Name	·									
Batcl	n Roll No		INDATION MOC	CK TEST						
	: 07-07-2024	CICC CHEMICTOV	PIOLOCY MATIIS	Class X(IX Studying)						
25FT	PHI	SICS+CHEMISTRY+ PHY	YSICS	Class A(IA Studying)						
1.	Identify the situati									
	·	through a rough surface	B) A ball moving throu	oh an inclined plane						
	,	through a smooth surface	D) All of above	gir air meimea piane						
2.		10 kg. What is its weight o	,							
2.	A) 28 N	B) 30 N	C) 98 N	D) 25 N						
3.	,	possessed by an object due	,							
٥.	A) Potential energy	•		D) Wind energy						
4.	,	celeration due to gravity in	,	estant (G). Mass of eath (M)						
	A) $g = \frac{GM^2}{R}$	B) $g = \frac{GM}{R^2}$	C) $g = \frac{GR^2}{M}$	D) $g = \frac{R^2}{GM}$						
5.	Reason for rainbo	w is ?								
	A) Refraction	B) Reflection	C) Dispersion	D) Polarization						
6.	Image formed by a	a plane mirror is;								
	A) Real	B) Inverted	C) Virtual	D) Erect						
7.	The slope of speed	l-time graph gives;								
	A) Speed	B) Velocity	C) Acceleration	D) Momentum						
8.	The graviational for	orce between two bodies d	oes not depend on							
	A) Their separatio	n	B) Their masses							
	C) The product of	their masses	D) The medium between	D) The medium between the two bodies.						
9.	What is the averag	ge velocity of a car that mo	oved 60 km in 2 hr?							
	A) 60 km/hr	B) 20 km/hr	C) 30 km/hr	D) 10 km/hr						
10.	In case of reflection	on of light, the angle of inc	idence (i) and angle of ref	lection (r) are related as						
	A) $i = r$	B) $i \le r$	C) $i > r$	D) None of these						
11.	The initial velocity	y of a body is 'u'. It is und	er uniform acceleration 'a	'its velocity 'v' at any time						

't' is give by;

$$A) v = u + at^2$$

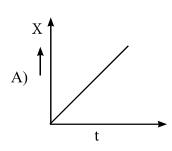
A)
$$v = u + at^2$$
 B) $v = u + \frac{1}{2}at^2$ C) $v = u + at$ D) $v = u$

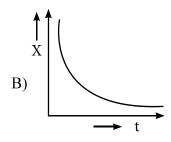
C)
$$v = u + a$$

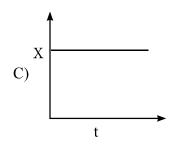
$$D) v = u$$

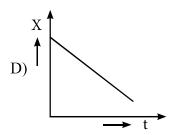
- 12. Which of the following is a correct measure of velocity?
 - A) 50 m/s
- B) $50 \text{ m}^2/\text{s}$
- C) 50m/s^2
- D) 50 N
- 13. Name the principle used in designing ships and submarines
 - A) Archimedes principle

- B) Gauss theorem
- C) Pauli's exclusion principle
- D) First law of motion
- 14. Identify the position time graph for an object which is at rest









- Joule is related to energy in the same way 'Pascal' is related to? 15.
 - A) Mass
- B) Pressure
- C) Density
- D) Purity
- An object weighs 20 N when measured on the surface of the earth. What would be its weight mea-16. sured on the surface of the moon?
 - A) 2.5 N
- B) 3.33 N
- C) 1.53 N
- D) 8.25 N
- When an object moves in a circular path with uniform speed, its motion is called..... 17.
 - A) Uniform motion

B) Non uniform motion

C) Uniform acceleration

- D) None of the above
- 18. Select the vector quantity from the following;
 - A) Time
- B) Distance
- C) Speed
- D) Velocity
- 19. If the athlete takes t seconds to go once around the circular path of radius r, the speed v is;
 - A) $v = 2\pi rt$
- B) $v = \frac{t}{2\pi r}$
- C) $v = \frac{2\pi r}{t}$ D) $v = \frac{2\pi}{rt}$
- 20. A car accelerates uniformly from 18 km/hr to 36 km/hr in 5 s. Calculate the distance covered by the car in that time.
 - A) 37.5 m
- B) 25.1 m
- C) 20.20 m
- D) 100m

