

## GENERAL KNOWLEDGE

1. The first Delhi master plan was drawn up in the year :
- (1) 1962 (2) 1965  
(3) 1972 (4) 1982
2. The Supreme Court of India functioned from which place until 1958 when it moved to its present building on Tishah Marg :
- (1) Hyderabad House  
(2) The Parliament House  
(3) Baroda House  
(4) The President's House
3. The President of India is elected by the members of an electoral college comprising of :
- (1) The members of both Houses of the Parliament  
(2) The members of both Houses of the Parliament and the Legislative Assemblies of the States  
(3) The elected members of both Houses of the Parliament and the elected members of the Legislative Assemblies of the States  
(4) The elected members of both Houses of the Parliament, the elected members of the Legislative Assemblies of the States and the elected members of the local bodies
4. Which of the following Article of Constitution of India entrusts parents with the responsibility of providing opportunities for education to their children ?
- (1) Article 51 (A)  
(2) Article 51 (A)  
(3) Article 43  
(4) Article 350(A)

5. In which case, it was held by the Supreme Court that 'Precedent is the basic feature of the Constitution' ?
- (1) In re: Chhibber case  
(2) In re: Maneka Gandhi  
(3) In re: Minerva Mills  
(4) In re: Kesavananda Bharati
6. The first district of India with complete rural broad based coverage is :
- (1) Salem  
(2) Idukki  
(3) Gandhinagar  
(4) Vahakhapalanam
7. The book titled 'George Yore Parrot' has been authored by :
- (1) Mr. Pranab Mukherjee  
(2) Dr. A.P.J. Abdul Kalam  
(3) Mr. Narendra Modi  
(4) Dr. Manmohan Singh
8. Haryana State is associated with :
- (1) Archery  
(2) Shooting  
(3) Weightlifting  
(4) Boxing
9. Thomas and Uber Cup is related to which game ?
- (1) Badminton  
(2) Cricket  
(3) Tennis  
(4) Table Tennis
10. The three Rs which can help us to conserve natural resources for long term use are :
- (1) Recycle, Regenerate, Reuse  
(2) Reduce, Regenerate, Reuse  
(3) Reduce, Reuse, Recycle  
(4) Reduce, Recycle, Reuse

11. Release of which gas shall cause global warming ?
- (1) Greenhouse Gases  
(2) Inert gases  
(3)  $SO_2$   
(4) Chlorine
12. Garuda-V concluded recently, is a joint exercise between the air forces of India and :
- (1) Japan (2) Canada  
(3) Russia (4) France
13. India's first CNG powered train was recently inaugurated by Railway's Minister flagging off in :
- (1) Uttar Pradesh  
(2) Haryana  
(3) Rajasthan  
(4) J & K
14. Which is not a type of wett ?
- (1) Mandamus  
(2) Habeas Corpus  
(3) Magna Carta  
(4) Quo Warranto
15. The second largest mangrove forest of India is :
- (1) The Krishna delta  
(2) The Kerala backwaters  
(3) The Bhitarkanika in Odisha  
(4) Sukhichal
16. Tide caused by the gravitational pull of the moon and sun together in the same direction is called :
- (1) Spring Tide  
(2) Neap Tide  
(3) Tidal Wave  
(4) Tidal Bore

17. Shigma is one of the prominent festival of the

- (1) Tarel Community
- (2) Beehals Community
- (3) Konkani Hindu Community
- (4) Masika Community

18. This is an instrument that is a set of sensors and is capable of providing measurements of temperature, wind speed and direction, pressure, relative humidity and dust size and shape in situ:

- (1) HMPAR (2) SHEPLOC
- (3) MEDA (4) MOXK

19. "Equinox" relates to

- (1) Equal temperature in all locations
- (2) Closeness to the equator
- (3) Period of equal days and nights
- (4) Equal distribution of wealth

20. What is the child sex ratio as per the census report of 2011 ?

- (1) 914 females per 1000 males
- (2) 1000 males per 940 females
- (3) 917 females per 1000 males
- (4) 872 females per 1000 males

