MATHSARC Education

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SCHOOL + FOUNDATION

NAME:

TEST # VIII - 02, July 2023

Total. Time: 1:30 Hr

TEST SERIES – CLASS 8TH

M.M: 150

INSTRUCTIONS

- 1. The paper consists of two sections A & B. Section A Mathematics & Section B Science.
- 2. The objective paper is designed by considering School Exam, NTSE & IIT Foundation.
- 3. The marking system is given just before the start of the Part in each section.
- 4. Blank papers, clipboards, log tables, slide rules, calculators, cameras, cellular phones, pagers and electronic gadgets are NOT allowed during exam.
- 5. The maximum mark allotted to the paper is 150.
- 6. Total time allotted for the exam is 1:30 Hours.
- 7. SECTION A (MATHEMATICS) Questions No's: 1 15.

SECTION – B (SCIENCE) Questions No's 16 – 45.

Mathsarc Test Series

Register Today, No admission Required for Test Series. Enquire: 8007267089

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Invigilator Sign

Test is just a crosscheck of our learning during the month! So, be honest with thyself!





CLASS - 8th

SECTION – A (MATHEMATICS)

SI	SINGLE OPTION CORRECT (+ 4, - 1, 0)					
1.	Which of the following numbers is a rational number?					
	(A) √2	(B) П	(C) 3.14	(D) - 5/7		
2.	What is the reciprocal of	f the rational number -2/9	?			
	(A) - 9/2	(B) - 9/18	(C) - 9/4	(D) 9/2		
3.	Evaluate: $\left(\frac{1}{2}\right)^3$					
	(A) 1/8	(B) 2	(C) 1/6	(D) 3/2		
4.	. What is the value of $(\sqrt{3} + \sqrt{5})^2$?					
	(A) 8 + $2\sqrt{15}$	(B) 8 + $4\sqrt{15}$	(C) 8 + $2\sqrt{3}$ + $2\sqrt{5}$	(D) 8 + $2\sqrt{3}$ + $2\sqrt{5}$ + 5		
5.	Simplify: $\left(\frac{2}{3}\right) + \left(\frac{1}{4}\right) - \left(\frac{5}{6}\right)$	$) \times \left(\frac{3}{5}\right)$				
	(A) - 17/60	(B) - 7/12	(C) 5/12	(D) - 5/12		
6.	Evaluate: $\left(\frac{3}{4}\right) - \left(\frac{1}{3}\right) \times \left(\frac{2}{5}\right)$	$) \div \left(\frac{2}{3}\right) + \left(\frac{1}{2}\right)$				
	(A) 1/60	(B) - 5/20	(C) 21/20	(D) None of these		
7.	Evaluate: $\left(\left(\frac{1}{2}\right) \times \left(\frac{1}{4}\right)\right) +$	$\left(\left(\frac{1}{2}\right) \times 6\right)$				
	(A) 25/8	(B) 25/4	(C) 26/14	(D) 19/8		
RC	OUGH SPACE	· / ·	· / ·	· · ·		

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Mat	hsarc Education	MATHSARC EDUCATION A learning place to fulfill your dream	ь ов лисселл!	CLASS - 8 th	FOUNDATION TEST SERIES	
<u> </u>	$\frac{1}{(3)} + (5) + (7) + (13) + (4)$					
0.	(A) 47	$f_{2}(\left(\frac{1}{2}\right) \wedge \left(\frac{1}{6}\right)) + \left(\left(\frac{1}{2}\right) + \left(\left(\frac{1}{2}\right)\right) + \left(\left(\frac{1}{2}\right)$	(B) 12/47	(3)) (C) 45/47	(D) 43/47	
9.	If $x =$	$-\frac{8}{3}, y = \frac{5}{6}, z = -\frac{5}{6}$	$-\frac{13}{12}$ then x × (y +	z) =		
	(A) 2		(B) 2/3	(C) 3/2	(D) 3	
10.	10. Simplify: $-\frac{5}{4} \times \left(\left(\frac{8}{r} \right) + \left(\frac{16}{r} \right) \right)$					
	(A) 4		(B) - 4	(C) 6	(D) - 6	
11.	I. If 24 trousers of equal size can be prepared in 54 meters of cloth, what length of cloth is required for each trouser?					
	(A) 9/-	4 m	(B) 9/3 m	(C) 7/4 m	(D) 9/7 m	
12.	2. Divide the sum of $65/12$ and $12/7$ by their difference.					
	(A) 45	/10	(B) 599/311	(C) 563/123	(D) 1	
13.	3. Divide the sum of $-13/5$ and $12/7$ by the product of $-31/7$ and $-1/2$.					
	(A) 31	/35	(B) -2/5	(C) -11/5	(D) 2/3	
14.	4. The cost of $2\frac{1}{3}$ meters of cloth is Rs 75 ¹ / ₄ . Find the cost of cloth per meter.					
	(A) 32		(B) 32.25	(C) 35.50	(D) 36	
15.	15. If $x = \frac{1}{4}$, $y = \frac{3}{2}$ then $(x + y) \div (x - y) =$					
	(A)7/	5	(B) - 7/5	(C) 5/7	(D) - 5/7	
ROUGH SPACE						

 $\longleftrightarrow \sim \blacksquare : \textcircled{\odot} \textcircled{\odot}$ Best of Luck! $\textcircled{\odot} \textcircled{\odot} : \blacksquare \sim \mapsto$



SECTION – B (SCIENCE)

PART - I (PHYSICS)

SINGLE OPTION CORRECT (+ 3, - 1, 0)

16. Which of the following is not a correct statement?

- (A) A force can change the state of rest or motion of a body.
- (B) A force can change the direction of a body
- (C) A force can change the chemical properties of a body
- (D) A force can change the dimensions of the body.

