ATOMIC ENERGY CENTRAL SCHOOL – 2, MUMBAI MULTIPLE CHOICE QUESTIONS TEST -1

CLASS IX

MATHS, SCIENCE AND SOCIAL SCIENCE

MAX. MARKS:- 60

TIME PERIOD:- 1 ¹/₂ HRS.

MATHEMATICS

1. Which of the	following is irrational?			
$(a)\sqrt{\frac{4}{9}}$	(b) $\frac{\sqrt{12}}{\sqrt{3}}$		(c) √7	(d) √81
2. The value	$\frac{\sqrt{32} + \sqrt{48}}{\sqrt{8} + \sqrt{12}} \text{of} $			
(a)√2		(b) 2	(c)4	(d)8
3. A rational num	mber equivalent to $\frac{5}{7}$ is			
(a) $\frac{15}{17}$		$(b)\frac{25}{27}$	$(c)\frac{10}{14}$	$(d)\frac{10}{21}$
4. The rational nu	mber 0.3 can also be w	ritten as		
(a) 3	$(b)\frac{3}{10}$	(c)0.33	$(d)\frac{13}{3}$	
5. On adding $2\sqrt{3}$	and $3\sqrt{2}$ we get			
(a) 5√5	(b)5($\sqrt{3}+\sqrt{2}$)	(c)21/3	3+3√2	(d) 2√6
6. The product of	$\sqrt{10}$ and $\sqrt{15}$ is			
(a) 6√5	(b) 5√6	(c)√25	(d) 10	√5
7. $\sqrt{12} + \sqrt{10} - \sqrt{2}$	IS			
(a) a positive rational(c) an irrational num	number nber	(b) equa (d) a n	al to 0 egative integer	
8. For positive real	numbers p and q, which	h of the followi	ng is not true?	

(a) $\sqrt{pq} = \sqrt{p}\sqrt{q}$ (b) $(p + \sqrt{q}) (p - \sqrt{q}) = p^2 - q$ (c) $\sqrt{\frac{p}{q}} = \frac{\sqrt{p}}{\sqrt{q}}$ (d) $(\sqrt{p} + \sqrt{q}) (\sqrt{p} - \sqrt{q}) = p + q$

9. If $\frac{1}{7} = 0.$ $\overline{14}$	$\frac{1}{2857}$, then $\frac{4}{7}$ equ	ials			
(a) 0.4285	571 (b)0.2	285714	(c) 0.857	142 (d)0.571	428
10. After ratio	nalizing the deno	minator of $\frac{7}{3\sqrt{3}-3}$	$\frac{1}{2\sqrt{2}}$ we get the	e denominator as	
(a) 13	(b)19		(c)5	(d)35	
11. $\frac{3\sqrt{12}}{6\sqrt{27}}$ is equ	ual to				
$(a)\frac{1}{2}$	((b)√3	$(c)\frac{1}{3}$	(d) √2	
12. $\frac{7+\sqrt{5}}{7-\sqrt{5}} - \frac{7-7}{7+7}$	$\frac{\sqrt{5}}{\sqrt{5}} = a + \frac{7\sqrt{5}}{11}$, then	<i>a</i> =			
(a) 0	(1	b)1	(c)2	(d)3	
13. The value of $\sqrt[4]{(81)^{-2}}$					
$(a)\frac{1}{3}$	($(0)\frac{1}{9}$	(c) 3	(d) – 27	
14.The value of	of $64^{-1/3}[64^{1/3}]$	$-64^{2/3}$]			
(a) – 3	(b) 4	(c) 8		(d) – 6	
15. Degree of the polynomial $(x + 2)(x^2 - 2x + 4)$ is					
(a) 1	(b) 2	(c)3	(d)4		
16. The zero of the polynomial $p(x) = 2x + 5$ is					
(a) $\frac{2}{5}$	$(b) - \frac{2}{5}$	$(c) - \frac{5}{2}$	(d) $\frac{5}{2}$		
17. The value	of $3x^2 + 5x - 2a$	t x = 2 is			
(a) – 10	(b) 20	(c) – 20		(d) 12	
18. If $p(x) = x$	$x^2 - 2\sqrt{2}x + 1$, t	hen $p(2\sqrt{2}) =$			
(a) 0	(b) 1	(c) $4\sqrt{2}$		(d) $8\sqrt{2} + 1$	
19. If $p(x) = x$	+ 3, then $p(x) + 2$	p(-x) is equal to			
(a)3	(b) 2x	(c) 0		(d) 6	
20. The value of the polynomial $5x - 4x^2 + 3$ when $x = -1$ is					
(a) – 6	(b) 6	(c) 2		(d) – 2	

SCIENCE

21.Harry was sitting in his room and his mother was cooking some food in the kitchen. After some time he got the smell of hot sizzling food because of a)Fusion b) Melting c) Diffusiond) Evaporation

22. In which of the following physical states of a substance force of attraction between the molecules is maximum?

(a)Solid (b) liquid (c) gas (a) all of these

23. Which is not a common characteristic property of matter?

(a) The molecules possess kinetic energy

(b) The molecules occupy certain volume

(c) The molecules are rigid and have fixed positions

(d) The molecules vibrate between the mean positions

24.Gases do not have _____.(a) high compressibility(b) large volume(c) high fluidity(d) high density

25. The amount of the heat energy required to change 1kg of solid into liquid at atmospheric pressure at its melting point is known as......a)Latent heat of evaporationb)Latent heat of vapourisationc) Latent heat of fusiond) Latent heat of fission