21.	Due to which force a	rolling ball stops after	some time?									
	A) Gravitational force	2	B) Electrtostatic force									
	C) Frictional force		D) All of the above									
22.	The splitting of light i	nto its constituent color	ours is known as ;									
	A) Reflection	B) Refraction	C) Polarization	D) Dispersion								
23.	Select the correct rela	tion between acceleration	on and velocity									
	A) Velocity = Acceler	ration × time	B) Velocity = $\frac{\text{Acceleration}}{\text{Time}}$									
	C) Velocity = Acclera	tion -time	D) Velocity = Acceler	ation +Time								
24.	SI unit of power is:											
	A) Watt	B) Joule	C) Newton	D) Metre								
25.	Select the correct rela	tionship between force	and acceleration									
	A) $F = \frac{\text{mass}}{\text{acceleration}}$		B) Force = $mass \times acc$	eleration								
	C) Force = $\frac{\text{acceleration}}{\text{mass}}$	<u>on</u>	D) Force = $(mass \times ac)$	celeration) ^{1/2}								
		CHEM	<u>IISTRY</u>									
26.	Separation using separating funnel technique is used to separate											
	A) Miscible liquid with greater difference in boiling point											
	B) Tighter particles fr	om heavier particles										
	C) Immiscible liquids											
	D) More than one solu	ute dissolved in same so	olvent									
27.	Sweaters and blankets	s are prepared from the	synthetic fibre called									
	A) Nylon	B) Acrylic	C) Rayon	D) Cotton								
28.	Which substance is fo	ormed by the carbonisat	ion of dead vegetation									
	A) Coke	B) Coal gas	C) Coal	D) Coal tar								
29.	Which of the following	ng is a chemical change										
	A) Melting of butter	B) Boiling of milk	C) Souring of milk	D) Evaporation of water								
30.	The number of atoms	in ozone molecule is										

C) 1

D) 4

A) 2

B) 3

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31.	Among the given se	t of substances pure sub	stances are								
	Salt solution, sugar, copper gold chain, sodium, milk shake										
	A) Sugar, copper		B) Sugar, gold chain, copper								
	C) Sugar, copper, so	odium	D) Salt solution, milk	shake							
32.	Decomposition of ca	alcium carbonate give ri	se to								
	A) O ₂	B) H ₂	C) CO ₂	D) H ₂ O							
33.	pH value of an acidic substance is always										
	A) Less than 7	B) Greater than 7	C) Equal to 7	D) Greater than 14							
34.	To a solution of acid be the observation.	lic nature taken in a beak	er two drops of phenolphthalein is added. What would								
	A) Solution remains	s colourless	B) Solution turns red								
	C) Solution turns pi	nk	D) Precipitation occu	rs							
35.	Type of chemical bo	ond present in calcium fl	uoride is								
	A) Ionic bond	B) Covalent bond	C) Coordinate bond	D) Hydrogen bond							
36.	Which of the follow	ring is not a component	of petroleum								
	A) Paraffin wax	B) Petrol	C) Lubricating oil	D) Bee wax							
37.	Matter is anything the	hat									
	A) Has mass only		B) Need space to occ	upy							
	C) Has mass and vo	lume	D) Has mass and need	d space to occupy							
38.	Polycot is a mixture	of									
	A) Polyester + Tery	lene	B) Polyester + Wool	B) Polyester + Wool							
	C) Polyester + cotto	n	D) Polythene + Terylo	D) Polythene + Terylene							
39.	, ,		ween zinc and dil.HCl. Shill be a characteristic of l	ne knows that the evolved gas nydrogen?							
	A) Turns lime water	milky	B) Burn with a pop so	ound							

C) Extingushes the flame of matchstick

D) Supports the burning of the flame of match stick

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40.	Graphite is an allotro	pe ofv	with the property of								
	A) Carbon, electrical	conductivity	B) Germanium, elect	B) Germanium, electrical insulation							
	C) Carbon, hardness		D) Calcium, electrical insulation								
41.	Sonority is the ability	of metals to									
	A) Beaten into thin s	heets	B) Be drawn into this	n wires							
	C) Conduct ions thro	ugh them	D) Produce sound								
42.	Compressed natural	gas is									
	A) Easy to transport	through pipes	B) Stored under low	pressure							
	C) Not used as a fuel		D) Obtained from co	al							
43.	Rubber is a polymer	formed by the combina	ntion of monomer molec	ules called							
	A) Glucose	B) Isoprene	C) Propene	D) Ethene							
44.	Copper wires are generally used in electrical circuits. The physical properteis used here are										
	A) Malleability and o	luctility	B) Malleability and s	sonority							
	C) Hardness and then	rmal conductivity	D) Ductility and elec	etrical conductivity							
45.	The process of making	ng yarn from fibres is ca	alled								
	A) Twinning	B) Kniffing	C) Weaving	D) Spinning							
46.	Which of the followi	ng is not an inert gas?									
	A) Hydrogen	B) Helium	C) Argon	D) Neon							
47.	A tea bag immersed i	n a cup of hot water cha	anges it's colour. Name t	he property responsible for it.							
	A) Osmosis	B) Diffusion	C) Dispersion	D) Refraction							
48.	When vapours of Na known as	aphthalene are called,	then change directly int	to solid form. This process is							
	A) Crystallisation	B) Condensation	C) Deposition	D) Vapourisation							
49.	is a co	plourless gas with the si	mell of rotton eggs								
	A) H ₂ O	B) HF	C) H ₂ S	$D) N_2O$							
50.	Materials which are not a natural resource		re called natural resourc	es. Which of the following is							
	A) Soil	B) Water	C) Mineral	D) Plastic							