21. A fighter plane travelling at mach 3 has a speed in miles per hour closest to the figure:

- (1) 1000
- (2) 700
- (3) 2000
- (4) 1500

22. In summer a cloudy night is hotter than a starlit night because

- (1) Clouds do not allow cold air to reach Earth.
- (2) Clouds prevent the heat radiated by the Earth from escaping to the sky
- (3) Clouds work as a thick blanket and reproduce heat
- (4) Heat is generated by clouds and radiated back to Earth

23. Newton's 1st law of motion is also known as:

(1) Law of acceleration

(2) Law of speed

(3) Law of gravity

(4) Law of inertia

24. The Economy of India is the \_\_\_\_\_ largest in the world by purchasing power parity.

- (1) Second (2) Third
- (3) Tenth (4) Fifth

25. Which of the following Act governs the foreign exchange in India now :

- (1) FEMA (2) LIBOR
- (3) FDI (4) FEMA

### MATHEMATICS

26. A and B are two alloys of gold and copper prepared by mixing metals in the ratios 5 : 3 and 5 : 11 respectively. Equal quantities of these alloys are melted to form a third alloy C. The ratio of gold and copper in the alloy C is:

- (1) 20:25 (2) 25:20
- (3) 17:15 (4) 15:17

27. The average of eight numbers taken together is 12. Two of these numbers are 0 and the remaining numbers are equal. What is the value of the numbers number ?

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

28. A number consists of three digits. The middle figure is the sum of the other two. The first figure is equal to the square of the third. The number is:

- (1) 121 (2) 442
- (3) 900 (4) None of these

29. Choose the correct statement:

- (1) An Irrational Number is a real number that cannot be written as a simple fraction.
- (2) A Rational Number is a real number that cannot be written as a simple fraction.

(3) An Irrational Number is a real number that can be written as a simple fraction

(4) A Rational Number is a real number that cannot be written as a complex fraction

30. Total expenses of a boarding house are partly fixed and partly varying linearly with the number of boarders. The average expense per boarder is Rs. 700, when there are 25 boarders and Rs. 600, when there are 50 boarders. What is the average expense per boarder when there are 100 boarders ?

- (1) Rs. 540
- (2) Rs. 540
- (3) Rs. 550
- (4) None of these

31. If Rs. 200 doubles in 10 years at a simple rate of interest, what is the rate of interest ?

- (1) 5% (2) 10%
- (3) 8% (4) None of these

32. The average age of the boys in a class of 30 boys is 14.5 years. What will be the average age if 10 new boys come whose average is 15.2 years, and joins them ?

- (1) 15.5 years
- (2) 14.68 years
- (3) 15.28 years
- (4) None of these

33. If a boy takes as much time in running 20 metres as a car takes in covering 50 metres, the distance covered by the boy during the time the car covers 1 km, is :

- (1) 400 metres
- (2) 500 metres
- (3) 40 metres
- (4) 20 metres

34. Find the value of  $\sqrt{50000}$  :

- (1) 20 (2) 300
- (3) 200 (4) None of these

**Directions :** The questions are

based on the following information :

Out of the total 200 students studying in a college of Arts and Science, boys and girls are in the ratio of 7:6 respectively and the number of students studying Arts and Science are in the ratio of 3:7 respectively. The boys and girls studying Arts are in the ratio of 4:5 respectively.

30. How many boys are studying Science?

- (1) 100  
(2) 160  
(3) 138  
(4) None of these

31. Two perpendicular cross roads of equal width run through the middle of a rectangular field of length 80 metre and breadth 60 metre. If the area of the cross roads is  $675m^2$ , what is the width of the road?

- (1) 5 metres  
(2) 6 metres  
(3) 9 metres  
(4) None of these

32. Two trains start simultaneously from Kanpur and Agra towards each other with speeds of 70 km/hr and 60 km/hr respectively. When they meet each other it was observed that one of them had covered 350 km more than the other. Find distance between Kanpur and Agra.

- (1) 2400 km (2) 2550 km  
(3) 2700 km (4) 2850 km

33. What value should come in place of the  $x$ ?

$$\sqrt{45} = \sqrt{5x} \times \sqrt{31} = x$$

- (1) 804 (2) 400  
(3) 504 (4) 504

34. Two trains leave stations P and Q, 110 km apart. Train from P to Q travels at 25 km/hr and train from Q to P at 30 km/hr. If they both start at 6 AM, they meet at:

(1) 10:40 A.M.

