



- Which of the following process is involved in the industrial production of vegetable ghee?
a) **Reduction** b) Oxidation c) Ionization d) None of these
- Which is the only non-metal which reacts with air to form its oxide by burning?
a) Red Phosphorus **b) White Phosphorus**
c) Black Phosphorus d) None of these
- Litmus paper is extracted from which of the following plant?
a) Fern b) Lily **c) Lichens** d) All of these
- Due to which of the following phenomenon, an object such as tree appears to be inverted and appears to be on the bank of a pond?
a) Scattering of light b) Tyndall effect
c) Refraction **d) Mirage**
- When a running horse stops suddenly, the rider bends forward. This occurs due to which of the following phenomenon?
a) Force b) Impulse **c) Inertia** d) None of these
- What is the effect on the weight of the body when the lift gets broken and its falls freely?
a) Increases b) Decreases
c) First increases then decreases **d) Becomes zero**
- By which constitutional amendment, the age of voting was reduced from 21 to 18 years?
a) 24 amendment **b) 61 amendment**
c) 62 amendment d) None of these
- What is the minimum age for employment in any factory or mine?
a) 18 years b) 15 years **c) 14 years** d) 16 years

9. 'Smart-Village campaign' is approved by which state of India?
a) **Punjab** b) Orissa c) Andhra Pradesh d) Tamil Nadu
10. Who become the first Asian women to play 100 T20's?
a) Smriti Mandhana b) **Sana Mir** c) Mithali Raj d) None of these
11. 'Sopan Festival 2019 was celebrated in which of the following state?
a) Mumbai b) **New-Delhi** c) Haryana d) None of these
12. Which of the following sign is used to specify a cell range?
a) *(asterisk) b) /(slash) c) **:(colon)** d) None of these
13. Which of the following source code is highly protected and is only available to trusted employees?
a) Machine code b) Open-source c) **Closed-source** d) Both a and c
14. Which of the following process is used by large retailers to study the trends?
a) POS b) **Data-mining** c) Both a and b d) None of these
15. When an extra chromosome is added to 21st chromosome. It leads to which genetic disorder?
a) Hemophilia b) Color-blindness
c) **Down's Syndrome** d) Turner's Syndrome
16. Which of the following algae is also known as Space-algae?
a) Ulva b) Nostoc c) Fucus d) **Chlorella**
17. The iron compound found in haemoglobin is called as?
a) Globin b) **Haematin**
c) Both a and b are present d) None of these
18. which country recently became the 30th member of NATO?
a) Belgium b) Canada c) **Macedonia** d) Portugal
19. what is the rank of India in international intellectual property index?
a) **36th** b) 21st c) 39th d) None of these
20. What is the amount allocated for the conservation of Asiatic lions in gir forest of Gujarat?

- a) 58 crore b) 48 crore **c) 59 crore** d) 100 crore
21. Which is the third official court language included in Abu-dhabi?
a) English **b) Hindi** c) Urdu d) Arabic
22. Which of the famous personality is known as Haryana Hurricane?
a) Rabindranath tagore b) Jagjeevan ram
c) Dhyanchand **d) Kapil Dev**
23. International Civil aviation day is Celebrated on which day?
a) 17 November b) 21 October c) 5 December **d) 7 December**
24. Which of the following state in India has the maximum forest area?
a) Orissa **b) Madhya Pradesh**
c) Karnataka d) Chennai
25. United Nations Conference On trade and Development (UNCTAD) is Headquartered In?
a) Geneva, Switzerland b) Washington DC, US
c) New-York, US d) None of these
26. Which is the largest sweet water lake in the world?
a) Great slave b) Malawi **c) Lake Superior** d) Victoria
27. Which place is known as the place of midnight sun where the sun is continuously visible between May and July?
a) Greece b) Italy **c) Norway** d) None of these
28. LOC between India and Pakistan was constructed in which year?
a) 1981 b) 1990 **c) 1972** d) 1968
29. Market situation in which single seller has full control over the price is known as?
a) Monopoly Market b) Oligopoly
c) Perfect Competition d) None of these
30. Which among the following was the ancient port of Indus civilization?
a) Lothal b) Dholavira c) Banawali d) Daimabad
31. Ross Island of Andaman and nicobar was renamed as?
a) Shaheeddweep

