DDPI Office, Kolar District

SCIENCE MODEL PAPER-1 (2020-21) MCQ PATTERN

Four choices are given for each of the questions/incomplete statements. Choose the correct answer and shade the correct choice in the OMR given to you with blue / black ball point pen:

41)	Velocity of light in vacuum is $3X10^8$ ms-1. If the velocity of light in a medium is $2X10^8$ ms-1, what is					
	the refractive index of the	ne medium?				
	A) 6	B) 5	C) 2.5	D) 1.5		
42)	The radius of curvature (A) 45cm	of a convex lens is 300 B) 30cm	cm. Its focal length is C) 15cm	: D) 7.5cm		
43)	A convex lens has a focal length of 10cm. At what distance from the lens should be an object be					
	placed to get an image a A) 10cm	at a distance of 20cm B) 20cm	from the lens on the o	other side of it? D) 60cm		
44)	If the focal length of a le A) 1D	ns is 0.25m, its power B) 2D	will be : C) 3D	D) 4D		
45)	Consider the following s	tatements on connect	ing ammeter and volt	meter in an electric circuit and		
	identify the correct one: A) Ammeter is connected in series and Voltmeter is in parallel B) Voltmeter is connected in series and Ammeter is connected in parallel C) Both Ammeter and Voltmeter are connected in series D) Both Ammeter and Voltmeter are connected in parallel					
46)	If 1800 coulomb electric charges pass through an electric device in 10minutes, then the electric					
	current through the circle A) 1.5A	uit is : B) 3A	C) 18A	D) 180A		
47)	If a resistor of resistance 40 produce 1000J of heat energy, the potential difference between the					
	two of the resistor is : A) 25V	B) 100V	C) 150V	D) 200V		
48)	Calculate the current flo	ws through the 10 Ω re	esistor in the following	g circuit :		
	A) 1.2 A C) 0.2 A	B) 0.6 A D) 2.0 A		20 Ω 10 Ω B		
49)) To get 2 Ω resistance using only 6 Ω resistors, the number of					
	them required is : A) 2 C) 4	B) 3 D) 6		5 Ω		
50)	The magnetic needle brought near a conductor carrying current : A) remains stationary B) deflects C) does not deflect D) becomes non magnetic		· 6 V			
51)	The magnetic field lines inside a solenoid carrying current are : A) Curved loops B) From north to south C) Parallel straight lines D) Concentric circles					
52)	The safety device in a do A) Switch	omestic circuit is : B) Rheostat	C) Fuse	D) Electricity meter		
53)	Major constituent of biograms A) Butane	gas : B) Hydrogen	C) Methane	D) Carbon dioxide		
54)	Which of these is a rene A) Coal	wable energy source? B) Petroleum	C) Natural Gas	D) Solar Energy		

