

PREPARATORY REVISION TEST - 2021

FRS

9 - Std

MATHS

Time : 1.30 hrs.

Marks : 50

PART - I

8 X 1 = 8

I Answer all the questions. Choose the correct answer.

- If $A = \{8, 9, 10, 11, 12\}$, $B = \{4, 5, 7\}$ which of the following is true?
 a) $4 \in A$ b) $11 \in B$ c) $8 \in A$ d) $12 \in B$
- The set $P = \{x / x \in \mathbb{Z}, -1 < x < 1\}$ is a
 a) singleton set b) power set c) null set d) subset
- Which of the following is correct?
 a) $\phi \in \{a, b\}$ b) $\phi \in \{a, b\}$ c) $\{a\} \in \{a, b\}$ d) $\{a\} \subseteq \{a, b\}$
- $0.\overline{34} + 0.\overline{34}$
 a) $0.\overline{687}$ b) $0.\overline{68}$ c) $0.\overline{68}$ d) $0.\overline{687}$
- If $\frac{1}{7} = 0.\overline{142857}$ then the value of $\frac{5}{7}$ is
 a) $0.\overline{142857}$ b) $0.\overline{714285}$ c) $0.\overline{571428}$ d) $0.\overline{714285}$
- The root of the polynomial equation $2x + 3 = 0$ is
 a) $\frac{1}{3}$ b) $-\frac{1}{3}$ c) $-\frac{3}{2}$ d) $-\frac{2}{3}$
- Degree of the polynomial $(y^3 - 2)(y^3 + 1)$ is
 a) 9 b) 2 c) 3 d) 6
- If $p(a) = 0$ then $(x - a)$ is a of $p(x)$.
 a) divisor b) quotient c) remainder d) factor

PART - II

Answer any seven questions. Question No. 19 is compulsory. 7 X 2 = 14

- List the set of letters of the word PARALLELOGRAM in Roster form.
- If $A = \{a \{a, b\}\}$ write all the subsets of A.
- If $n[P(A)] = 256$, find $n(A)$.

12. Convert the decimal number $0.\overline{45}$ in the form of $\frac{p}{q}$ ($p, q \in \mathbb{Z}$ and $q \neq 0$).
13. Find any two irrational numbers between $0.3010011000111 \dots$ and $0.3020020002 \dots$.
14. Write the co-efficient of x^2 and x for the polynomial $4 + \frac{2}{5}x^2 - 3x$.
15. Find the value of $(243)^{\frac{2}{5}}$.
16. The area of a rectangle is $x^2 + 7x + 12$. If its breadth is $(x + 3)$, then find its length.
17. Find the GCD for $9a^2b^2c^3$, $15a^3b^2c^4$.
18. Find the roots for the polynomial equation $-7 - 4x = 0$.
19. Factorise : $9x^2 + 12xy + 4y^2$.

PART - III

Answer any four questions. Question No. 26 is compulsory.

$$4 \times 5 = 20$$

20. Represent $\sqrt{9.3}$ on a number line.
21. Represent $4.\overline{73}$ upto 4 decimal places on the number line.
22. The length of a rectangle is $(3x + 2)$ units and its breadth is $(3x - 2)$ units. Find its area in terms of x . What will be the area if $x = 20$ units.
23. By remainder theorem, find the remainder when $p(x)$ is divided by $g(x)$ where $p(x) = x^3 - 2x^2 - 4x - 1$, $g(x) = (x + 1)$.
24. If $\left(y - \frac{1}{y}\right)^3 = 27$, then the value of $y^3 - \frac{1}{y^3}$.
25. Find the value of m , if $(x - 2)$ is a factor of the polynomial $2x^3 - 6x^2 + mx + 4$.
26. Find the quotient and remainder when $x^3 + x^2 - 7x - 3$ is divided by $x - 3$.

PART - IV

Answer the following.

$$1 \times 8 = 8$$

27. Construct the $\triangle LMN$ such that $LM = 7.5\text{cm}$, $MN = 5\text{cm}$ and $LN = 8\text{cm}$. Locate its centroid. (OR)

Draw $\triangle PQR$ with sides $PQ = 7\text{cm}$, $QR = 8\text{cm}$ and $PR = 5\text{cm}$ and construct its orthocentre.

