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STD - 10

Name of the student: Div:

Name of the school :

Questions 1 – 7 carry 2 marks each.**(2 x 7 = 14)**

1. Which state was the first to implement the Panchayati Raj System in India?
a) Gujarat b) Kerala c) Tamilnadu d) Rajasthan
2. How many people does the President nominate to the Rajya Sabha?
a) 10 b) 12 c) 8 d) 4
3. Which Ocean does not contain blue whales?
a) Arctic Ocean b) Atlantic Ocean
c) Indian Ocean d) Pacific Ocean
4. What is the name of the first movie shot on the International Space Station?
a) The warrior
b) Gladiator I
c) The Challenge
d) The Beautiful Mind
5. Odd one out.
a) Taj Mahal
b) Humayun's Tomb
c) Qutub Minar
d) Ibatat Khana
6. How many stars are there on the flag of America?
a) 50 b) 40
c) 25 d) 30
7. Which agency is authorized to issue the official maps in India?
a) Map India
b) Survey of India
c) Atlas Agency
d) None of these

Questions 8 – 20 carry 1 mark each.**(1 x 13 = 13)**

8. Who is the author of Divine Comedy?
a) Erasmus b) Dante
c) Leo Tolstoy d) Plato
9. Which day is observed as World Population Day?
a) July 4 b) June 5
c) July 11 d) December 3

10. Which organization got permanent membership in the 2023 - G20?
- a) European Union
 - b) Scandinavian Countries Union
 - c) Continental Union
 - d) African Union
11. Who has been chosen as the recipient of 41st Lokmanya Tilak award?
- a) Dr. S.Somanath
 - b) Ram Nath Kovind
 - c) Narendra Modi
 - d) Dr. M.S Swaminathan
12. The first Indian to reach the finals of the chess world cup after Viswanathan Anand.
- a) Vignesh N.R
 - b) R. Pragnananda
 - c) Koneru Humpy
 - d) Magnus Carlsen
13. Which of the following is used to fill the data in the table cells?
- a) <TD>
 - b) <TR>
 - c) <A>
 - d) <TB>
14. What is DBMS?
- a) Database Measuring system
 - b) Database Management system
 - c) Database Maintenance system
 - d) Database Monitoring system
15. How many neighbouring computers are there for each node of a ring topology?
- a) Five
 - b) Three
 - c) Four
 - d) Two
16. What was the initial code of name MS Access?
- a) Cirrus
 - b) Decan
 - c) Bostan
 - d) Omega
17. Which of these is the simplest form of query?
- a) Summary Query
 - b) Parameter Query
 - c) Sort Query
 - d) Select Query
18. The world wide web was developed in the year
- a) 1999
 - b) 1989
 - c) 1976
 - d) 1958

19. Who created the world's first computer Algorithm?

- a) Brendan Eich
- b) Elon Musk
- c) Ada Lovelace
- d) Larry Page

20. RAD stand for;

- a) Rapid Application Development
- b) Rapid Accessible Department
- c) Read Access Dedicate
- d) Reduced Application Department

Questions 21 – 27 carry 2 marks each.

(2 x 7 = 14)

21. The image formed by a concave mirror is observed to be virtual, erect and larger than the object. Where should be the position of the object?

- a) Between the principal focus and the centre of curvature
- b) At the centre of curvature
- c) Beyond the centre of curvature
- d) Between the pole of the mirror and its principal focus.

22. A dental doctor uses a mirror of focal length 5 cm. To see the teeth clearly what should be the distance between the teeth and the mirror?

- a) 10 cm
- b) 5 cm
- c) between 5 cm and 10 cm
- d) less than 5 cm

23. An object of height 3 cm is placed in front of a convex lens of focal length 20 cm at a distance of 30 cm. What is the distance to the image formed?

- a) no image is formed
- b) 20 cm
- c) 60 cm
- d) 30 cm

24. The least distance of distinct vision for a young adult with normal vision is about

- a) 25 m
- b) 25 cm
- c) 0.25 m
- d) 0.25 cm

25. A cylindrical conductor of uniform cross section has a resistance of 180 Ω . It is cut in to three equal parts. If the three parts are connected in parallel, the effective resistance of the combination is

- (a) 20 Ω
- (b) 60 Ω
- (c) 12 Ω
- (d) 18 Ω

26. $\text{Fe}_2\text{O}_3 + 2\text{Al} \rightarrow \text{Al}_2\text{O}_3 + 2\text{Fe}$ The above reaction is an example of a

- a) combination reaction
- b) double displacement reaction
- c) decomposition reaction
- d) displacement reaction

27. What happens when dilute hydrochloric acid is added to iron fillings?

- a) Hydrogen gas and iron chloride are produced.
- b) Chlorine gas and iron hydroxide are produced.
- c) No reaction takes place.
- d) Iron salt and water are produced.

Questions 28 – 30 carry 1 mark each.