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51.	Sunflower is a										
	A) Cereals crop	B) Oil seed crop	C) Root crop	D) Vegetable crop							
52.	Which is the by-produ	ct of honey comb?									
	A) Grease	B) Wax	C) Vitamin	D) Sugar							
53.	Which of the following	g is a parasite?									
	A) Plasmodium	B) Paramoecium	C) Amoeba	D) Codonosiga							
54.	Bacteria which conver	t Nitrite into Nitrate									
	A) Acetobacter	B) Nitrobacter	C) Nitrosome	D) Psedomonas							
55.	What is the cause of D	eforestation									
	A) Intensive agricultur	re	B) Construction of a dam								
	C) Urbanization		D) All of the above								
56.	Which of the following	g is a threatened species									
	A) Dodo	B) Dinosaur	C) The giant panda	D) All of the above							
57.	Trypanosoma brucci ca	auses									
	A) Infection	B) Amoebic dysentery	C) Sleeping sickness	D) None of these							
58.	Which one do not have	e cellular structure?									
	A) Viruses	B) Plants	C) PPLO	D) Animals							
59.	Nucleus is concerned v	with									
	A) Respiration		B) Secretion								
	C) Control of cellular	activites	D) Protein synthesis								
60.	Bacteria are considered	d more as plants than an	imals because of the pro	esence of							
	A) DNA	B) Plasma membrane	C) Cell wall	D) Mitochondria							
61.	Organism which show	binary fission is									
	A) Yeast	B) Spirogyra	C) Amoeba	D) All of the above							
62.	Pollution affects										
	A) Plants	B) Animals	C) Human beings	D) All of these							

63.	Incomplete combustion of carbon forms											
	A) CO ₂	B) H ₂ O vapours	C) Carbon	D) CO								
64.	Fertigation is a new r	nethod to apply										
	A) Manures	B) Fertilizers	C) Water	D) Both B and C								
65.	For what blue revolut	tion refers to										
	A) Wheat	B) Egg	C) Fish	D) Oil								
66.	Cell secretion is done	e by										
	A) Plastids		B) Endoplasmic retic	ulum								
	C) Golgi apparatus		D) Nucleus									
67.	Chloroplast are forme	ed in										
	A) All cells		B) All eukaryotic cells									
	C) Only in animal cel	lls	D) None of these									
68.	In all the site of oxida	ation is										
	A) Ribosome	B) Golgi apparatus	C) Mitochondria	D) Endoplasmic reticulum								
69.	In fishes fertilization	is,										
	A) External	B) Internal	C) Both of above	D) None of above								
70.	Which of the following	ng is a mixed gland?										
	A) Pituitary	B) Thyroid	C) Pancreas	D) Ovary								
71.	Which of the following	ng is a female sex horm	, , , , , , , , , , , , , , , , , , ,									
	A) Testosterone	B) Thyroxine	C) Estrogen	D) Adrenaline								
72.	Fertilization in human	n beings occurs in										
	A) Uterus	B) Fallopian tubes	C) Cervix	D) Vagina								
73.	Main acid present in	acid rain is										
	A) H_2SO_4	B) HNO ₃	C) CH ₃ COOH	D) Both A and B								
74.	Which is not a type o	f binary fission										
	A) Circular fission	B) Irregular fission	C) Longitudinal fission	on D) Transverse fission								
75.	Functions of endoplasmic reticulum is											
	A) Support	B) Detoxification	C) Lipid synthesis	D) All of the above								

MATHEMATICS

8

- $(a+b)\times(a-b)$ is equal to 76.
 - A) $a^2 b^2$
- B) $a^2 + b^2 + 2ab$
- C) a+b
- D) a b

- $125^{0} + 3^{0} + 6^{0} + 3^{1}$ is equal to 77.
 - A) 6

B) 0

C) 1

D) 3

- $P(x) = 6x^4 + 3x^3 6x^2 + 7$, find P(1)78.
 - A) 7

- C) -6
- D) 1

- Find the value of $\frac{3^4 \times 9^2 \times 27^2}{3^{10}}$?
 - A) 3

C) 3^{4}

D) 3^{3}

- Find $81^{0.2} \times 81^{0.3}$? 80.
 - A) 81

B) 3

- C) 81^{5}
- D) 9

- What is the perimeter of the square of sides 20cm? 81.
 - A) 80 cm²
- B) 80 cm
- C) 40 cm
- D) 40 cm²