- b) Swarajdweep
c) **Netajisubhash Chandra bosedweep**
d) None of these
32. Who has been appointed as the new Information chief commissioner by the government of India?
a) Ajay Mishra b) Ram Mathur c) **Sudhirbhargava** d) None of these
33. In which country Chitwan National park is located?
a) India b) **Nepal** c) Bangladesh d) None of these
34. When BetiBachaoBetiPadhaoYojna was launched?
a) **22 January 2015** b) 18 August 2015
c) 20 January 2016 d) None of these
35. Which of the following dance forms originated in the Temples of Tamil Nadu?
a) Kathak b) Kuchipudi c) Dumhal d) **Bharatnatyam**
36. Which state got a separate high court on 1st January 2019 and is the 25th high court of India?
a) Sikkim b) Telangana c) Madhya Pradesh d) **Andhra Pradesh**
37. Who among the following took charge as the new chairman of the railway board?
a) Manoj Kumar b) Deepak Saini c) Ramesh mathur d) **VkYadav**
38. Umred-pauni-karhandla wildlife sanctuary is located in?
a) Mathura b) Andhra Pradesh c) **Maharastra** d) Karnataka
39. In which year Captain Hawkins was arrived the royal court of Jahangir for the first time?
a) 1605 b) **1609** c) 1700 d) 1681
40. Who established the first printing press in India?
a) Dutch b) English c) Both a and b d) **Portugese**
41. **Statement :**
Should internal assessment in colleges be abolished?
Arguments:
I. Yes, This will help in reducing the possibility of favoritism.
II. No, teaching faculty will lose control over students.

- a) **The only argument I is strong**
- b) Only argument II is strong
- c) Either I or II is strong
- d) Neither I nor II is strong.

42. **Statement :**

Should Indian scientists working abroad be called back to India?

Arguments:

I. Yes , They must serve the motherland first and forget about discoveries, honors, facilities and all.

II. No, We have enough talent; let them stay where they want.

- a) The only argument I is strong
- b) Only argument II is strong
- c) Either I or II is strong
- d) **Neither I nor II is strong**

43. Select one alternative out of (a), (b), (c) and (d) which is analogous to the first two.

Aga Khan cup : Hockey : : Charminartrophy : -----

- a) Badminton
- b) Athletics**
- c) Billards
- d) Boxing

44. Species : Genera : Family

- a) These are biological terms
- b) These give information about living things for classification
- c) These are trains of animal kingdom**
- d) These are groups of animals

45. Select the correct set of symbols

$$24 _ 6 _ 3 _ 2 = 50$$

- a) $\times \div +$
- b) $\times + \div$
- c) $\div \times +$
- d) None of the above