(2) 09:00 A.M.

(3) 09:45 A.M.

(4) None of these

35. The radii of two cylinders are in the ratio 5:3 and their heights are in the ratio 5:3. The ratio of their volumes is:

- (1) 37:30 (2) 20:27  
(3) 4:9 (4) 5:4

36. The base of a triangular field is 3 times its altitude. If the cost of cultivating the field at ₹ 200 per hectare is ₹ 3780. find its base and altitude:

- (1) Base 600 m, Altitude 200 m  
(2) Base 300 m, Altitude 600 m  
(3) Base 300 m, Altitude 300 m  
(4) None of these

37. An article cost ₹ 80 to the vendor. If he marks the article for 50% more than the cost price and sells it 25% less than the marked price, what is his gain percentage?

- (1) 25% (2)  $21\frac{1}{4}\%$   
(3)  $13\frac{1}{2}\%$  (4)  $15\frac{1}{2}\%$

38. A sum of money invested at compound interest amounts in 3 years to ₹ 800 and in 4 years to ₹ 840. What is the percentage rate of interest?

- (1) 2% (2) 4%  
(3) 3% (4) 10%

39. If the numerator of a fraction is increased by 200% and the denominator is increased by 300%, the resultant fraction is

$$\frac{a}{11}. \text{ What was the original}$$

fraction?

- (1)  $\frac{5}{11}$  (2)  $\frac{7}{11}$   
(3)  $\frac{8}{13}$  (4)  $\frac{8}{11}$

40. If the difference between simple and compound interest on some principal amount at 20%

per annum for three years is ₹ 48, then the principal amount is:

- (1) ₹ 450 (2) ₹ 375  
(3) ₹ 300

(4) None of these

41. A train passes through a tunnel whose length is 500 metres in 1 minute while running at a speed of 72 km per hour. The length of the train is:

- (1) 750 metres  
(2) 700 metres  
(3) 800 metres  
(4) None of these

$$42. \frac{\sqrt{441}}{63} = \frac{\sqrt{81}}{3} = ?$$

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

43. The C.P. of two shirts taken together is ₹ 840. If by selling one at a profit of 10% and the other at a loss of 12%, there is no loss or gain in the whole transaction, then the C.P. of the two shirts are respectively:

- (1) ₹ 360, ₹ 480  
(2) ₹ 450, ₹ 390  
(3) ₹ 380, ₹ 460  
(4) None of these

44. The breadth of a rectangular plot is decreased by 20 percent. By what percent should the length be increased to keep the area same?

- (1) 25 (2) 30  
(3) 20  
(4) None of these

45. A box contains 85 nuts each of 100 gms. and 94 bolts each of 150 gms. If the entire box with its contents weighs 43.5 kgs, then what is the weight of the empty box?

- (1) 30.5 kgs. (2) 21.5 kgs.  
(3) 18.5 kgs. (4) None of these

## GENERAL ENGLISH

51. Choose the correct alternative to complete the sentence.  
I bought this book ..... ten rupees.

(1) in (2) at  
(3) for (4) by

52. Find the one word substitution in the following questions.  
A place where bees are kept is called:

(1) an apixy (2) a mole  
(3) a hive (4) a sanatory

53. Given below are the four spellings of the same word. Choose the correct one.

(1) Anonymus  
(2) Anonemous  
(3) Anonymous  
(4) Anonymous

54. Which of the following will sting?

(1) Dog (2) Scorpion  
(3) Cat (4) Lizard

55. Identify the sentence with no adverb:

(1) He behaves best.  
(2) She sings well enough.  
(3) He is the best boy in the class.  
(4) The patient is much better.

56. Choose the one word or phrase that best completes the sentence.

He is ..... sports.

(1) fond to play  
(2) fond of playing  
(3) fond in playing  
(4) fond at playing

57. In this question fill in the blank in the sentence with correct option.

They still think that women are inferior ..... men:

(1) to (2) than  
(3) from (4) by

58. Fill in the blanks in the following sentence by using a correct article.

I met ..... one-eyed man on the road.