55)	A blue litmus paper is dipped first in dilute HCl solution followed by dilute NaOH solution. The				
	change observed in the litmus paper is : A) Changed to red C) Blue to Colorless		B) First changed to red and then to blue D) Remain blue colour in both the solutions		
56)	, -		reaction is : B) Fe + CuSO₄ → FeSO₄ + Cu D) CaO + CO₂ → CaCO₃		
57)	Calcium hydroxyapatite A) Acidic	is present in tooth ena B) Basic	amel. Its nature is : C) Amphoteric	D) Neutral	
58)	The metallic oxide which A) Na ₂ O	n do not form alkali : B) CaO	C) K ₂ O	D) CuO	
59)	Element X loses one ele	ctron, element Y gains	one electron and forr	ms the compound XY. Which o	
	the following is the property of the compound A) Brittle in nature C) Soluble in water		? B) Possess low melting point. D) Bad conductor of electricity in its solid state		
60)	his is due to the formation of a				
	coating of :				
	A) Silver oxide	B) Silver carbonate	C) Silver sulphide	D) Silver sulphate	
61)	The bond that Carbon forms with most other elements are very strong because : A) Carbon forms ionic bond with other elements B) Small size of carbon atom C) The larger the size of the carbon D) Carbon forms covalent bond with other elements				
62)	The functional group in (A) Aldehyde	Propanol is : B) Alcohol	C) Ketone	D) Carboxylic Acid	
63) Molecular formula of a compound is C ₆ H ₁₂ . The formula of the next member of this ho				member of this homologous	
	series is :				
	A) C ₄ H ₁₀	B) C ₆ H ₁₄	C) C ₇ H ₁₄	D) C ₆ H ₆	
64)	The process of unsaturated hydrocarbons add hydrogen in the presence of catalyst such as				
	palladium or nickel to gi A) Combustion			D) Addition reaction	
65)	Identify the incorrect statement about the trends when going from left to right across the periods				
	of Periodic Table : A) The elements becom C) The atoms lose their		•	f valence electrons increases. ecome more acidic	
66)	Mendeleev treated the fo	ormulae of these comp	pounds formed by an	element as one of the basic	
	properties of an elemen A) Hydrides and Oxides C) Hydrides and Sulpha		: B) Oxides and Chlori D) Sulphides and Nit		
67)	The body temperature o A) Frogs & Birds	f these animals depen B) Birds & Rabbits			
68)	Identify the two forces of the aerial parts, acting of A) A- Transpiration pull, B) A-Root Pressure, B-T C) A-Suction, B-Root Pre D) A-Evaporation, B-Tra	on the points A and B : B-Active Transport ranspiration pull essure			

69)	· · · · · · · · · · · · · · · · · · ·	ects the normal functioning of the kidneys as follows: * B) Reduces the Glomerular filtration D) Increases the tubular secretion				
70)	In a synapse, chemical signal is transmitted from : A) Dendrite of one neuron to Axonal end of other neuron B) Axon to Cell body of same neuron C) Cell body to Axonal end of same neuron D) Axonal end of one neuron to Dendrite of another neuron					
71)	 An example for phototrophic movement is : A) Ripening of fruit B) Growth of pollen tube C) 	Growth of stem D) Growth of root				
72)	Choose the incorrect statement about Thyroxin hormone : A) Deficiency of Thyroxin causes anaemia B) Thyroxine helps in growth C) Iodine is required to synthesise thyroxin D) Thyroid gland secretes thyroxine hormone					
73)	3) The site of embryo implantation in female reproductive s A) Ovary B) Cervix C) Uterus	•				
74)	 The INCORRECT statement regarding unisexual flowers is: A) Flowers possessing only stamens cannot produce fruits B) They possess either stamen or pistil C) They exhibit cross pollination D) They possess both stamen and pistil 					
75)	A tall pea plant with round seeds (TTRR) is crossbred with another dwarf pea plant having wrinkled					
	seeds (ttrr). Among the offspring obtained in F2 generation, plants with which traits were found to					
	be minimum in number ? A) Tall plants with round seeds C) Dwarf plants with wrinkled seeds D) Dwarf plants with round seeds					
76)	 What happens if any change occurs in the reproductive tissues of an organism? A) It will have no effect B) The changes will be inherited C) The changes will be restricted to that generation only D) The organism will not be able to survive 					
77)	7) The tool which is NOT used for tracing evolutionary relati A) Excavating B) Time dating C) Studyir	ionships is : ng fossils D) Historical details				
78)	8) The correct statement with respect to biodegradable sub	stances among the following is ; These				
	substances: A) remain inert in the environment for a long time. B) undergo recycling naturally in the environment. C) harm various organisms in the ecosystem. D) increase the density of harmful chemicals in different tropic levels.					
79)	9) Instead of throwing away used envelops, reverse it and u A) Refuse B) Reduce C) Reuse	sing it again : D) Repurpose				
80)	, , , , , , , , , , , , , , , , , , , ,	allow up huge amounts of public money as of biological diversity				
	o attend the quiz click this link : ttps://forms.gle/ofqEC1SLmd5Jzzuz5					

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