Sper PREPARATORY REVISION TEST - 2021 PRS

9 - Std

MATHS

Time: 1.30 hrs.

Marks: 50

PART - I

Answer all the questions. Choose the correct answer.

8 X 1 = 8

If $A = \{8, 9, 10, 11, 12\}$, $B = \{4, 5, 7\}$ which of the following is true?

b) | | e B

c) 8 ∈ A

5716 set, P = {x / x ∈ z, -1 < x < 1} is a

(37.3.a) singleton set, b) power set c) null set d) subset (37.3.a) which by the following is correct?

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(37.3.a) $\{a,b\}$ (3.4.a) $\{a,b\}$ (4.5.b) $\{a,b\}$ (5.4.a) $\{a,b\}$ (6.4.a) $\{a,b\}$ (7.4.a) $\{a,b\}$ (8.4.b) $\{a,b\}$ (9.4.a) $\{a,b\}$ (1.4.b) $\{a,b\}$ (1.4.c) $\{a,b\}$ (1.4.c) $\{a,b\}$ (1.4.c) $\{a,b\}$ (1.4.c) $\{a,b\}$ (2.4.c) $\{a,b\}$ (3.4.c) $\{a,b\}$ (4.4.c) $\{a,b\}$ (5.4.c) $\{a,b\}$ (6.4.c) $\{a,b\}$ (7.4.c) $\{a,b\}$ (8.4.c) $\{a,b\}$ (9.4.c) $\{a,b\}$ (1.4.c) $\{a,b\}$ (1.4.c) $\{a,b\}$ (1.4.c) $\{a,b\}$ (1.4.c) $\{a,b\}$ (1.4.c) $\{a,b\}$ (1.4.c) $\{a,b\}$ (2.4.c) $\{a,b\}$ (3.4.c) $\{a,b\}$ (4.4.c) $\{a,b\}$ (5.4.c) $\{a,b\}$ (6.4.c) $\{a,b\}$ (7.4.c) $\{a,b\}$ (8.4.c) $\{a,b\}$ (9.4.c) $\{a,b\}$ (9.4.c) $\{a,b\}$ (1.4.c) $\{$

d) $\{a\} \subseteq \{a,b\}$

a) 0.687

c) 0.68

d) 0.687

If $\frac{1}{7} = 0.1\overline{42857}$ then the value of $\frac{5}{7}$ is

a) 0.142857 b) 0.714285

c) 0.571428

d) 0.714285

6. The root of the polynomial equation 2x + 3 = 0 is

a) $\frac{1}{3}$

b) $-\frac{1}{2}$

c) $-\frac{3}{2}$

d) $-\frac{2}{3}$

Degree of the polynomial $(y^3 - 2)(y^3 + 1)$ is 7.

a) 9.

b) 2

c) 3

d) 6

If p(a) = 0 then (x - a) is a of p(x). 8.

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. 9

If $A = \{a \{a,b\}\}\$ write all the subsets of A. 10

If n[P(A)] = 256, find n(A). 11.

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- Convert the decimal number $0.4\overline{5}$ in the form of $\frac{p}{q}$ (p,q \in z and $q \neq 0$). 12.
- 13. Find any two irrational numbers between 0.3010011000111 and 0.3020020002
- Write the co-efficient of x^2 and x for the polynomial $4 + \frac{2}{5}x^2 3x$. 14.
- Find the value of $(243)^{2/5}$. 15.
- The area of a rectangle is $x^2 + 7x + 12$. If its breadth is (x + 3), then find its length 16.
- 17.
- Find the roots for the polynomial equation 7 4x = 0.

 Factorise: $9x^2 + 12xy + 4y^2$.

 Solution is $9x^2 + 12xy + 4y^2$.

 Solution in $9x^2 + 12xy + 4y^2$.

 Solution is $9x^2 + 12xy + 4y^2$. P.G. Asst. in PHYSICS Akash Vidya Bhavan Mai. Hr. Sec. School. kash vidya shawan mai. m. 363.7301. 18.
- 19.

PART - III

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

- Represent $\sqrt{9.3}$ on a number line.
- Represent 4.73 upto 4 decimal places on the number line. 21.
- 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.
- 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).
- If $\left(y \frac{1}{y}\right)^3 = 27$, then the value of $y^3 \frac{1}{y^3}$.
- Find the value of m, if (x 2) is a factor of the polynomial $2x^3 6x^2 + mx + 4$. 25.
- Find the quotient and remainder when $x^3 + x^2 7x 3$ is divided by x 326.

PART - IV

Answer the following.

 $1 \times 8 = 8$

Construct the ΔLMN such that LM = 7.5Cm, MN = 5Cm and LN = 8Cm. Locate 27. its centroid. (OR)

Draw ΔPQR with sides PQ = 7Cm, QR = 8Cm and PR = 5Cm and construct its orthocentre.

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SALEM

PREPARATORY REVISION TEST - 2021 FRS



9 - Std

SCIENCE

Time: 1.30 hrs.

