Name		
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Batch..... Roll No.

Date:07-07-2024

FOUNDATION SCREENING MOCK TEST SERIES

PHYSICS + CHEMISTRY +	BIOLOGY	+ MATHEMATICS
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FN2	4 _D /TP/PCBM	PHYSICS + CHEMISTRY	+ BIULUGY + MAIHEMAIII	Class IX (VIII Studying)
		PHY	YSICS	
1.	The graph between o	distance and time for a ne	on-uniform motion is	
	A) Curve line	B) Straight line	C) Parallel line	D) Zig-zag line
2.	The speed of a train	is 60 km/h. The distance	covered by the train in 4	hours would be:
	A) 15 km	B) 240 km	C) 0.06 km	D) 150 km
3.	A simple pendulum	is an example of		
	A) Circular motion	B) Periodic motion	C) Linear motion	D) Rotational motion
4.	An element which e	asily get magnetized and	demagnetized is	
	A) Steel	B) Copper	C) Iron	D) Silver
5.	Magnetic materials	include		
	A) Steel	B) Iron	C) Nickel	D) All of them
6.	A substance consisti current flows throug	_	an iron core, and is only n	nagnetized, when an electri
	A) Magnet	B) Electromagnet	C) Permanent magnet	D) Coil
7.	5 m = cm			
	A) 5000 cm	B) 500 cm	C) 50 cm	D) 250 cm
8.	Force =			
	A) m × a	B) m/a	C) m + a	D) m - a
9.	Unit of force is			
	A) Pascal	B) Newton	C) Joule	D) Kelvin

10.	Motion of a child on a	swing is		
	A) Circular motion	B) Periodic motion	C) Linear motion	D) Oscillatory motion
11.	Which one is a poor c	onductor of electricity		
	A) Acidic solution	B) Alkaline solution	C) Salt solution	D) Distilled water
12.	An electric bulb glow	s due to		
	A) Heating effect	B) Magnetic effect	C) Chemical effect	D) Physical effect
13.	Electroplating prevent	ts		
	A) Corrosion	B) Shining	C) Passing of current	D) Dissociation
14.	The passage of an elec	etric current through a se	olution cause	
	A) Chemical effect	B) Electric effect	C) Magnetic effect	D) No effect occurs
15.	The sound produced b	y a Harmonium?		
	A) Musical sound	B) Audible sound	C) Noise	D) In-audible sound
16.	An object is vibrating	at 50 Hz. What is its tin	ne period?	
	A) 0.02 sec	B) 0.2 sec	C) 2 sec	D) 20 sec
17.	1 Hertz is equal to			
	A) 1 vibration/minute		B) 10 vibrations/ minu	ute
	C) 60 vibrations/minu	te	D) 100 vibrations/min	ute
18.	Number of oscillation	s per second is called		
	A) Amplitude	B) Period	C) Frequency	D) Pitch
19.	Which of the following	g is correct regarding th	ne rods and cones in the	human eye?
	A) Cones are sensitive	e to dim light	B) Cones are sensitive	e to bright light
	C) Rods are sensitive	to bright light	D) Rods can sense col	our

20.	If the reflected ray is at an angle of 90° to the incident ray. Find the angle of incidence?			
	A) 90°	B) 40°	C) 45 ⁰	D) 0^{0}
21.	Image formed by a pla	ne mirror is :		
	A) Real	B) Inverted	C) Virtual	D) Errect
22.	The size of the pupil be	ecomes when	you see in dim light	
	A) Small	B) Large	C) No change	D) Either large or small
23.	Identify the fourth state	e of matter		
	A) Solid	B) Liquid	C) Gas	D) Plasma
24.	Materials made of part	icles of identical nature	are called	
	A) Pure substance	B) Impure substances	C) Mixtures	D) Liquids
25.	In the state, part	ticles are relatively farth	ner apart	
	A) Solid	B) Liquid	C) Gas	D) Both B & C
		<u>CHEM</u>	ISTRY	
26.	Which of the following	g is a synthetic fibre		
	A) Jute	B) Rayon	C) Silk	D) Wool
27.	The chemical known a	s oil of vitriol is		
	A) Ferrous sulphate	B) Copper sulphate	C) Sulphuric acid	D) Nitric acid
28.	Number of electrons p	resent in Helium atom,	Hydrogen atom and Car	rbon atom respectively
	A) 1, 2, 6	B) 2, 1, 6	C) 1, 1, 12	D) 4, 1, 12
29.		of ammonium chloride a parate the components?		Which method of separation
	A) Filtration	B) Winnowing	C) Sublimation	D) Distillation

