## Each question carries two marks :

1. The accepted Chronological order of the four Vedas is :
a) Yajurveda ...........Samaveda ............Rigveda ...........Atharvaveda
b) Rigveda...........Yajurveda...........Samaveda...........Atharvaveda
c) Samaveda .......Yajurveda ........ Atharvaveda ....... Rigveda
d) Atharvaveda ....... Samaveda ...... Rigveda ....... Yajurveda
2. What was the name of the party formed by Motilal Nehru and C.R. Das in 1923 AD ?
a) Independence party
b) Ghadar party
c) Swaraj party
d) Indian national party
3. Whose 'Garden City' concept inspired Edwin L. Lutyen while planning New Delhi's architecture?
a) Ebenezer Howard
b) William Emerson
c) Charles Mant
d) F. L. Wright
4. Article 1 of the Indian Constitution declares India as
a) Union of States
b) Democratic Socialist Republic
c) Parliamentary System of Government
d) Secular Country
5. The preamble of the Indian Constitution reads
a) We, the citizens of India $\qquad$ adopt, enact and give to ourselves this Constitution.
b) We, the people of India $\qquad$ adopt, enact and give to ourselves this Constitution.
c) We, the people of India $\qquad$ adopt, enact and give to our Constituent Assembly this Constitution.
d) We, the citizens of India $\qquad$ adopt, enact and give to ourselves the Constitution.
6. Who is regarded as the architect of the Indian Constitution?
a) Jawaharlal Nehru
b) Dr. B.R. Ambedkar
c) Dr. Rajendra Prasad
d) Mahatma Gandhi
7. Excise duty is a tax levied on the
a) Import of goods
b) Export of goods
c) Production of goods
d) Sale of goods
8. The code used under GST for classification of goods is called
a) NIC
b) HSN
c) GSTN
d) ITC
9. Which year is known as the 'Year of the Great Divide' with regard to population, after which there has been a continuous and rapid growth in India's population?
a) 1911
b) 1921
c) 1941
d) 1951
10. The infrared radiation by the sun is strongly absorbed by
a) Carbon dioxide
b) Water vapours
c) Carbon dioxide and water vapours
d) Ozone
11. The temperature increases rapidly after
a) Ionosphere
b) Exosphere
c) Stratosphere
d) Troposphere
12. Israel has common borders with
a) Lebanon, Syria, Jordan and Egypt
b) Lebanon, Syria, Turkey and Jordan
c) Cyprus, Turkey, Jordan and Egypt
d) Lebanon, Syria, Jordan and Iraq
13. Among the following cities, which one is nearest to the tropic of cancer?
a) Delhi
b) Kolkata
c) Jodhpur
d) Nagpur
14. "The roots of education are bitter, but fruit is sweet". Who said these words?
a) Plato
b) Aristotle
c) Abraham Lincoln
d) Albert Einstein
15. The oldest printed book is
a) Old King Cole
b) The Mahabharata
c) The Bible
d) Hiraka Diamond Sutra
16. Most of the air pollution that we experience is located in the
a) Mesosphere
b) Thermosphere
c) Stratosphere
d) Troposphere
17. Atransformer is used to
a) increase $D C$ voltage
b) increase or decrease AC völtage
c) decrease DC voltage
d) convert DC into AC
18. TV remote control works on the principle of $\qquad$
a) Bluetooth technology
b) Infrared waves
c) Ultrasonic waves
d) Laser technology
19. What is the chemical name of the deadly poison 'cyanide'?
a) Sulfuric acid
b) Nitric acid
c) Hydrochloric acid
d) Prussic acid
20. During photosynthesis, green plants use energy from sunlight to synthesise $\qquad$ from carbon dioxide and water.
a) Sucrose
b) Fructose
c) Galactose
d) Glucose
21. Which one of the following acids found in Apple ?
a) Malic acid
b) Formic acid
c) Nitric acid
d) Sulphuric acid
22. Oxygen in our blood is transported by a protein called
a) Haemoglobin
b) Keratin
c) Collagen
d) Myoglobin
23. Which one of the following glands responsible for the disease called 'Diabetes Insipidus' ?
a) Thyroid gland
b) Pituitary gland
c) Pancreatic gland
d) Adrenal gland
24. When dust gets into the eye, the part that becomes inflamed and pink is the
a) Cornea
b) Choroids
c) Conjunctiva
d) Sclerotic
25. A dark purple compound used as an antiseptic and disinfectant is
a) Potassium nitrate
b) Sodium thiosulphate
c) Potassium permanganate
d) Calcium phosphate

## Each question carries two marks :

26. Arrange the following words in a logical and meaningful order :
i) Writing
ii) Distributing
iii) Publishing
iv) Printing
v) Editing
a) (i),(ii),(iii),(iv),(v)
b) (ii),(iv),(iii),(i),(v)
c) (i),(v),(iv),(iii),(ii)
d) (v),(iv),(iii),(ii),(i)
27. In a code language, VICTORY is written as CIVSYRO. How will TRAITOR be written in that language ?
a) ARTHROT
b) TARHTOR
c) RATJHOT
d) ARTJOTR
28. Select the set in which the numbers are related in the same way as are the numbers of the following set.