46. Find the odd one out from the following

Andhra Pradesh, Jammu and Kashmir, Chhattisgarh, Maharashtra

- a) Andhra Pradesh
- b) Jammu and Kashmir
- c) Chhattisgarh
- d) Maharashtra

47. Introducing a person, Raunak said he is the only son of my father's father. How is Raunak related to him?

- a) son**
- b) Brother
- c) Nephew
- d) Grandson

48. If in a certain code MANGO is written as LBLIL then in the same code how MONKS is written?
 a) **LPLMP** b) PLLMP c) LPMPL d) MLPAL
49. If in a certain languages, MADRAS is coded as NBESBT, how is BOMBAY coded in that code?
 a) CPNCBX **b) CPNCBZ** c) CPOCBZ d) CQOCBZ
50. If ROSE is coded as 6821, CHAIR is coded as 73456 and PREACH is coded as 961473, what will be the code for SEARCH?
 a) 246173 **b) 214673** c) 214763 d) 216473
51. If Z = 52 and ACT = 48, then BAT will be equal to
 a) 39 b) 41 c) 44 **d) 46**
52. If a train is called the bus, a bus is called tractor, the tractor is called car, the car is called scooter, a scooter is called bicycle, a bicycle is called moped, which is used to plow a field?
 a) Train b) Bus **c) Car** d) Tractor
53. If E = 5 and READ is coded as 7, then what is the code of 'DEAR'?
 a) 6 **b) 7** c) 8 d) 9
54. If Monday falls on 5th of a month, then which day will fall three days after the 26th?
 a) Monday b) Tuesday c) Wednesday **d) Thursday**
55. If every second Saturday and all Sundays are holidays in 30 days month beginning on Saturday, then how many working days are there in that month? (Month starts from Saturday)
 a) 20 b) 21 c) 22 **d) 23**
56. In a row of students, Ravi is 9th from the left and Suresh is 6th from the right. When they both interchange their positions then Ravi will be 15th from the left. What will be the position of Suresh from the right?
 a) 6th **b) 12th** c) 13th d) 15th
57. In a line of students, Mahesh is on 15th position from right and Dheeraj is on 18th position from left. When they both interchange their positions then Mahesh is on

20th position from the right. What will be the position of Dheeraj from left?

- a) 18th b) 24th c) **23rd** d) 20th

58. Choose the word which is least like the other word in a group?

- a) Parrot b) Vulture c) **Swan** d) Sparrow

59. Choose the pair in which the words are differently related?

- a) **Man : Mob** b) Cow : Herd c) Sheep : Flock d) Fish : Shoal

60. Choose the number which is different from others in the group?

- a) 137 b) 177 c) **121** d) 183

61. Match : Victory : : Examination : ?

- a) Write b) Appear c) **Success** d) Attempt

62. Below are given statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with the commonly known facts and then decide which of the given conclusions logically follow(s) from the given statements.

Statements:

- A. All boys are monkeys.
B. Some plants are monkeys.

Conclusions:

- I. Some monkeys are boys.
II. All plants are boys.

Decide which of the below conclusions logically follows from the given statements.

- a) **Only conclusion I follows** b) Only conclusion II follows
c) Both I and II follows d) Neither of them follows

63. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(5, 24, 7)

- a) **(8, 80, 12)** b) (10, 71, 13) c) (9, 63, 14) d) (6, 75, 11)

64. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(17, 12, 7)

- a) (42, 34, 27) b) (23, 32, 39) c) **(15, 19, 23)** d) (39, 28, 19)

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

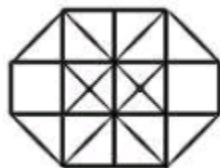
1. Child
2. Marriage
3. Infant
4. Employment
5. Education

- a) 4, 1, 3, 5, 2 b) **3, 1, 5, 4, 2** c) 3, 5, 2, 4, 1 d) 5, 2, 4, 1, 3

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



a)



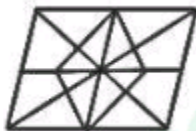
b)



c)



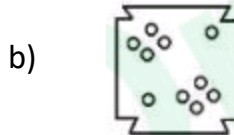
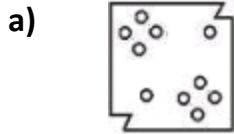
d)



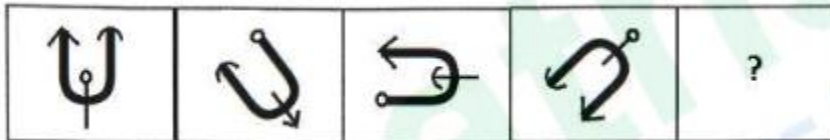
67. A square paper is folded and cut as shown below. How will it appear when

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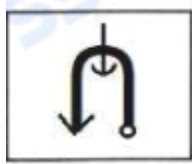
unfolded?



