sold for Rs. 10,005 each. On one, the seller gains 15% and on the other, he loses 13%. What is his overall gain or loss per cent, correct to two decimal places?

- (1) 1.42% gain
(2) 1.42% loss
(3) 0.94% loss
(4) 0.94% gain

64. In ΔABC , AD is a median and P is a point on AD such that $AP : PD = 3 : 4$. Then $\ar(\Delta APB) : \ar(\Delta ABC)$ is equal to :

- (1) 2 : 7 (2) 3 : 4
(3) 3 : 7 (4) 3 : 14

65. If $a + b + c = 8$ and $ab + bc + ca = 12$, then $a^3 + b^3 + c^3 - 3abc$ is equal to :

- (1) 192 (2) 224
(3) 144 (4) 400

66. If $a : b = 5 : 3$, then $(8a - 5b) : (8a + 5b)$ is equal to :

- (1) 3 : 13 (2) 2 : 5
(3) 3 : 11 (4) 5 : 11

67. Chords AB and CD of a circle, when produced, meet at a point P outside the circle. If $AB = 6$ cm, $CD = 3$ cm and $PD = 5$ cm, then PB is equal to :

- (1) 6 cm (2) 6.25 cm
(3) 5 cm (4) 4 cm

68. A is 40% more efficient than B and C is 20% less efficient than B. Working together, they can finish a task in 15 days. In how many days, will B alone complete 75% of the task?

- (1) 36 (2) 48
(3) 32 (4) 44

69. In a circle with centre O, AB is the diameter and CD is a chord such that ABCD is a trapezium. If $\angle BAC = 25^\circ$, then $\angle CAD$ is equal to :

- (1) 45° (2) 65°
(3) 40° (4) 25°

70. If $\tan 40^\circ = \cot(20^\circ + 30^\circ)$, then θ is equal to :

- (1) 15° (2) 10°
(3) 20° (4) 25°

71. If $a + b = 5$ and $ab = 3$, then $(a^2 + b^2)$ is equal to :

- (1) 70 (2) 75
(3) 80 (4) 65

72. What is the least value of x such that 517×324 is divisible by 12?

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

73. A train without stoppage travels with an average speed of 65 km/h and with stoppage, it travels with an average speed of 52 km/h. For how many minutes does the train stop on an average per hour?

- (1) 13 (2) 15
(3) 12 (4) 14

74. The average marks of 45 students was found to be 66. If the marks of two students were incorrectly entered as 28 and 64 instead of 82 and 46 respectively, then what is the correct average?

- (1) 67.2 (2) 66.8
(3) 66.4 (4) 66.6

75. $\Delta ABC \sim \Delta QPR$ and $PQ = 6$ cm, $QR = 8$ cm and $PR = 10$ cm. If $\ar(\Delta ABC) : \ar(\Delta QPR) = 1 : 4$; then AB is equal to :

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

ENGLISH COMPREHENSION

76. Select the correctly spelt word.

- (1) tuition (2) tution
(3) tuction (4) tuttion

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

Your coming home to dinner on time **should be a rule rather the exception.**

- (1) shall be a rule rather than a exception
(2) No improvement
(3) should be a rule rather being the exception
(4) should be the rule rather than the exception

78. Select the correctly spelt word.

- (1) previledge
(2) peivallege
(3) privilege
(4) previllage

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

She got a lucrative job of a translator because she was _____ in French.

- (1) sufficient (2) efficient
(3) deficient (4) proficient

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

True friends stay by our side through thick and thin.

- (1) under all circumstances
(2) in happy moments
(3) in difficult times
(4) in different weathers

Directions (81-82) : Select the word which means the same as the group of words given.

81. One who is a great lover of books

- (1) bibliophile
(2) xenophile
(3) hemophile
(4) pedophile

82. A fictitious name used by an author

- (1) pseudonym
 (2) homonym
 (3) alibi
 (4) anonymous

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

ARROGANCE

- (1) sweetness
 (2) humility
 (3) superiority
 (4) vanity

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

A. The brain is active too during sleep, sending messages for the heart to beat regularly.

B. However, the body utilizes the sleeping time effectively.

C. We spend about one third of our time sleeping.

D. It produces energy and releases hormones for repair and growth during the night.

- (1) CBDA (2) BADC
 (3) ABDC (4) CABD

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

Knowing the particular things that motivate each person **help you add power** to their motivation.

- (1) No improvement
 (2) help you to add power
 (3) helps you add power
 (4) help you adding power

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

The committee reached _____ decision regarding the appointment of the chairman.

- (1) a compatible
 (2) a unanimous
 (3) an exemplary
 (4) an agreeable

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

There isn't many rice left in the house so we must replenish our stock soon.

- (1) our stock soon
 (2) so we must replenish
 (3) There isn't many rice
 (4) left in the house

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

MEAGRE

- (1) plentiful
 (2) inadequate
 (3) scanty
 (4) premium

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

We will all be greatly benefitted by this scheme.

- (1) This scheme has greatly benefitted us all.
 (2) This scheme would greatly benefit we all.
 (3) This scheme will greatly benefit us all.
 (4) This scheme is going to greatly benefit us all.

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

Ten kilometres are a long distance to cover on foot for a child.

- (1) Ten kilometres are
 (2) to cover on foot
 (3) a long distance
 (4) for a child

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

PERPLEX

- (1) surprise (2) bewilder
 (3) complex (4) deceive

Directions (92-96) : 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.

Leaving his car with the valet, he **(92)** the hotel and joined the large crowd milling **(93)**. He found a badge waiting for him **(94)** the receptionist's table and took his **(95)** in the rear of the hall. When the place was **(96)** the moderator welcomed the crowd.

- 92.** (1) accessed (2) entered
 (3) admitted (4) invaded

- 93.** (1) about (2) aside
 (3) into (4) out

- 94.** (1) over (2) at
 (3) in (4) by

- 95.** (1) stand (2) lounge
 (3) couch (4) seat

- 96.** (1) filled (2) completed
 (3) stuffed (4) empty

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

A. But they faced grave danger if they tried to criticize these decisions.

B. The nationalists now began to criticize the policies of the British.

C. The freedom movement changed this situation.

D. Under colonial rule, the people had lived in fear of the British government and did not agree with many of the decisions that they took.

- (1) CBAD (2) DBAC
 (3) BADC (4) DACB

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

DEFER

- (1) dread (2) despair
 (3) dictate (4) delay

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

The sailors had never encountered such a rough sea.

- (1) Such a rough sea was never encountered by the sailors.
 (2) Such a rough sea had never been encountered by the sailors.
 (3) Such a rough sea has never been encountered by the sailors.
 (4) Such a rough sea is never encountered by the sailors.

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

Due to increased number of layoffs in the industry, **the sword of Damocles** is always hanging over the employees.

- (1) strict rules and regulations
 (2) an ill omen of death
 (3) a constant threat
 (4) threat of physical harm