Marks: 50

12 X 1 = 12

	t the fellowing	12 ^ 1
I Choose the correct answer		48
1. 1 metric ton is equal to	white and a second of	1/10 quintals
a) 100 quintals b) 1/100 c	quintals c) 10 quintals	A Section of
2/2 SI unit of length is	i	Kelvin
A PKilogram b) Metre	Canad	Velviii
(0) (3) Killogram b) Metre	ured by	
a) Vernier Calipter	b) Screw Gange	access to the second
Beam Balance	d) Spring Balance	
a) Vernier Calipler Beem Balance Velocity is a	uantity	e was
a) Scalar	b) Fundamental quantity	· · · · · · · · · · · · · · · · · · ·
c) Vector	d) Scalar or Vector	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
5. The motion of a city bus in a	heavy traffic road is an example fo	
motion.		
a) uniform motion	b) non - uniform motion	
c) linear motion	d) circular motion	
6. Area under velocity - time graph	n shows	
a) distance b) displacemen	nt c) speed d) ve	elocity
7. Among the following	is a mixture.	
a) common salt b) carbo	on di oxide c) juice d) pu	ıre silver
3. When we mix a drop of ink in wa		
a) Heterogeneous mixture	b) Compound	
c) Homogeneous mixture	d) Suspension	
The Chemical formula of cane su		
a) C ₆ H ₁₂ O ₆ b) C ₁₂ H ₂		_
). Find the group having only marine		14
a) Mollusca b) Coelenterata		
	a) Po	
	FRS-9 SCIENCE (E	M) PAGE - I
		· · · · · · · · · · · · · · · · · · ·

	Earth worm is an example for								
	a) Acoelomates b) Pseudo coelomates								
	c) Coelomates d) none of the above								
12	The animal without skull is								
	a) Acrania b) Acephalia c) Apteria d) Acoelomate								
1	Answer very briefly any four of the following questions. 4 X 2 = 8								
1.	What is the full form of SI system?								
2.	Distinguish distance and displacement.								
3.	What is the full form of SI system? Distinguish distance and displacement. Name the components in each of the following mixtures: i) Ice Cream ii) Air What is called an atom? Define taxonomy.								
	i) Ice Cream ii) Air								
4.	What is called an atom?								
5.	Define taxonomy.								
6.	Distinguish distance and displacement. Name the components in each of the following mixtures: i) Ice Cream ii) Air What is called an atom? Define taxonomy. What is nematocyst? Answer any four of the following briefly. Asswer any four of the following briefly. 4 X 4 = 16								
m	i) Ice Cream ii) Air What is called an atom? Define taxonomy. What is nematocyst? Answer any four of the following briefly. At 4 = 16								
1.	Write the need of a standard unit.								
2.	How will you measure the least count of Vernier Caliper?								
3.	Compare speed and velocity.								
4.	Give the four types of motion.								
5.	Oxygen is very essential for us to live. It forms 21% of air by volume. Is it an								
	element or compound?								
6.	Differentiate between flat worms and round worms.								
IV	Answer any one questions from each section of the following. $2 \times 7 = 14$								
1. p	Explain a method to find the thickness of a hollow tea cup. (OR)								
1	Explain different types of motion.								
2.	a) Write the differences between elements and compounds and give an example								
	for each.								
	b) Give any two differences between mixture and compound. (OR)								
	Give an account of phylum arthropoda.								

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9 - Std

SOCIAL SCIENCE

Time: 1.30 hrs.

Marks: 50

	Choose the correct	answer.		71.		XIT	
	Sir Robert Bruce Foo	te, a geologist	from Englar	nd first disc	covered the		
	tools at Pallavaram n	•				4	Y.
H =	A 18 18 18 18 18 18 18 18 18 18 18 18 18	o) Paleolithic	c) Mesoli	thic	d) Neolithic	e to	, y
2.	The Harappans did n	and the second					
	a) Gold and elephant		b) Horse	and Iron		W. 1.47	9.5
	c) Sheep and Silver		d) Ox an	d Platinum	D 100 100 11		
3. 🚧	Magma is found in th	e				A)	15
1	a) Ĉrust		b) Mantle		na cod 9		
130	c) Core		d) None	of the abov	re .		Sec.
4.	is seen	in the lower co	urse of the r	iver.			
la la	a) Rapids		b) Alluvia	! Fan			
	c) Delta		d) Gorge	S			
5.	Kudavolai system was followed by						
	a) Cheras		b) Pandy	/as			
	c) Cholas		d) Kalab		. y .3 - 542		*
6.	is the sta	te with highest			in India.		L
	a) Tamil Nadu		b) West			10	,
	c) Kerala	Þ.	d) Andha	ara Prades			10
II	Fill in the blanks.	production.				5 X 1 =	5
7.	is kno	wn as the Mido	lle Stone Ag	e, as it is p	laced betweer	the .	
	Paleolithic and Neoli	thic.	i i a	1 2			
8.	The rigid outer layer	of the earth is	known as				
9.	The disintegration o						
10.	was th						
11.	Ground water is an	example of		resource.			
		F	RS-9 SO	CIAL SC	ENCE (EM)	PAGE .	- 1

III Match the following.

12. Hand axe toolds - 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.

 $3 \times 5 = 15$

- 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.

5X1=5

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

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