30.	. Identify the property of non-metals from the given alternatives			
	A) Malleability		B) Ductility	
	C) Sonority		D) Poor conductor of	heat
31.	The substances that ca	an be used to reduce sur	face tension of water	
	A) Pine oil	B) Soap	C) Benzene	D) Petrol
32.	The correct way of re	presenting a phosphoro	us molecule is	
	A) P	B) 4 P	C) P ₄	D) P ₈
33.	The state of solution to	formed by mixing alcoh	ol and water is	
	A) Solid	B) Liquid	C) Gas	D) Plasma
34.	Chaff from paddy can	be separated by using t	he technique	
	A) Filtration	B) Evaporation	C) Freshing	D) Winnowing
35.	Fragrance of hot food	items, spread easily du	e to the process of	
	A) Osmosis	B) Diffusion	C) Dispersion	D) Radiation
36.	Identify the activity the	nat does not cause water	pollution from the give	n alternatives
	A) Rampant use of fe	rtilizers		
	B) Excessive use of d	etergents		
	C) Dumping waste in	water bodies		
	D) Cleaning water res	sources by removing Af	rican mosses	
37.	Polymer used for mar	nufacturing unbreakable	crockery is	
	A) Polythene		B) PVC	
	C) Melamine-formal	lehyde resin	D) Bakelite	

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38.	Bases has the ability t	o turn		
	A) Red litmus	Blue	B) Blue litmus	Violet
	C) Blue litmus	Red	D) Red litmus	Yellow
39.	Freezing point of wat	er is		
	A) 0^{0} C	B) 100°C	C) 1000°C	D) 273°C
40.	Chemical reactions th	at absorb heat are called	i	
	A) Endothermic react	ion	B) Exothermic reaction	n
	C) Electrochemical re	raction	D) Photo-chemical rea	action
41.	Organic acid found in	lemon is		
	A) Lactic acid	B) Citric acid	C) Acetic acid	D) Malic acid
42.	The constituents of N	ichrome is		
	A) Nickel, Chromum,	iron	B) Copper and Zinc	
	C) Iron, Aluminium, I	Nickel, Cobalt	D) Copper and Tin	
43.	Most appropriate met	hod to separate ethanol	(b.p - 78°C) and methan	ol (bp - 65°C) is
	A) Distillation		B) Fractional distillati	on
	C) Sublimation		D) Filtration	
44.	Total number of atom	s present in 2K ₂ Cr ₂ O ₇ m	nolecule is	
	A) 1	B) 2	C) 22	D) 12
45.	Identify balanced che	mical reaction from give	en alternatives	
	A) $Mg + O_2 \longrightarrow Mg$	gO	B) $Na + Br_2 \longrightarrow Na$	Br
	C) $H_2 + O_2 \longrightarrow H_2 C$)	D) $C + O_2 \longrightarrow CO_2$	

46. Which of the following statements is true about alkalies?

	A) Bases which are	soluble in water are c	called alkalies		
	B) Bases which are soluble in acids are called alkalies				
	C) Bases on dissolving in non polar solvents produce H ⁺ ions				
	D) Bases are sour in	n taste			
1 7.	The positively charge	ged centre of an atom	is called it's		
	A) Electron		B) Orbit		
	C) Nucleus		D) Nucleolus		
18.	Hydrochloric acid(likely pH values of	_ · ·	l acid. Sodium hydroxi	de (Y) is a strong base.	Then the
	A) X-14	B) X-0	· ·	D) X-6	
	Y - 14	Y-14	Y-0	Y-8	
19.	Name the metal oxi	de which is amphoter	ic in nature?		
	A) Zinc oxide		B) Sodium oxide	:	
	C) Magnesium oxid	le	D) Carbon dioxid	de	
50.	Some statements ab	out suspension are gi	ven. Identify the wrong	g one.	
	I. Suspension is a h	nomogenous mixture.			
	II. Particles of a su	spension can not be se	een by a naked eye.		
	III. When a suspen	sion is left undisturbe	d, solute particles will	settle down.	
	IV. Chalk water mix	xture is an example fo	r suspension		
	A) I, III		B) I, II, IV		
	C) I, II, III		D) I, II		

BIOLOGY

51.	Plants are			
	A) Autotrophic	B) Heterotrophic	C) Saprophytic	D) Holozoic
52.	Chlorophyll absorbs			
	A) Red light only	B) Blue light only	C) Red and blue light	D) Green light only
53.	The role of chlorophyl	ll in photosynthesis is to		
	A) Absorb water and r	minerals		
	B) Absorption of CO ₂			
	C) Absorption of light	and photolysis of water		
	D) Absorption of light			
54.	The phenomenon which	ch converts light energy	to chemical energy is	
	A) Respiration	B) Photosynthesis	C) Transpiration	D) None of these
55.	Climate in the coastal	regions is		
	A) Hot and dry		B) Moderate and humi	id
	C) Cold and dry		D) Cold and humid	
56.	Water vapour present	in atmosphere is called?		
	A) Humidity	B) Precipitation	C) Climate	D) Rainfall
57.	Animal not found in p	olar region is		
	A) Polar bear	B) Penguin	C) Seal	D) Elephant
58.	Breakdown reaction as	re called		
	A) Anabolism	B) Catabolism	C) Metabolism	D) All of these

