GENERAL KNOWLEDGE

JMG-III

Full Marks: 100 Time: 2 hours

Each question carries two marks:

| The accepted Chronological order A) Yajurveda Samaveda Samaveda Samaveda Samaveda Atl A) Atharvaveda Samaveda Samaveda F | RigvedaAtharvaveda amavedaAtharvaveda harvavedaRigveda | | |
|--|--|--|--|
| 2. What was the name of the party form | ned 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 inspire ning 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 Governmen | nt | | |
| d) Secular Country | | | |
| 5. The preamble of the Indian Constitu | tion reads | | |
| a) We, the citizens of India a selves this Constitution. | | | |
| b) We, the people of India adopthis Constitution. | ot, enact and give to ourselves | | |
| [1] | POTO | | |

| c) We, the people of India | adopt, enact and give to our |
|--|----------------------------------|
| Constituent Assembly this Constitution | on. |
| d) We, the citizens of India | adopt, enact and give to our- |
| selves the Constitution. | |
| | |
| 6. Who is regarded as the architect o | f 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 class | ssification of goods is called |
| a) NIC | b) HSN |
| c) GSTN | d) ITC |
| 9. Which year is known as the 'Year o | of the Great Divide' with regard |
| to population, after which there has been 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 vapour | S |
| d) Ozone | |
| 44 774 | |
| 11. The temperature increases rapidl | · |
| 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 | n · | |
| c) Cyprus, Turkey, Jordan and Egypt | | |
| d) Lebanon, Syria, Jordan and Iraq | | |
| A COMPANY OF THE SERVICE | | |
| 13. Among the following cities, which cancer? | h one is nearest to the tropic of | |
| a) Delhi | b) Kolkata | |
| c) Jodhpur | d) Nagpur | |
| c) sodipui | d) Magpui | |
| 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 | |
| | Essya Shri i saw | |
| 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 e | experience is located in the | |
| a) Mesosphere | b) Thermosphere | |
| c) Stratosphere | d) Troposphere | |
| <u>-</u> | | |
| 17. A transformer is used to | | |
| a) increase DC voltage | | |
| b) increase or decrease AC voltage | | |
| c) decrease DC voltage | | |
| d) convert DC into AC | | |
| | | |
| 18. TV remote control works on the | principle of | |
| a) Bluetooth technology | b) Infrared waves | |
| c) Ultrasonic waves | d) Laser technology | |
| [3] | TOTAL | |
| [5] | PTO | |
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| | | |

| a)Sulfuric acid | b) Nitric acid | |
|--|---|--|
| c) Hydrochloric acid | d) Prussic acid | |
| c) Trydroemone acid | d) i idssic deld | |
| 20 During photosynthesis of | reen plants use energy from sunlight to | |
| | on dioxide and water. | |
| a) Sucrose | b) Fructose | |
| c) Galactose | d) Glucose | |
| o) Guidetose | d) Gideose | |
| 21. Which one of the following | ng acids found in Apple? | |
| a) Malic acid | b) Formic acid | |
| c) Nitric acid | d) Sulphuric acid | |
| | | |
| 22. Oxygen in our blood is tra | ansported 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),(ii),(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.

a) (12, 20, 40)

b) (9, 18, 27)

c)(6, 9, 18)

d) (6, 12, 18)

29. A solid cube of volume 13824 cm³ 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 $\sqrt{x^4 + y^4 - 2x^2y^2}$ is equal

- to
- a) 4

b) $16a^2$

c) $8a^2$

d) 8

31. ABCD is a cyclic quadrilateral whose diagonals intersect at P. If AB = BC, $\angle DBC = 70^{\circ}$ and $\angle BAC = 30^{\circ}$, then the measure of

| ∠PCD is | |
|----------------------------|--|
| a) 30° | b) 55° |
| c) 50° | d) 45° |
| | |
| 32. A trader marks his go | oods at 40% above the cost price. He sells |
| 70% of the goods at the n | narked price and the rest, he sells by |
| allowing a 40% discount of | on the marked price. His profit percentage |
| is | |
| a) 23.4 | b) 24.4 |
| c) 23.2 | d) 24.2 |
| | |
| | |

- **33.** If $x^2 + y^2 + z^2 = 133$, xy + yz + zx = 144, and xyz = 216, then the value of $x^3 + y^3 + z^3$ is
- a) 942

b) 948

c) 1009

d) 999

- **34.** A travels 15 km with a speed of 30 km/h. He travels another 25 km with a speed of 10 km/h. What is his average speed for the entire journey?
- a) $\frac{40}{3}$ km/h

b) $\frac{80}{3}$ km/h

c) 20 km/h

d) 12 km/h

35. If P : Q = 5 : 2, then (2P - 3Q) : (3P - 5Q) 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 $\frac{\frac{2}{3}of\frac{9}{4} + \frac{1}{2} \div \frac{5}{4}}{1 \frac{1}{3} + \frac{1}{4} \times \left(1 + \frac{1}{3}\right)}?$
- 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 km/h. Another train leaves Q at 11 am with speed of 45 km/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. A, 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 ratio of their volume will be | two spheres are in the ratio 4:9, then the |
| a) 4:9 | b) 16:27 |

- **43.** If in a certain code 5234 is written as RING and 6109 as FAST, how will 095234 be written?
- a) STRNIG

c) 8:27

b) NGRIST

d) 16:9

c) STRING

d) STRIGN

44. If TOM = 48 and DICK = 27, then 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 8th of the month falls 3 days after on 17th of that month? | r Sunday, what day will be |
| a) Thursday | b) Tuesday |
| c) Wednesday | d) Friday |
| 49. A, B, C, D and E distribute some comanner that A gets one less than B; C more than B while D gets as many as B of cards? | gets 5 more than D; E gets 3 |
| a) B | b) A |
| c) D | d) E |
| 50. Vikas is taller than Shyam but short taller than Rajat but shorter than Ganes Rajat, then who is shorter among all? a) Ganesh c) Rajat | |

E. Sen.