26. Thephenomenon of change of liquid into vapours at any temperature below its boiling point is called.....

a) Depositionb) Sublimationc) Evaporationd) Condensation

27. Rate of evaporation does not increases with

a) Increase of surface areab) Increase in humidity

c) Increase in temperatured) increase in wind speed

28. The complete breada). Mitochondria	eakdown of glucose in p b) Chloroplast	oresence of oxygen in th c) Ribosome	he cell takes place in d) Lysosomes
29. Which organelle a)RER	of the cell plays a cruci	al role in detoxifying n	nany poisons and drugs?
	b)SER	c)RNA	d)DNA
30. The Lysosomes s a) DNA	stores b)Fats	c) RNA	d) Hydrolytic enzymes
31. When did Robert	Hooke discover the ce	ll?	d) 1775
a)1665	b)1995	c)1885	
32.Which cell organe	elle is known as the "po	werhouse" of the cell?	
a) Golgi apparatusb)	Lysosomec) Nucleusd)	Mitochondria	
33.The cells arise fro	om pre-existing cells wa	ts stated by	d)Purkinje
a)Robert Brown	b)Virchow	c) Schleiden	

34. The process by which Amoeba engulfs its food is called a)DiffusionAmoeba engulfs its food is called b)EndocytosisC)Osmosisd)Plasmolysis				
35. A freely falling body is said to be moving with				
(a) constant non-zero acceleration (b) non-uniform motion				
(c) zero velocity (d) non-uniform acceleration				
36. A body travelling equal distances in equal intervals of time is said to be moving with uniform velocity if the body moves along a path				
(a) Straight (b) rectangular (c) circular (d) hexagonal				
37. If a body travels equal distances in equal intervals of time, then(a) the body is moving with uniform velocity(b) the body is moving with uniform acceleration(c) the body may be moving with uniform velocity				
(d) the body is moving with uniform deceleration				
38. The shortest distance measured from the initial to the final position of an object is known as :-				
(a) it's displacement (b) it's distance (c) it's velocity (d) none of these				
39. The rate of change in displacement is called :-(a) velocity (b) acceleration (c) Speed (d) retardation				
40. In 12 minutes, a car whose speed is 35 km/h travels a distance of				
(a) 7 km (b) 3.5 km (c) 245 km (d) None of these				
SOCIAL SCIENCE 41. Which of the following is not a physical capital?				

iv) human beings

i) Machineries

ii) money

iii) tools

42. Bigha, guintha, hectare etc. are the units of measuring------

i) land	ii) milk	iii) vegetables	iv) gold	1
43. Green Rev	volution benefit	ted the farmers	of mainly	
i) Punjab and	Haryana ii) l	Kerala and Kar	nataka	
iii) Meghalaya	and Manipur	iv) none of the	ese	
44. What is the	e main product	on activity in l	Palampur?	
i) fishing	ii) Farming	iii) Foi	restry	iv) business
45. Which cro	ps are grown i	n Palampur duri	ng rainy seasor	1?
i) Wheat and r	rice ii)Vege	etables iii) Jov	var and Bajra	iv) Maize and pumpkin
46. Crops grov	wn in winter se	ason are called		
i) kharif	ii) Rabi	iii) Zaid	iv) None of the	e above
47) Who led th	he military cou	p in Pakistan in	1999?	
i) Nawaz Shar	rif ii) Ber	azir Bhutto	iii) Mu	gabe iv) Pervez Musharraf
48. Saudi Aral	bia cannot be c	alled as a demo	cracy as:-	
i) The men ha	ve no ruling po	wer ii) wor	men have no vo	ting rights
iii) no value fo	or women's vot	es iv) mo	re value for me	n's votes
49. Mugabe w	as a ruler of			
i) Saudi Arabi	a ii) Este	onia iii) Fiji	iv) Zim	babwe
50. Democrac	y is a better for	m of Govt beca	ause:-	
i) It enhances	the dignity of c	itizens ii) imp	roves the quality	y of decisions
iii) Accountab	le form of Gov	t iv) All	of the above	
51. PRI ruled	in			
i) Zimbabwe	ii) Me	xico	iii) Myanmar	iv) Pakistan
52. Democrac	y is a form of g	government in v	which the rulers	are elected by the
i) President	ii) people	iii) men	iv) women	
53. The south in 2004 during	ernmost point of the Tsunami.	f the Indian Ur	nion8	got submerged under the sea water
i) Kanya kuma	ari ii) Indi	a point	iii) Indira point	t iv) Palk Strait
54. The land n	nass of India ha	as an area of		
i) 3.28million	square km.		ii) 6.28million	square km.
iii) 3.28 square	e km.		iv) 6.28 square	e km.
55. India is the	e la	argest country of	of the world.	

i) first ii) tenth iii) third iv) seventh 56. What is the latitudinal and longitudinal extent of themainland of India? ii) about 3° i) about 30° ii) about 40° iv) about 38° 57. Since the opening of the Suez Canal in 1869, India's distance from Europe has been reduced by -----. i) 8000 km ii) 7800 km iii) 7000 km iv) none of these 58. Sri Lanka is separated from India by a narrow channelof sea formed by the Palk Strait and the ----i) Gulf of Kham bat ii) Gulf of Mannar iv) Gulf of Oman iii) Persian Gulf 59. Which of the following is the Standard Meridian of India? i) 68°7'E ii) 23° 30'N iii) 97°25'E iv) 82°30'E 60. India's total area accounts for about ----- of the total geographical area of the world. i) 2.4 per cent ii) 3.4 per cent iii) 12.4 per cent iv) 2.8 per cent