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) A light ray enters a glass slab at exactly 90°. Its angle of refraction is :

	• • •		•					
	A) 90°	B) 60°	C) 30°	D) 0°				
42)	A beam of light is in side A and emerges face B of the box as following could be i	cident through the holes out of the holes on the s shown in figure. Which nside the box?	s on other <u>10</u> of the <u>8</u> <u>6</u>	A B 123	4 5			
	A) Concave lens B)	Rectangular glass slab	<u>5</u> 4 3		7			
	C) Prism D)	Convex lens	2		9			
43) For a spherical lens, the relation between v, u, and f is :								
	A) $F = \frac{1}{u} + v$	$B)\frac{1}{f} = \frac{1}{v} - \frac{1}{u}$	$\mathbb{C})\frac{1}{f} = \frac{1}{v} + \frac{1}{u}$	$D)^{\underline{1}}_{\underline{f}} = u + v$				
44) If the power of a lens is 2.5D, what is its focal length?								
	A) 25cm	B) 2.5cm	C) 25m	D) 0.4m				
45)	5) The relation between potential difference (V) and current (I) is:							
	A) V α I²	B) VαI	C) V² a I	D) V α 1/I				
46) Which of the following, resistance does not depend on?								
	A) Length of conduc	tor B) Area of cross-se	ction C) Te	mperature D) Density				
47)) A car headlight bulb working on a 12 V car battery draws a current of 0.5 A. The resistance of the light bulb is :							
	Α) 0.5 Ω	Β) 6 Ω	C) 24 Ω	D) 12.5Ω				
48)	8) An electric heater is rated at 2 Kw. Electrical energy costs Rs 4 per k Wh. What is the cost of using the heater for 3 hours?							
	A) Rs. 12	B) Rs. 24	C) Rs.36	D) Rs. 48				
49)	49) The heat produced by passing an electric current through a fixed resistor is proportional to th square of :							
	A) Magnitude of resistance of the resistor		B) Temperati	B) Temperature of the resistor				
	C) Magnitude of current		D) Time for v	D) Time for which current is passed				
50)	rent :							
	A) remains stationar	ry B) deflects C) d	oes not deflect	D) becomes non-magnetic				
51) An electric generator with commutator gives :								
	A) Alternate Current	B) Direct Current	C) Mechanica	al energy D) Light energy				
52)	In domestic wiring u	isually the colour of insu	ulation material	on the live wire is :				
	A) green	B) black	C) red	D) yellow				

53)	An electric power statio	n which uses natural e	energy source directly	to turn turbines :		
	A) Thermal Power Plant		B) Hydroelectric Power Plant			
	C) Nuclear Power Plant		D) Solar Power Plant			
54)	The gas produced by the	e decomposition of co	ow dung, vegetables et	c., in anaerobic conditions is :		
	A) CNG	B) LPG	C) Gober gas	D) Water gas		
55)	The process used to cor	nvert metal sulphide o	res into their oxides is	:		
	A) Roasting	B) Reduction	C) Electrolysis	D) Calcination		
56)	Which of the following h	ydrocarbons undergo	addition reactions ?			
	A) CH ₄	B) C ₂ H ₄	C) C ₃ H ₈	D) C ₄ H ₁₀		
57)	The atomic number of a bond formed between t	n element 'X' is 12 and hese two elements :	d the atomic number o	of 'Y' is 17. Then the type of		
	A) Hydrogen Bond	B) Covalent Bond	C) Ionic Bond	D) Metallic Bond		
58)	When 5 ml of acetic acid	d is added dropwise to	5 ml of water, we obs	serve that :		
	A) formation of a separa	te layer of acid over wa	ater B) formation of a	separate layer of water on acid		
	C) formation of a clear h	omogenous solution	D) formation of a	pink coloured solution		
59)	The functional group pre	esent in the carbon co	mpound CH ₃ CH ₂ CH ₂ C	HO :		
	A) Aldehyde	B) Alcohol	C) Ketone	D) Carboxylic Acid		
60)	Which of the given elem to the same period?	ents A, B, C and D witl	n atomic number 2, 3,	10 and 12 respectively belong		
	A) A, B	B) B, C	C) B, C, D	D) C, D		
61)	Identify the correct state	ement with respect to	carbon compounds :			
	A) dissolve in water					
	B) good conductors of e	lectricity				
	C) have high melting and boiling points					
	D) the forces of attraction	on between these mole	cules are not very stror	ng		
62)	In modern periodic table	e as we move from lef	t to right across a peri	od, the valency of elements :		
	A) decreases B) doe	es not change C) incl	reases D) first increa	ses and then decreases		
63)	With the help of the give Aluminium oxide ?	en chemical equations	, what conclusion you	take about the nature of		
	(:	i) Al ₂ O ₃ + 2 NaOH ■	\rightarrow 2 NaAlO ₂ + 1	H ₂ O		
	(ii) $Al_2O_3 + 6 HCl$	\Rightarrow 2 AlCl ₃ + 3	H ₂ O		
	A) Acidic oxide	B) Basic oxide	C) Amphoteric oxide	D) Neutral oxide		
64)	The compound formed	when excess of CO ₂ ga	as is passed through I	ime water :		
	A) CaCO₃	B) CaCO ₃ + H ₂ O	C) $Ca(OH)_2 + CO_2$	D) Ca(HCO ₃) ₂		
65)	Compound that does no	t form H⁺ ions when a	dded to water :			
	A) HCI	B) H ₂ SO ₄	C) CH₃OH	D) CH₃COOH		
66)	The compound with the	molecular formula C6	H₀ is:			
	A) Hexane	B) Cyclo hexane	C) Iso hexane	D) Benzene		