17. If no external force acts on a body, it will

- (A) move with more speed
- (B) change its shape
- (C) break into pieces
- (D) either remain in its state of rest or uniform motion

18	8 is a measure of the gravitational force acting on an object.				
(A) mass	(B) weight	(C) pressure	(D) none of these		

19. If two equal forces act on the body in opposite direction, then the resultant force on the body will be(A) More(B) Zero(C) Less(D) None of these

ROUGH SPACE

 $\longleftrightarrow \sim \blacksquare : \bigcirc \bigcirc \bigcirc \text{Best of Luck!} \bigcirc \bigcirc : \blacksquare \sim \mapsto$

the

20. What principal is used in a newton spring balance?

(A) The mass of an object depends on its density.

(B) The mass of an object depends on the gravity pulling it.

(C) The weight of an object is directly proportional to its mass

(D) The extension of the spring is directly proportional to the weight pulling it, and weight depends upon mass.

21.	The state of motion of a b	ody is described by its	and direction of motion.		
	(A) force	(B) pressure	(C) speed	(D) none of these	
22. In CGS system, the unit of force is					
	(A) Newton	(B) Pascal	(C) dyne	(D) meter	
23. A coin flicked across a table will stop, because					
	(A) it is heavy		(B) no force is acting on it		
	(C) earth attracts the coin	L	(D) table exerts a frictional force.		
24.	24. The force of freely falling body is directly proportional to				
	(A) mass of body		(B) acceleration of body		
	(C) velocity of body		(D) both (A) and (B) option	ons	
25.	25. A block of mass 4 kg and dimensions 10 cm × 20 cm × 30 cm rest on the floor. If g = 10 ms ⁻² , the maximum pressure the block can exert on the floor is			. If g = 10 ms ⁻² , then	

(A) 2000 Nm^{-2} (B) 1000 Nm^{-2} (C) 4000 Nm^{-2} (D) 1333 Nm^{-2}

ROUGH SPACE

PART - II (CHEMISTRY) SINGLE OPTION CORRECT (+ 3, - 1, 0) 26. Polyester is a synthetic fiber made from: (A) Natural plant fibers (B) Natural animal fibers (C) Petroleum-based chemicals (D) Wood pulp 27. Which of the following is a commonly used plastic polymer? (A) Cellulose (B) Rubber (C) Polyethylene (D) Silk 28. What is the process called by which small monomer units are chemically bonded together to form a large polymer? (A) Polymerization (B) Crystallization (C) Sublimation (D) Saponification 29. Which of the following metals is liquid at room temperature? (B) Silver (A) Gold (C) Mercury (D) Copper 30. Which of the following is a property of metals? (A) Brittle (B) Dull appearance (C) Good conductor of electricity (D) Low melting point 31. Which of the following is a fossil fuel? (A) Natural gas (B) Solar energy (C) Wind energy (D) Coal 32. What is the main constituent of natural gas? (A) Methane (B) Ethanol (C) Propane (D) Butane 33. The process of separating different components of crude oil is called: (A) Combustion (B) Distillation (C) Oxidation (D) Filtration 34. Which of the following is a non-renewable resource? (A) Solar energy (B) Wind energy (C) Coal (D) Biomass 35. Sodium (Na) is a _____, with _____ no of electron(s) in outermost shell. (A) Metal, 7 (B) Non-Metal, 1 (C) Metal, 1 (D) Non - Metal, 7

PART – III (BIOLOGY)

SIN	SINGLE OPTION CORRECT (+ 3, - 1, 0)				
36.	Which of the following to	ools would a farmer use to	remove weeds from the f	ield	
	(A) Hoe	(B) Axe	(C) Plough	(D) Cultivator	
37. The term used for the process of separation of grains from chaff is					
	(A) Sieving	(B) winnowing	(C) Threshing	(D) Hand picking	
38.	The monsoon season in our country is during the months				
	(A) April to December	(B) November to March	(C) June to September	(D) January to May	
39.	Pathogenic microorganisms present in host cells are killed by				
	(A) Pain Killer	(B) antibiotics	(C) vaccines	(D) antibodies	
40.	40. The System of irrigation where in the water is supplied drop by drop near the roots of t called			e roots of the plants is	
	(A) Pulley system	(B) Sprinkler system	(C) drip system	(D) lever system	
41.	The process of loosening and turning of soil is called				
	(A) irrigation and manua	gation and manuring (B) tilling and ploughing		,	
	(C) digging and winnow	ing	(D) harvesting and stora	ge	
42.	The process of conversio	n of sugar into alcohol is	;		
	(A) fermentation	(B) crystallization	(C) sedimentation	(D) filtration	
43.	Who discovered penicillin				
	(A) Alexander Fleming	(B) Louis Pasteur	(C) Edward Jenner	(D) None of these	
44.	Which of the following statements is not true for organic manure				
(A) It enhances water holding capacity of soil (B) It has a balance of all pl		plant nutrients			
	(C) It provides humus to	soil	(D) it improves texture of soil		
45.	Which one of following methods of preserving food pasteurization				
	(A) sugar		(B) preservatives		
	(C) Heat and cold treatm	ients	(D) chemical method		







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