(1 x 3 = 3)

28. Which one of the following types of medicines is used for treating indigestion?
a) Antibiotic
b) Analgesic
c) Antacid
d) Antiseptic
29. A solution turns red litmus blue, its pH is likely to be
a) 1
b) 3
c) 11
d) 7
30. An element reacts with oxygen to give a compound with a high melting point. This compound is also soluble in water. The element is likely to be
a) silicon
b) carbon
c) chlorine
d) calcium

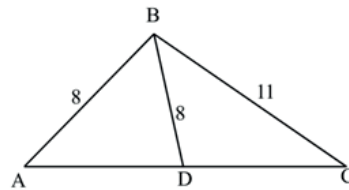
Questions 31 – 46 carry 2 marks each.

(2 x 16 = 32)

31. $\sqrt{8+2\sqrt{8+2\sqrt{8+2\sqrt{8+2\sqrt{8+\dots}}}}}$ =
a) 10 b) 8 c) 6 d) 4
32. If α and β are the roots of the equation $ax^2+bx+c=0$ then, $\alpha\beta = \dots\dots\dots$
a) ab b) $a+c$ c) $-b/a$ d) c/a
33. The value of $\frac{0.9 \times 0.9 \times 0.9 + 0.1 \times 0.1 \times 0.1}{0.9 \times 0.9 - 0.9 \times 0.1 + 0.1 \times 0.1} = \dots\dots\dots$
a) 0 b) 0.8 c) 1 d) 2
34. If $\cos x = \sin(x-10)$ then $x = \dots\dots\dots$
a) 30 b) 40 c) 50 d) 45
35. m, n are the zeros of the polynomial $P(x) = x^2 + ax + b$. If $m^2 - n^2 = 16$ and m, n are natural numbers then, what is 'a'?
a) 8 b) 4 c) 9 d) 13
36. 10 times of 10th term of an arithmetic sequence is equal to 20 times of 20th term, find its 30th term.
a) 0 b) 30 c) 10 d) 300
37. The average of 'a' and 'b' is 'c'. The average of 'c' and 'd' is 'b'. If $d-a=60$ then $b-c = \dots\dots\dots$
a) 15 b) 20
c) 25 d) 30
38. What is the next term of the arithmetic sequence: $\sqrt{8}, \sqrt{18}, \sqrt{32}, \dots\dots$
a) $\sqrt{50}$ b) $\sqrt{70}$ c) $\sqrt{48}$ d) $\sqrt{62}$

46. In triangle ABC, AB=8cm, BC=14cm and D is a point on AC such that BD 8cm. Then if AD/DC= a/b where a and b relatively prime numbers then a+b=.....

- a) 199 b) 197 c) 196 d) 201



Questions 47 – 50 carry 1 mark each.

(1 x 4 = 4)

47. Which Indian State Launched a Women Friendly tourism app recently to encourage Women to friendly tourism?

- a) Karnataka b) Kerala
c) Tamil Nadu d) Odisha

48. The new name of childline Functioning under the union ministry of Women and Child development is

- a) Mission Indradhanush b) Mission vatsalya
c) Poshan abhiyan d) Mission Shakti

49. According to the recent report, which eity has been ranked as the world's wealthiest city in 2023?

- a) Delhi b) London
c) Newyork d) Beiging

50. Who has been described by the United Nations Environmental Programme as the father of Economic Ecology ?

- a) M.S. Swaminathan b) Madhav Gadgil
c) Varghese kurian d) Hiralal chaudhuri

Questions 51 – 60 carry 2 marks each.

(2 x 10 = 20)

Choose The Correct Answer For Questions 53 And 54 :-

51. The teacher, along with the students, going on a field trip tomorrow.

- a) is b) am
c) are d) was

52. The weather was so hot that I wished I a swimsuit.

- a) have brought b) have bring
c) had brought d) was bringing

53. Convert into passive voice:-

The chef is preparing the delicious meal.

- a) The delicious meal is prepared by the chef
b) The delicious meal is being prepared by the chef
c) The delicious meal has been prepared by the chef
d) The delicious meal was prepared by the chef

54. **Change into direct speech:-**
She said that they would have completed the project by the following month.

- a) She said, "We would have completed the project by next month."
- b) She said, "We would complete the project by next month".
- c) She said, "We will have complete the project by next month".
- d) She said, "We will have completed the project by next month".

55. **The idiom "barking up the wrong tree" means**

- a) to chase after dogs in the forest
- b) to approach a situation in the wrong way
- c) to climb a tree to escape danger
- d) to be an unskilled tree climber

56. **Which of the following words is a synonym for 'benevolent'?**

- a) malevolent
- b) hostile
- c) kind-hearted
- d) malignant

57. **Add suitable question tag:-**

Nobody knows the answer to this question, ?

- a) don't they?
- b) don't you?
- c) do you?
- d) do they?

Read the following poem and answer the questions given below :-

*In the forest where shadows play,
Beneath the moon's enchanting ray
Whispers of secrets, the trees confide,
Nature's beauty, none can hide.*

Poem by A I

58. **What do the trees do?**

- a) They sing loudly
- b) They confide secrets
- c) They hide in the shadows
- d) They dance in the moonlight

59. **What is the role of the moon in the poem?**

- a) It hides beneath the clouds
- b) It creates shadows in the forest
- c) It reveals the secrets of the trees
- d) It illuminates the forest with light

60. **What is the mood of the poem?**

- a) joy
- b) sadness
- c) mystery
- d) anger