SALEM

PREPARATORY REVISION TEST - 2021

SCIENCE

FRS

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12 X 1 = 12

I Choose the correct answer of the following.

1. 1 metric ton is equal to
 a) 100 quintals b) 1/100 quintals c) 10 quintals d) 1/10 quintals
2. SI unit of length is
 a) Kilogram b) Metre c) Second d) Kelvin
3. Radius of a thin wire is measured by
 a) Vernier Caliper b) Screw Gange
 c) Beam Balance d) Spring Balance
4. Velocity is a quantity
 a) Scalar b) Fundamental quantity
 c) Vector d) Scalar or Vector
5. The motion of a city bus in a heavy traffic road is an example for motion.
 a) uniform motion b) non - uniform motion
 c) linear motion d) circular motion
6. Area under velocity - time graph shows
 a) distance b) displacement c) speed d) velocity
7. Among the following is a mixture.
 a) common salt b) carbon di oxide c) juice d) pure silver
8. When we mix a drop of ink in water we get a
 a) Heterogeneous mixture b) Compound
 c) Homogeneous mixture d) Suspension
9. The Chemical formula of cane sugar is
 a) $C_6H_{12}O_6$ b) $C_{12}H_{22}O_{11}$ c) C_2H_5OH d) CH_4
10. Find the group having only marine members
 a) Mollusca b) Coelenterata c) Echinodermata d) Porifera

SALAM

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SOCIAL SCIENCE

Time : 1.30 hrs.

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6 X 1 = 6

I Choose the correct answer.

1. Sir Robert Bruce Foote, a geologist from England first discovered the tools at Pallavaram near Chennai.
a) Microlithic b) Paleolithic c) Mesolithic d) Neolithic
2. The Harappans did not have the knowledge of
a) Gold and elephant b) Horse and Iron
c) Sheep and Silver d) Ox and Platinum
3. Magma is found in the
a) Crust b) Mantle
c) Core d) None of the above
4. is seen in the lower course of the river.
a) Rapids b) Alluvial Fan
c) Delta d) Gorges
5. Kudavolai system was followed by
a) Cheras b) Pandyas
c) Cholas d) Kalabharas
6. is the state with highest installed solar capacity in India.
a) Tamil Nadu b) West Bengal
c) Kerala d) Andhara Pradesh

II Fill in the blanks.

5 X 1 = 5

7. is known as the Middle Stone Age, as it is placed between the Paleolithic and Neolithic.
8. The rigid outer layer of the earth is known as
9. The disintegration or decomposition of rock is generally called as
10. was the first Prime Minister of independent India.
11. Ground water is an example of resource.

5 X 1 = 5

III Match the following.

- | | | |
|--------------------|---|-----------------------|
| 12. Hand axe tools | - | Sima |
| 13. Red sand dunes | - | Mohenjo - Daro |
| 14. Mantle | - | Achulian |
| 15. The Great Bath | - | Lower course of river |
| 16. Distributaries | - | Teris |

PART - II

5 X 2 = 10

IV Answer any five of the following in short.

17. Brief, how the age of speculation made human become conscious and knowledgeable.
18. List out the features of Megalithic Burial types.
19. Mention the layers of the interior of the earth.
20. What is Tsunami?
21. What do you mean by biological weathering?
22. Give Abraham Lincoln's definition for democracy.
23. What are the indicators of development?

V Differentiate the following. (any two)

24. Core and the Crust.
25. Primary waves and Secondary waves.
26. Delta and Estuary.

PART - III**VI Answer the following in detail.**

3 X 5 = 15

27. The history of humans is closely related to the earth, Elucidate. (OR)
Write about the hidden treasure of Indus Valley Civilisation.
28. Explain the effects of Volcanoes. (OR)
Write a note on weathering, Classify and Explain. (OR)
29. What are the challenges to Indian democracy? Explain. (OR)
Describe the policies for sustainable development.

VII On the given outline map of the world, mark the following.

5 X 1 = 5

- | | |
|------------------------|-------------------------|
| 1) The Himalayan Range | 2) Pacific Ring of fire |
| 3) Any one Hot desert | 4) The Alps Range |
| 5) Any one Delta | |