59.	The process of respira	ation is		
	A) Anabolic	B) Catabolism	C) Metabolism	D) All of these
60.	Opening of stomata is	s guarded by		
	A) Mesophyll cells	B) Guard cells	C) Xylem	D) Phloem
61.	Unicellular organisms	s takes in oxygen and re	lease carbon dioxide thr	rough the process of
	A) Osmosis	B) Diffusion	C) Absorption	D) None
62.	Diaphragm is a charac	cteristic of		
	A) Birds	B) Reptiles	C) Mammals	C) All vertebrates
63.	Which of the following	ng is not transported in p	olants	
	A) Organic food	B) Minerals	C) Water	D) Nitrogenous wastes
64.	Conduction of minera	als takes place through		
	A) Xylem	B) Phloem	C) Parenchyma	D) None of these
65.	Human heart is divide	ed into		
	A) 4 chambers	B) 5 chambers	C) 3 chambers	D) 2 chambers
66.	In which organ urea is	s synthesised?		
	A) Liver	B) Kidney	C) Gall bladder	D) Spleen
67.	Asexual reproduction	through budding occurs	s in	
	A) Rose	B) Neem	C) Yeast	D) Ginger
68.	Simplest and most co	mmon method of reproc	luction is	
	A) Budding	B) Binary fission	C) Fragmentation	D) Regeneration
69.	Which one of the follo	owing is not a female re	productive organ of a flo	ower?
	A) Stigma	B) Style	C) Anther	D) Ovary

70.	Double fertilization is characteristic of			
	A) Angiosperms	B) Algae	C) Gymnosperms	D) Bryophytes
71.	Resting stage of plan	t parts is called		
	A) Dormancy	B) Germination	C) Budding	D) Regeneration
72.	A group of cells perfe	orming common function	on can be called as	
	A) Tissue	B) Organs	C) Organ systems	D) Cell aggregate
73.	Which among the fol	lowing is the most abur	ndant permanent tissue, i	n a young plant
	A) Parenchyma	B) Collenchyma	C) Sclerenchyma	D) Phloem
74.	Tissue composed ma	inly of dead cell is		
	A) Collenchyma	B) Epidermis	C) Xylem	D) Endodermis
75. In closed circulatory system blood is completely enclosed with in				
	A) Sinus	B) Lymph	C) Plasma	D) None of these
		MATHI	EMATICS	
76.	If y is the reciprocal	of rational number x, the	en the reciprocal of y wi	11 be
	A) x	В) у	C) $\frac{x}{y}$	D) $\frac{y}{x}$
77.	Multiplicative inverse	e of a negative rational	number is	
	A) A positive rational	l number	B) A negative rationa	l number
	C) 0		D) 1	
78.	The value of $\left(\frac{2}{5}\right)^{-2}$ i	S		
	A) $\frac{4}{5}$	B) $\frac{4}{25}$	C) $\frac{25}{4}$	D) $\frac{5}{2}$

70	For a non-zero integer v	$\mathbf{x}^7 \div \mathbf{x}^{12}$ is equal to	

- A) x^5
- B) x^{19}
- C) x^{-5}
- D) x^{-19}

80. Coefficient of y in the term of
$$\frac{-y}{3}$$
 is

- A) -1
- B) -3
- C) $-\frac{1}{3}$
- D) $\frac{1}{3}$

81. Square of
$$9x - 7xy$$
 is

A) $81x^2 + 49x^2y^2$

B) $81x^2 - 49x^2y^2$

C) $81x^2 + 49x^2y^2 - 126x^2y$

D) $81x^2 + 49x^2y^2 - 63x^2y$

82. The value of
$$(3x^3 + 9x^2 + 27x) \div 3x$$
 is

- A) $x^2 + 9 + 27x$ B) $3x^2 + 3x^2 + 27x$ C) $3x^3 + 9x^2 + 9$ D) $x^2 + 3x + 9$