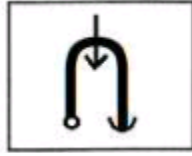
68. Select the figure that will come next in the following figure series.



c)



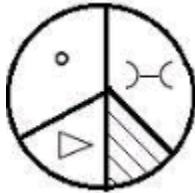
d)



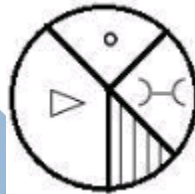
69. Select the mirror image of the given figure when the mirror is placed to the right of the figure



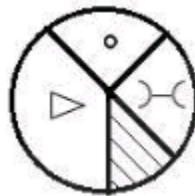
a)



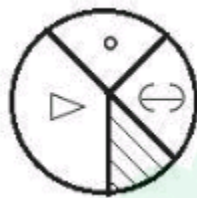
b)



c)



d)



70. Select the combination of letters that when sequentially placed in the gaps of the given letter series.
ca _ bab _ ad _ ab _ ad _ ab
a) bcdcb b) cdbcd **c) dcbcb** d) dcabc
71. 12 persons working 8 hours a day can complete a work in 10 days. In how many days 18 persons working 7 hours day will complete 70% of work?
a) 9 days **b) 513 days** c) 615 days d) 412 days
72. Let $\Delta ABC \sim QPR$ and $a(ABC)ar(PQR)=116$. If $AB = 3$ cm, $BC= 5$ cm an $AC = 7$ cm, then PQ is equal to
a) 12 cm b) 9 cm c) 15 cm d) 18 cm
73. ABCD is a cyclic quadrilateral such that AB is a diameter of the circle circumscribing it and $\angle ADC = 145^\circ$. What is the measure of the $\angle BAC$?
a) 65° b) 75° c) 45° **d) 55°**
74. From the top of a 100 m high tower, the angle of depression of the top of a pole is 30° and the angle of depression of the foot of the pole is θ , such that $\tan\theta = 23$. What is the height of the pole?
a) $50(2-\sqrt{3})m$ b) $50(2+\sqrt{3})m$ c) $100(2+\sqrt{3})m$ d) $100(2-\sqrt{3})m$
75. What is the ratio of mean proportion between 4.9 and 16.9 and third proportion between 3 and 7?
a) 61 : 59 b) 11 : 13 c) 43 : 57 **d) 39 : 70**
76. If $x+1x=3$, find $x^5+1 x^5$
a) 125 b) 128 **c) 123** d) 121
77. If $\sec 3x = \operatorname{cosec} (4x-35^\circ)$, then x equal to
a) 19.2 b) 18.3 **c) 17.8** d) 14.7
78. A cuboid of edge 32 cm, 8 cm, 6 cm, is cut to form cube of edge 4 cm each. What is the sum of total surface area of all cubes formed?
a) 2304 cm^2 b) 2010 cm^2 c) 2107 cm^2 d) 2086 cm^2
79. If $a^3 - b^3 = 4104$ and $(a-b) = 6$, find $(a+b)^2 - ab$ is equal to
a) 592 **b) 684** c) 618 d) 612