79) 80)	A) Recycle The following communit A) Agarwal	B) Reduce y in Rajasthan has a ro B) Jaiswal	C) Reuse eligious tenet of conse C) Bishnoi	D) Repurpose ervation of forest and wildlife: D) Jain				
79) 80)	A) Recycle The following communit	B) Reduce y in Rajasthan has a re	C) Reuse eligious tenet of conse	D) Repurpose ervation of forest and wildlife:				
79)	A) Recycle	B) Reduce	C) Reuse	D) Repurpose				
79)	Using the plastic Jam bo		otoning timigo .					
	79) Using the plastic Jam bottle in the kitchen for storing things :							
	A) Chlorine	B) Fluorine	C) Carbon	D) Hydrogen				
78) This component in CFC causes most damage to the ozone layer :								
	C) potato & runners of grass		D) wing of a bat & wing of a bird					
	A) our arm & a dog's fore-leg		B) our teeth & an elephant's tusks					
77) Analogous organs are :								
	A) Colour of skin	B) Size of body	C) Colour of eyes	D) Texture of hair				
76)	Acquired character amo	ng these :						
75)	 '5) If a round yellow seeded pea plant (RrYY) is crossed with wrinkled green seeded pea plant (rryy). The seeds produced in F1 generation are : A) Half of the seeds are round yellow & half of them are wrinkled green B) Half of the seeds are round yellow & half of them are wrinkled yellow C) All seeds are wrinkled and green D) All seeds are round and yellow 							
74)	The part of the seed that A) Cotyledon	t grows and develops B) Plumule	into shoot on germina C) Radicle	tion : D) Seed Coat				
73)	The correct sequence of organs in the male reproductive system for transport of sperms is :A) testis> vas deferens>urethraB) testis> ureter> urethraC) testis> urethra> ureterD) testis> vas deferens> ureter							
72)	The part of the reproduc A) Ovaries	tive system of Human B) Uterus	s where fertilization o C) Vagina	ccurs : D) Oviduct (fallopian tube)				
71)	The structure that contro A) Medulla	ols reflex actions is: B) Cerebrum	C) Hypothalamus	D) Spinal Cord				
70)	Choose the incorrect statement about insulin: A) It is produced from pancreas C) Iodine is required for its synthesis		B) It regulates blood sugar level D) Insufficient secretion of insulin will cause diabetes					
69)	The main function of abs A) increase the length of C) inhibit growth	scisic acid in plants is cells	s is to : B) promote cell division D) promote growth of stem					
	The blood goes only onc A) Frog, Lizard	e through the heart in B) Whale, Chameleon	these during one cycl C) Labeo, Salamande	e of passage through the body: r D) Shark, Hippocampus				
68)	A) effect of root pressure	e B) Transpiration	C) Translocation	D) Opening of Stomatal Pore				

https://forms.gle/RVarut98QBc3D2ds7



KTS CKG