(1) a (2) an  
(3) the (4) None of these

59. In this question choose the correct alternative to complete the sentence.

I first ..... him in 1966.

(1) meet (2) have met  
(3) met (4) had met

60. Select the word which best conveys the meaning of the word from the words given below.

INMATEABLE

(1) With (2) Angry  
(3) Quick (4) Greedy

61. Choose the word opposite in meaning to the given word.

FRUGAL

(1) Glutinous  
(2) Miserly  
(3) Miserful  
(4) Extravagant

62. Identify the plural word among the following alternatives:

(1) Syllabus  
(2) Curricula  
(3) Agenda  
(4) Radius

63. Complete the phrase:  
"Barring the odds of both ....."

(1) sides (2) ends  
(3) tips (4) flames

64. Choose the correct passive voice of the sentence given in the question.

In the noise not disturbing the old man?

(1) Is the old man not being disturbed by the noise?  
(2) Whether the old man is not being disturbed by the noise?  
(3) Is the old man not being disturbed by the noise?  
(4) Let the old man not be disturbed by the noise.

65. In the following question, identify the correct reported speech from the given alternatives.

He said to his wife "How many people were coming to dinner tonight?"

(1) He asked his wife how many people were coming to dinner tonight.  
(2) He asked his wife how many people had been coming to dinner that night.  
(3) He called his wife how many people were coming to dinner that night.  
(4) He narrated his wife how many people are coming to dinner that night.

66. Change the following sentence into reported speech.

I said, "Will you stop that noise?" "No," said the boy"

(1) I asked the boy if he would stop that noise and he replied that he would not (stop that noise).  
(2) I told the boy if he would stop that noise and he said no.  
(3) I said to the boy if he will stop that noise and he said that he would not.  
(4) I asked the boy whether he would stop that noise and he replied in negative.

67. Choose the correct passive voice of the sentence given in the question.

Meera should write a book.

(1) A book should have been written by Meera.  
(2) A book shall be written by Meera.  
(3) A book should be written by Meera.  
(4) A book shall have been written by Meera.

68. Choose the correct passive voice of the sentence given in the question.

Have you shut the door?

(1) Has the door been shut by you?  
(2) Have the door been shut by you?  
(3) Has the door been shut?  
(4) Have the door being shut by you?

69. Choose the correct alternative to complete the sentence.

The child ..... if the train had not stopped quickly.

(1) will have been killed  
(2) would have been killed  
(3) had been killed  
(4) had had been killed

70. In the following question, select the appropriate word that best represents the given set of words.

A person whose thoughts are turned inward:

- (1) Extrovert (2) Invertebrate  
(3) Intelligent (4) Introvert

71. In the following question pick the wrongly spell word.

- (1) Absorbtly  
(2) Aberrant  
(3) Abstinent  
(4) Absorption

72. What shall be correct combination of two simple sentences into a complex sentence by using an adverbial clause.

The chief guest entered the hall. The audience clapped.

- (1) The audience clapped as the chief guest entered the hall.  
(2) The audience clapped upon the chief guest entering the hall.  
(3) The audience was clapping when the chief guest entered the hall.  
(4) The audience had to clap when the chief guest entered the hall.

73. In the following question pick the wrongly spell word.

- (1) Autopsy (2) Autocratic  
(3) Aloward (4) Asylan

74. The following sentence has been broken in three parts (I), (2) and (3). If there is any grammatical error in any of these parts, that is your answer. If there is no error, the answer is (4).

The teacher punished him (I) and made him write (2)/ fifty times. (3)/ No error (4)

75. In this question, out of four alternatives choose the one which can be substituted for the given words / sentence.

One who studies election trends by means of opinion polls

- (1) Entomologist  
(2) Psychologist  
(3) Demagogue  
(4) Biologist

## REASONING

76. Pick the odd one out.

- (1) Granite  
(2) Amethyst  
(3) Lignite  
(4) Diamond

**Directions :** Select the suitable alternative to satisfy the relationship in following question.

77. Question Figure



Answer Figure



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

**Directions :** Complete the following figural series.

78. Question Figure



Answer figure



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

**Directions (79-80) :** In each of the following questions, a question is posed followed by two statements, I and II. Select the answer choice as follows.

