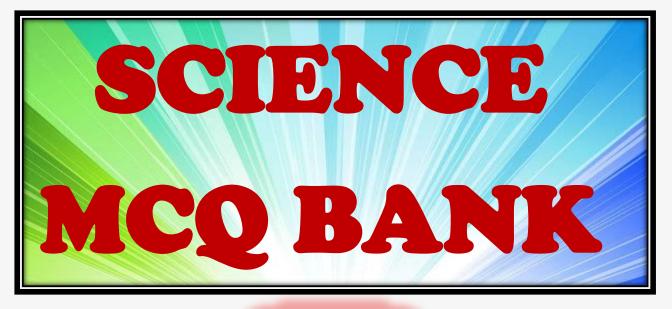


DIRECTORATE OF MINORITIES

MINORITY WELFARE DEPARTMENT

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1. ACIDS, BASES AND SALTS

1. A solution turns red litmus to blue; its PH is likely to be, b) 4 c) 5 d) 10 a) 1 ANS: d) 10 2. The solution reacts with crushed egg shells to give a gas that turns lime water milky. The Solution contains, a) NaCl d) KCl b) HCl c) LiCl Ans: b) Hcl 3. 10 ml of a solution of NaOH is found to be completely neutralised by 8 ml of HCl. If wetake 20ml of NaOH, the amount of Hcl solution required to neutralise it will be, a) 10 ml b) 20 ml c) 16 ml d) 30 ml Ans: C) 16ml 4. Which of the following is used for treating indigestion? a) Antibiotic c) Antacid d) Antiseptic. b) Analgesic Ans: c) Antacid. 5. Sodium hydroxide turns phenolphthalein indicator to which colour? a) Pink b) blue c) Red d) orange ans: a) Pink 6. Methyl orange is, a) Pink (red) in acidic medium, yellow in basic medium. b) Yellow in acidic medium, pink in basic medium. c) Colourless in acidic medium, pink in basic medium. d) Pink in acidic medium, colourless in basic medium. Ans: a) pink in acidic medium, yellow in basic medium. 7. Which of the following is an olfactory indicator? a) Red cabbage b) Litmus c) Turmeric d) Clove.

Ans: d) clove			
8. Sour milk is a natura	I source of which acid?		
a) Citric acid	b) Lactic acid	c) acetic acio	d d) oxalic acid
Ans: b) Lactic acid			
9. Alkalis are,			
a) Acids, which	are soluble in water.	b) Acids, wh	ich are insoluble in water.
c) Bases, which	are insoluble in water.	d) Bases, wh	ich are soluble in water.
Ans: d) bases which a	are soluble in water.		
a) Hydrogen	b) Carbon di oxide	c) Water	d) All of these
Ans: b) carbon di oxide			
11. A strong acid is,			
a) Completely g	ets ionised in water.	b) Partially g	ets ionised in water.
c) Do not get io	nised in water.	d) All of thes	se
Ans: a) completely gets	ionised in water.		
12. Which of the follow	ving will turn red litmus blu	e?	
a) Vinegar k) Lemon juice c) Sof	t drinks	d) Baking soda solution.
Ans: d) Baking soda	solution.		
a) Carbon mond	oxide is formed.	b) sodium ca	arbonate is formed.
c) Carbon di ox	ide does not react with sod	lium hydroxide	e. d) None of these
Ans: c) sodium carb	onate is formed.		
a) Zinc chloride k) Zinc sulphate c) Zin	c carbonate	d) Zinc hydroxide
Ans: a) Zinc chloride			
15. " Tap water conduc	cts electricity whereas disti	lled water doe	s not." The reason for this is,
a) Tap water co	ntains ions which conduct o	electricity.	

b) Tap water contains electrons which conduct electricity.

c) Tap water contains protons which conduct electricity.

d) Tap water contains neutrons which conducts electricity.

Ans: a) Tap water contains ions which conduct electricity.

16. Arrange the following in the increasing order of their PH values.

b) blood<lemon juice<NA0H a) NAOH solution<blood<lemon juice c) Lemon juice<blood<NA0H d) blood<NAOH<lemon juice Ans: c) lemon juice<blood<NAOH b) Neutralisation reaction a) Addition reaction d) Oxidation reaction c) Substitution reaction Ans: b) Neutralisation reaction. 18. Which of the following acid having highest hydrogen ion concentration is one with, a) PH=2.5 b) PH= 1.8 c) PH= 7 d) PH=10 Ans: PH= 1.8 19. Dissolution of acid in water is, a) Endosmosis b) Isothermic c) Exothermic d) Endothermic Ans: Exothermic 20. What is pH a) The positive logarithm of hydroxide ion concentration. b) The positive logarithm of hydrogen ion concentration. c) The negative logarithm of hydroxide ion concentration. d) The negative logarithm of hydrogen ion concentration.

Ans: d) The negative logarithm of hydrogen ion concentration.

21. The PH of three solutions, X, Y and Z is 6,4 &8 respectively. Which of the following is the correct order of acidic strength?

a) X>Y>Z b) Z>Y>X

d) Z>X>Y

Ans: c) Y>X>Z

22. Increase in the OH- ion concentration leads to,

a) An increase in the PH of the solution.