$$
(8,12,24)
$$

a) $(12,20,40)$
b) $(9,18,27)$
c) $(6,9,18)$
d) $(6,12,18)$
29. A solid cube of volume $13824 \mathrm{~cm}^{3}$ is cut into 8 cubes of equal volume. The ratio of the surface area of the original cube to the sum of the surface areas of three of the smaller cubes is
a) $2: 1$
b) $4: 3$
c) $2: 3$
d) $8: 3$
30. If $x=a+\frac{1}{a}$ and $y=a-\frac{1}{a}$ then $\sqrt{x^{4}+y^{4}-2 x^{2} y^{2}}$ is equal to
a) 4
b) $16 a^{2}$
c) $8 a^{2}$
d) 8
31. $A B C D$ is a cyclic quadrilateral whose diagonals intersect at $P$. If $\mathrm{AB}=\mathrm{BC}, \angle \mathrm{DBC}=70^{\circ}$ and $\angle \mathrm{BAC}=30^{\circ}$, then the measure of
$\angle \mathrm{PCD}$ is
a) $30^{\circ}$
b) $55^{\circ}$
c) $50^{\circ}$
d) $45^{\circ}$
32. A trader marks his goods at $40 \%$ above the cost price. He sells $70 \%$ of the goods at the marked price and the rest, he sells by allowing a $40 \%$ discount on the marked price. His profit percentage is
a) 23.4
b) 24.4
c) 23.2
d) 24.2
33. If $x^{2}+y^{2}+z^{2}=133, x y+y z+z x=144$, and $x y z=216$, then the value of $x^{3}+y^{3}+z^{3}$ is
a) 942
b) 948
c) 1009
d) 999
34. Atravels 15 km with a speed of $30 \mathrm{~km} / \mathrm{h}$. He travels another 25 km with a speed of $10 \mathrm{~km} / \mathrm{h}$. What is his average speed for the entire journey?
a) $\frac{40}{3} \mathrm{~km} / \mathrm{h}$
b) $\frac{80}{3} \mathrm{~km} / \mathrm{h}$
c) $20 \mathrm{~km} / \mathrm{h}$
d) $12 \mathrm{~km} / \mathrm{h}$
35. If $P: Q=5: 2$, then $(2 P-3 Q):(3 P-5 Q)$ is equal to
a) $5: 6$
b) $2: 7$
c) $4: 5$
d) $3: 4$
36. What is the smallest number which when increased by 5 is divisible by 12,18 and 30 ?
a) 175
b) 115
c) 235
d) 195
37. What is the value of $\frac{\frac{2}{3} \text { of } \frac{9}{4}+\frac{1}{2} \div \frac{5}{4}}{1-\frac{1}{3}+\frac{1}{4} \times\left(1+\frac{1}{3}\right)}$ ?
a) $\frac{7}{10}$
b) $\frac{19}{10}$
c) $\frac{9}{10}$
d) 1
38. A train leaves $P$ at 9 am with speed of $30 \mathrm{~km} / \mathrm{h}$. Another train leaves $Q$ at 11 am with speed of $45 \mathrm{~km} / \mathrm{h}$. The trains are travelling towards each other on parallel tracks. Distance between $P$ and $Q$ is 300 km . When they meet, what is the ratio of the distance covered by them?
a) $8: 5$
b) $13: 5$
c) $13: 12$
d) $11: 9$
39. $\mathrm{A}, \mathrm{B}$ and C working alone can do a piece of work in 15,30 and 75 days respectively. They work together and get Rs. 1615 for completing the work. What is the difference in shares of A and C ?
a) Rs. 520
b) Rs. 720
c) Rs. 420
d) Rs. 760
40. The average age of 9 men is 45 years. If the age of a woman is included, then the average age becomes 44 years. What is the age of the woman?
a) 30 years
b) 35 years
c) 40 years
d) 44 years
41. The simple interest on a certain sum at $5 \%$ p.a. for 3 years and 4 years differ by Rs. 42 . The sum is
a) Rs 210
b) Rs. 280
c) Rs. 750
d) Rs. 840
42. If the surface areas of two spheres are in the ratio $4: 9$, then the ratio of their volume will be
a) $4: 9$
b) $16: 27$
c) $8: 27$
d) $16: 9$
43. If in a certain code 5234 is written as RING and 6109 as FAST, how will 095234 be written?
a) STRNIG
b) NGRIST
c) STRING
d) STRIGN
44. If $\mathrm{TOM}=48$ and $\mathrm{DICK}=27$, then $\mathrm{HARRY}=$ ?
a) 46
b) 50
c) 70
d) 67
45. A is son of $C$ while $C$ and $Q$ are the sisters to one another. $Z$ is the mother of $Q$. If $P$ is the son of $Z$, which one of the following statements is correct?
a) $Q$ is the grandfather of $A$
b) $P$ is the maternal uncle of $A$
c) $P$ is the cousin of $A$
d) C and P are sisters to one another
46. $X$ and $Y$ both are young-ones of $Z$. If $Z$ is the father of $X$ but $Y$ is not the son of $Z$. How $Y$ and $Z$ are related to each other?
a) Daughter and Father
b) Sister and Brother
c) Niece and Uncle
d) Niece and Maternal uncle
47. Pointing at a photo, Dinesh said, 'His father is the only son of
my mother'. The photo belongs to
a) Dinesh
b) Dinesh's brother
c) Dinesh's father
d) Dinesh's son
48. If 8 th of the month falls 3 days after Sunday, what day will be on 17 th of that month?
a) Thursday
b) Tuesday
c) Wednesday
d) Friday
49. A, B, C, D and E distribute some cards among themselves in a manner that A gets one less than $B$; $C$ gets 5 more than $D$; E gets 3 more than B while D gets as many as B . Who gets the least number of cards ?
a) B
b) A
c) D
d) E
50. Vikas is taller than Shyam but shorter than Umesh. Umesh is taller than Rajat but shorter than Ganesh. If Shyam is taller than Rajat, then who is shorter among all ?
a) Ganesh
b) Umesh
c) Rajat
d) Vikas