- 82. Choose the whole number from the following
 - A) 0

- B) -1
- C) $\frac{1}{2}$
- D) $-\frac{1}{7}$

- On dividing $6\sqrt{27}$ by $2\sqrt{3}$ we get, 83.
 - A) $3\sqrt{9}$
- B) 6

C) 9

D) None of these

- 7x + 2 = 0 will have 84.
 - A) Unique solution
- B) Two solutions
- C) Infinitely many solutions D) No solutions
- A triangle in which two sides are equal is called 85.
 - A) Scalene triangle
- B) Equilateral triangle C) Isosceles triangle
- D) None of these

- A median of a triangle divides it into two 86.
 - A) Congruent triangles B) Isosceles triangles C) Right triangles
- D) Equal area triangles

- 87. A rhombus can be a
 - A) Parallelogram
- B) Trapezium
- C) Kite
- D) Square

- Any point on the x-axis is of the form 88.
 - A)(x,y)
- B) (0, y)
- C)(x, 0)
- D)(x, x)

89.	The co-efficient of x^2 i	$\sin 3x^3 + 2x^2 - x + 1$ is										
	A) 1	B) 2	C) 3	D) -1								
90.	The sum of all the angles of a quadrilateral is equal to											
	A) 180°	B) 270 ⁰	C) 360°	D) 90 ⁰								
91.	Find the value of k if $x = 1$, $y = 2$ is a solution of the equation $2x + 3y = k$											
	A) 5	B) 6	C) 7	D) 8								
92.	Angles of a triangle are in the ratio 2:4:3, The smallest angle of the triangle is,											
	A) 20°	B) 40°	C) 60°	D) 80°								
93.	If the co-ordinates of a point are $(0, -4)$ then it lies in											
	A) x axis	B) y axis	C) at origin	D) None of these								
94.	Any point on line $x = \frac{1}{2}$	y is of the form										
	A) $(k,-k)$	B) $(0,k)$	C) $(k,0)$	D) (k,k)								
95.	An obtuse angle is											
	A) Less than 90°	B) Greater than 90°	C) Equal to 90°	D) Equal to 180 ⁰								
96.	$x^2 - 2x + 7$ is a polynomial in											
	A) One variable	B) Two variables	C) Three variables	D) None of these								
97.	If a, b and c are the lengths of three sides of a triangle then											
	A) $a+b>c$	B) $a-b>c$	C) $a+b=c$	D) $a-b=c$								
98.	The degree of $4x^3 - 12x^2 + 3x + 9$ is											
	A) 0	B) 1	C) 2	D) 3								
99.	$8 \times 8 \times 8 \times 8 \times 8$ is equal	to										
	A) 8 ⁵	B) 8 ³	C) 8 ⁰	D) 8^{6}								
100.	The side length of 2cm	n, 3cm and 6 cm can be	sides of									
	A) Scalene triangle		B) Isosceles triangle									
	C) Equilateral triangle		D) None of these									

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FOUNDATION MOCK TEST

Batch..... Roll No.

Date: 07-07-2024

25FT	P/P	PHYSIC	CS+CHEM	GY+MATHS	1	Class X(IX Studying)		
PHY	<u>YSICS</u>	<u>CH</u>	EISTRY	BIO	<u>LGY</u>	MA		MAT-
1.	A	26.	C	51.	В		<u>IC</u>	<u>CS</u>
2.	C	27.	В	52.	В	76.	A	
3.	C	28.	C	53.	A	77.	A	
4.	В	29.	C	54.	В	78.	В	
5.	C	30.	В	55.	D	79.	С	
6.	C	31.	C	56.	C	80.	D	
7.	C	32.	C	57.	В	81.	В	
8.	D	33.	A	58.	A	82.	A	
9.	C	34.	A	59.	C	83.	С	
10.	A	35.	A	60.	C	84.	A	
11.	C	36.	D	61.	C	85.	С	
12.	A	37.	D	62.	D	86.	D	
13.	A	38.	C	63.	D	87.	D	
14.	C	39.	В	64.	D	88.	С	
15.	В	40.	A	65.	C	89.	В	
16.	В	41.	D	66.	C	90.	C	
17.	A	42.	A	67.	A	91.	D	
18.	D	43.	В	68.	C	92.	В	
19.	C	44.	D	69.	A	93.		
20.	A	45.	D	70.	C		D	
21.	C	46.	A	71.	C		В	
22.	D	47.	В	72.	В	96.		
23.	A	48.	C	73.	D	97.		
24.	A	49.	C	74.	A	98.		
25.	В	50.	D	75.	D	99.		
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