- (1) If statement I alone is sufficient to answer the question.  
(2) If statement II alone is sufficient to answer the question.  
(3) If statements I and II are required to answer the question.  
(4) If statements I and II together are insufficient and more data is needed to answer the question.

**Question**

79. Will the power position become satisfactory within three years due to privatisation of distribution in Delhi?

## Statements :

- I. Distribution losses will be cut by 30% in the next three years.  
II. Power requirements are growing by 10% each year.
- (1) 1 (2) 2  
(3) 3 (4) 4

**Question**

80. How many boys did eventually qualify for joining a public sector out of 2100 who applied?

**Statements :**

- I. 800 qualified in the written test.  
II. The overall success rate this time was 17% as against 15% last year.
- (1) 1 (2) 2  
(3) 3 (4) 4

**Directions :** A logical diagram is drawn following by four choice groups. Select the choice which fit the logic of the diagram.

81.



- (1) Unions, Marists, Naxals  
(2) Teachers, Mothers, Doctors  
(3) Musicians, Drummer, Scientist  
(4) Library, Books, Furniture

**Directions :** In the following question, select the choice which completes the series.

82. 123, DEF, 567, JKL, ?

- (1) 13, 14, 15  
(2) MNO  
(3) 10, 11  
(4) PQR

**Directions :** In the following figure, the circle stands for criminal background, the Hexagon stands for political, the triangle stands for rural and rectangle stands for wealthy. Study the figure carefully and answer the questions that follow.



85. Rural politicians who are neither wealthy nor having criminal backgrounds are indicated by the regions

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

86. Four friends X, Y, Z and W distribute some money among themselves in such a manner that X gets one less than Y, Z gets 3 more than W, W gets 3 more than Y. Who gets the smallest amount?

(1) X                      (2) Y  
(3) Z                      (4) W

87. In a row of children, Manoj is tenth from the left end and Kamal is thirteenth from the right end. Viral is twentieth from the right end and third to the right of Manoj. How many children are there between Manoj and Kamal?

(1) 8  
(2) 9  
(3) 10

(4) None of these

88. If 1 is coded as R, 2 as T, 3 as Z, 4 as B, 5 as O, 6 as L, 7 as C, 8 as J, 9 as V, which of the following is the coded form of 380914?

(1) TRJBCVLE  
(2) TRJBCVLF  
(3) TRJBCVLT  
(4) None of these

89. In a certain code STREAMLINE is written as ENFWLTHMHRK. How is SCIENTIFIC written in that code?

(1) OFJDTBHGHS  
(2) OFJDTDQJFU  
(3) OFJTDHSHH  
(4) OFJDTDQJUT

90. In the following question pick the odd one out.

(1) Degree    (2) °  
(3) Milligram  
(4) Radian

91. In the following number series only one number is wrong. Find out the wrong number.

1, 4, 27, 326, 3125, 46656  
(1) 4                      (2) 46656  
(3) 27                      (4) 3125

- Directions :** Select the choice out of the given choices which gives the given words in the correct alphabetical order.

92. Nasal, New, Nine, Noble:

(1) Noble, New, Nasal, Nine  
(2) Nine, Noble, New, Nasal  
(3) Nasal, New, Nine, Noble  
(4) New, Nasal, Nine, Noble

- Directions :** A cube of side four inch is painted red, blue and black on the pairs of opposite faces. It is then cut into smaller cubes of side one inch each.

93. How many cubes have two faces painted black?

(1) 20                      (2) 16  
(3) 8                      (4) 0

94. Select the suitable alternatives to complete the series.

$\frac{1}{81}, \frac{1}{24}, \frac{1}{36}, \frac{1}{24}, \dots$

(1)  $\frac{1}{32}$                       (2)  $\frac{1}{9}$   
(3)  $\frac{1}{18}$                       (4)  $\frac{1}{18}$

95. A man stands on a tower and sees two hill peaks one in the North East and one in the North West. Both peaks are at the same distance from the tower. He goes and climbs the top of peak in the North East, and looks at the other peak. Which direction does he look to do so?