80. In an examination, 33% passed in science and 57% failed in mathematics. If 41% failed in both subjects, what percentage passed in both subjects?
 a) 21% b) 23% c) **17%** d) 27%
81. If a train runs with the speed of 78 km/hr, it reaches its destination late by 25 minutes. However, if its speed is 91 km/hr, it is late by 10 minutes only. The right time for the train to cover its journey is
 a) 60 minutes b) **80 minutes** c) 75 minutes d) 92 minutes
82. The efficiencies of A, B and C are in the ratio 7 : 6 : 9. Working together, they can complete a piece of work in 135 days. In how many days will, C alone be able to complete 65% of that work?
 a) 202 35 days b) **214 12 days** c) 197 12 days d) 211 days
83. The length of shadow of a vertical pole on the ground is 36 m. If the angle of elevation of the sun at that time is θ , such that $\sin\theta = \frac{5}{13}$, then what is the height of the pole?
 a) 10 m b) 12 m c) 18 m d) **15 m**
84. If the seven digit number $3x6349y$ is divisible by 88, then what will be the value of $(x+y)$?
 a) 15 b) **13** c) 17 d) 14
85. If $(x-4) + (3x-7)^3 + (x-2)^3 = 3(x-4)(3x-7)(x-2)$ find the value of x.
 a) **2.6** b) 4.2 c) 3.8 d) 6.1
86. $72.5 \times 72.5 \times 72.5 + 27.5 \times 27.5 \times 27.5 - 72.5 \times 27.5 - 27.5 \times 72.5$ is equal to
 a) **10,000** b) 1000 c) 10 d) 100000
87. One side of a rhombus is 6.5 cm and one of its diagonals is 12 cm. What is the area of the rhombus?
 a) 20 b) **30** c) 35 d) 40
88. If the income of A is 27% less than the income of B, then what percentage of B's income is more than that of A?
 a) 36.98% b) **42.85%** c) 61.23% d) 49.27%
89. The price of sugar is increased by 12%. By what percentage should there be a decrease in consumption so that there is no change in expenditure?

- a) 10.7% b) 11.4% c) 13.2% d) 12.6%
90. In ΔABC , $\angle A = 35^\circ$, AB and AC are produced to points D and E respectively. If the bisectors of $\angle CBD$ and $\angle BCE$ Meet at the point O, then $\angle BOC$ is equal to
a) **72.5°** b) 67° c) 69° d) 70°
91. Pipe A and B can fill a tank in 12 hrs and 36 hrs respectively whereas pipe C can empty the fill tank in 72 hrs all three pipes are opened together, but pipe A is closed after 6 hours. After how many hours, the remaining part of the tank will be filled?
a) 28 **b) 30** c) 26 d) 22
92. A shopkeeper sold two articles for Rs. 6979 each. on one he gained 11% and on the other he lost 11%. What is the overall percentage gain or loss?
a) 1.25% gain b) 1.21% gain **c) 1.21% loss** d) 1.25% loss
93. The value of $\sin 245 + \cos 230 - \sec 35 \sin 55^\circ \tan 230 + \tan 260$
a) 1/8 b) $\sqrt{3}/2$ c) 2/9 **d) 0**
94. PA and PB are two tangents from a point P outside the circle with centre O. if A and B are points on the circle such that $\angle APB = 135^\circ$, then $\angle OAB$ is equal to
a) 72.5° b) 81.5° **c) 67.5°** d) 90°
95. Two pipe A and B can fill a tank in 16 hours and 20 hours. Respectively. If they are opened alternatively for 1 hour each, starting with pipe B first, in how many hours will the empty tank be filled?
a) 15 $1/3$ hours b) 16 $2/3$ hours
c) 17 $4/5$ hours d) 19 $6/7$ hours
96. In the annual examination Ankita got 10% less marks than Eakta in Mathematics. Ankita got 81 marks. The marks of Eakta are:
a) **90** b) 87 c) 88 d) 89
97. The ratio of the number of boys and girls in a school is 2 : 3. If 25% of the boys and 30% of the girls are scholarship holders, the percentage of the school students who are not scholarship holders is
a) 72% b) 36% c) 54% d) 60%
98. In an examination, 35% of the candidates failed in Mathematics and 25% in English. If 10% failed in both mathematics and English, then how much percent of

candidates passed in both the subjects?

a) **50%**

b) 55%

c) 57%

d) 60%

99. In a village, each of the 60% of families has a cow; each of the 30% of families has a buffalo and each of the 15% of families has both a cow and a buffalo. In all there are 96 families in the village. How many families do not have a cow or a buffalo?

a) 20

b) 24

c) 26

d) 28

100. The ratio of the number of boys and girls in a college is 3 : 2. If 20% of boys and 25% of girls are adults, the percentage of those students who are not adults is:

a) 58%

b) 67.5%

c) 78%

d) 82.5%


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