83. The value of
$$(a+b)^2 + (a-b)^2$$
 is

- A) 2a + 2b
- B) 2a-2b
- C) $2a^2 + 2b^2$
- D) $2a^2 2b^2$

84. The value of x for which the expressions
$$3x-4$$
 and $2x+1$ become equal is

- A) -3
- B) 0

C) 5

D) 1

85. If a and b are positive integers, then the solution of the equation
$$ax = b$$
 has to be always

- A) Positive
- B) Negative
- C) One
- D) Zero

- A) 150°
- B) 135°
- C) 45°
- D) 75⁰

- A) 180°
- B) 360°
- C) 540°
- D) 720°

- A) Bar graph
- B) Histogram
- C) Pictograph
- D) Pie chart

- 89. A coin is tossed three times. The number of possible outcomes is
 - A) 3

B) 4

C) 6

D) 8

MOCK TEST

- 90. $-5-3[-7-(-6)]^2$
 - A) 5

B) 3

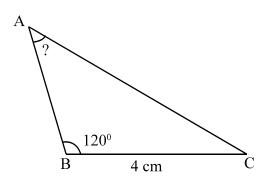
- C) -3
- D) -8

- 91. $\frac{\sqrt{81} \times \sqrt[3]{-125}}{-3 + (-3) 3}$
 - A) -5
- B) 5

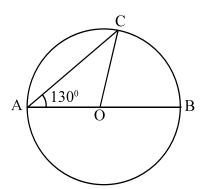
- C) -15
- D) -9

- 92. $\frac{5}{7} + \frac{3}{7} \times \frac{14}{24} = x$ then find x
 - A) $\frac{28}{27}$
- B) $\frac{27}{28}$
- C) $\frac{7}{28}$
- D) $-\frac{27}{28}$

- 93. $6.75 \times 5.5 + 5.5 \times 3.25$
 - A) 55
- B) 0.55
- C) 550
- D) 5.5
- 94. In the figure $\angle A = \angle C$. Also $\angle B = 120^{\circ}$ and BC = 4 cm then $\angle A$?



- A) 60°
- B) 40°
- C) 90°
- D) 30°
- 95. In the figure 'O' is the centre of the circle and $\angle OAC = 30^{\circ}$. Find $\angle AOC$?



- A) 60°
- B) 30°
- C) 90°
- D) 120°

0.0	33.71 4 4 41	C 1 C	10 11 1 0	
90.	what is the sum	of angles of a	. 12 sided polygon?	

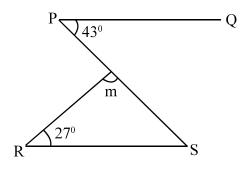
- A) 1000°
- B) 500°
- C) 1800°
- D) 0^{0}

97. All the angles of a 9 sided polygon are equal. Calculate one outer angle

- A) 140⁰
- B) 40°
- C) 80°
- D) 90°

- A) Greater than 60°
- B) Less than 60°
- C) Equal to 60°
- D) Equal to 90°

99. In figure, if PQ || RS then the measure of 'm'



- A) 110^{0}
- B) 100°
- C) 90°
- D) 133°

100. Arun deposited Rs.5000 in a bank where compound of interest is computed half yearly. Rate of interest is 20 percent annually. Money was withdrawn after an year. How much amount Arun got after the year?

- A) 6000
- B) 6050
- C) 6500
- D) 5060

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Date:07-07-2024

P + C + B + M - KEY	Class IX (VIII Studying)

FN24 _D /TP/PCBM		P + C + B + M - KEY			Class IX (VIII Studying)		
<u>PHYSICS</u>		CHEMISTRY	BIO	BIOLOGY		MATHEMATICS	
1.	A	26. B	51.	A	76.	A	
2.	В	27. C	52.	С	77.	В	
3.	В	28. B	53.	D	78.	C	
4.	C	29. C	54.	В	79.	C	
5.	D	30. D	55.	В	80.	C	
6.	В	31. B	56.	A	81.	C	
7.	В	32. C	57.	D	82.	D	
8.	A	33. B	58.	В	83.	C	
9.	В	34. D	59.	В	84.	C	
10.	A	35. B	60.	В	85.	A	
11.	D	36. D	61.	В	86.	В	
12.	A	37. C	62.	C	87.	D	
13.	A	38. C	63.	D	88.	D	
14.	A	39. A	64.	A	89.	D	
15.	A	40. A	65.	A	90.	D	
16.	A	41. B	66.	A	91.	В	
17.	C	42. A	67.	C	92.	В	
18.	C	43. B	68.	В	93.	A	
19.	В	44. C	69.	C	94.	D	
20.	C	45. D	70.	A	95.	D	
21.	C	46. A	71.	A	96.	C	
22.	В	47. C	72.	A	97.	В	
23.	D	48. B	73.	A	98.	В	
24.	A	49. A	74.	C	99.	A	
25.	С	50. D	75.	В	100.	В	