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

- Directions (94-95) :** In the following questions an argument is followed by two statements. Pick the choice as follows.

(1) If statement I strengthens the argument.

(2) If statement II strengthens the argument.

(3) If both statements I and II strengthen the argument.

(4) Neither statement I nor II strengthens argument.

96. Defeat every successful man there is a woman:

I. Women are more successful than men.

II. Married men lead happier lives than unmarried ones.

(1) I                      (2) II  
(3) 3                      (4) 4

97. Money is the sole motivator for the labour in the Indian industry, towards achieving better productivity:

I. Trade union demands put up to management mostly pertain to pay packages.

II. In a recent study by a major management institute 50% workers indicated recognition as a greater motivator than money.

(1) I                      (2) II  
(3) 3                      (4) 4

98. If a cock a, b, c means 'try your best'  
b, c, p, e means 'try again & again'

x, y, a means 'all the best'  
Then 'your best again' is represented by:

(1) c-a-e                      (2) p-c-c  
(3) c-p-p                      (4) y-c-a

- Directions :** In the following question two statements are given followed by two conclusions I and II. The two statements are to be considered true. Pick the answer choice as follows.

- (1) If only conclusion I follows  
 (2) If only conclusion II follows  
 (3) If both conclusion I and II follow  
 (4) If neither conclusion I nor II follows

87. **Statements :** Some teachers are adults. Some adults are poets.

**Conclusions:**

- I. Some teachers are poets.  
 II. Some poets are teachers.

- (1) I                      (2) II  
 (3) III                  (4) IV

**Directions (88- 100) :** Read the following information and give answer on the basis of the facts given below.

(A) There are seven males Ram, Shyam, Sanjay, Rajiv, Rohit, Ramesh, and Ran. Their dates of birth are 10, 8, 18, 7, 24, 23, 22 respectively and their places of birth are Uttar Pradesh, Madhya Pradesh, Maharashtra, Delhi, Tamil Nadu, Uttarakhand, and Himachal Pradesh respectively.

(B) There are seven females Anita, Madhu, Vandana, Shikha, Manita, Guddi and Raniita. Their dates of birth are respectively 14, 18, 15, 10, 22, 7, 8 and their places of birth are Uttar Pradesh, Madhya Pradesh, Maharashtra, Delhi, Tamil Nadu, Uttarakhand and Himachal Pradesh respectively.

(C) There are seven mobile numbers - 9811150420, 9811154320, 9812440335, 9814523732, 9818568771, 9800154320, 9811075447.

(D) There are seven cars with vehicle number- 1988, 4567, 1945, 2767, 2807, 3007, 3810. All the above males and females follow numerology and find their one digit lucky number by adding the digits of their date of births. Males marry those females whose one digit

lucky number matches their one digit lucky number. The spouses will buy vehicle and mobiles which satisfies their one digit lucky number. The digits of the mobile or vehicle, or date of birth's are added to find a one digit lucky number. For example, one digit lucky number of mobile 9811150420 will be "2"

$(9+8+1+1+1+5+0+4+2+0+2+4)=36$ , again  $3+6=9$ , again  $9+9=18$ , again  $1+8=9$

88. Which of the following statements is incorrect ?

- (1) Uttar Pradesh born boy has been married to Delhi born girl  
 (2) Uttarakhand born boy has been married to Madhya Pradesh born girl  
 (3) Delhi born boy has been married to Uttarakhand born girl  
 (4) Tamil Nadu born boy has been married to Maharashtra born girl

89. If all males and females are married among them matching their one digit lucky number, which of the following statements is correct ?

- (1) Two pairs of husbands and wives have been born in the same State  
 (2) Four pairs of husbands and wives have been born in the same State  
 (3) One pair of husband and wife has been born in the same State  
 (4) None of the pairs of husbands and wives have been born in the same State

90. Find the correct pair of husband and wife matching their one digit lucky number:

- (1) Rajiv and Madhu  
 (2) Ravi and Vandana  
 (3) Ramesh and Guddi  
 (4) Shyam and Raniita