- b) A decrease in the PH of the solution.
- c) Does not alter the PH of the solution.
- d) Decreases the basic strength of the solution.

Ans: a) An increase in the PH of the solution.

			0/1				
a) below 7	b) below 6	c) below 5.6	d) above 7				
Ans: c) below 5.6							
24. Farmers neutralise the effect of acidity of the soil by adding,							
a) Gypsum b) Slaked lime	c) Caustic soda	d) baking soda.				
Ans: b) Slaked lime.		\mathcal{O}					
25. Tooth enamel is ma	de up of,						
a) Calcium carbonat	e b) Calcium phos	ohate c) Calcium oxide	d) Calcium chloride				
Ans: b) Calcium phosph	ate						
26. Nettle sting is a natu	iral source of which	n acid?					
a) Methanoic ac	b) Lactic acid	c) Citric acid	d) Tartaric acid.				
Ans: a) Methanoic a	acid						
27. Tomato is a natural	source of						
a) Acetic acid	b) Citric acid	c) Lactic acid	d) Oxalic acid				
ans: d) Oxalic acid							
i) Temperature incr	eases						
ii) Temperature deo	creases						
iii) Remains same							

iv) Salt formation tal	kes place					
a) (i) & (iv)	b) (i) &(iii)	c) (ii) &(iii)	d) (ii) &(iv)			
Ans: a) i &iv						
a) Zinc hydroxide and sodium b) Sodium Zincate and hydrogen gas						
c) Sodium Zinc o	xide and hydrogen gas	d) Sodium	zincate and water			
Ans: b) Sodium zincate a	nd hydrogen gas					
30. Sodium carbonate is	a basic salt because it i	s a salt of,				
a) Strong acid and	d strong base.	b) Weak acid and	weak base.			
c) Strong acid and	d weak base	d) weak acid and	strong base.			
Ans: d) Weak acid and	l strong base.					
31. What is the PH range	of our body?					
a) 7.0-7.8	b) 7.2-8.0	c) 7.0-8.4	d) 7.2-8.4			
Ans: a) 7.0-7.8						
32. Sodium hydroxide tu	rns phenolphthalein so	lution into				
a) Pink b) yellow	c) colourless	d) orange				
Ans: a) pink	25					
33. Acid present in the a	ople is,					
a) Oxalic acid	b) Malic acid	c) Acetic acid	d) Formic acid			
Ans: b) malic acid						
1/hr						
a) Nitrogen	b) Oxygen	c) Hydrogen	d) Argon			
Ans: c) Hydrogen						
35. Range of PH scale is						
a) 7 to 10	b) 0 to 10	c) 0 to 14	d) 7 to 14			
Ans: c) 0 to 14						

36. The PH of commonly used Toothpaste is

	a) Acidic	b) Basic	c) Neutral	d) None of these	
Ans:	b) basic				
37. V	inegar is used	in pickling as it,	,		
	a) Is an acio	ł	b) Pr	revents growth of m	icrobes
	c) Prevents	drying of pickle	s d) In	creases taste	
Ans:	b) Prevents gro	owth of microb	es		C
38. T	he PH of neut	ral solution is			
	a) 14	b) 7	c) 10	d)12	
Ans:	b) 7				0/1
39. S	odium chloride	e is			
	a) Acidic sal	t b) Ba	isic salt	c) Neutral salt	d) None of these
An	s: c) Neutral sa	alt			
40. A	n ant's sting ca	an be treated w	rith,		
	a) Methano	ic acid b) Fo	ormic acid	c) Baking soda	d) caustic soda
А	ns: c) baking s	oda	\mathcal{X}		
41. A	teacher gave	two test tubes	to the students	. One containing wa	ter and the other
Сс	ontaining sodi	um hydroxide. S	She asked them	to identify the test	tube containing
SC	odium hydroxi	de solution. Wh	ich one of the	following can be use	d for identification?
a)	Blue litmus	b) Red litmu	s c) sodium ca	rbonate solution	d) dilute HCL solution
Ans:	b) R <mark>ed</mark> litmus				
42. T	he acid presen	it in the vinegar	is,		
	a) Citric acio	b) Ta	rtaric acid	c) Ascorbic acid	d) Acetic acid
Ans:	d) acetic acid				
43. Li	itmus solution	is a natural dye	e. It is obtained	from	
	a) Lichen	b) methyl or	ange c) fur	ngus d) microor	rganisms
Ans:	a) lichen				
44. W	Vhich acid is pr	resent in orange	e?		

	a) Lactic acid	b) Citric acid	c) Methanoic acid	d) oxalic acid
Ans: b	o) citric acid			
45. Th	ne correct way of ma	king a solution of acid	n water is to,	
	a) Add water to ac	id	b) Add acid to wate	er
	c) Mix acid and wa	ter simultaneously	d) Add water to aci	d in a shallow container
Ans: b) Add acid to water			C
****	<***************	* * * * * * * * * * * * * * * * * * * *	*****	*****
2	. META	ALS AND		METALS
	e ability of metals to A) Ductility er :(A)	be drawn in to wires is B)Malleability		onductivity
		or properties the non r	netal used in compute	ers. TV etc
		Silicon C)		ullerene
Answ	er :(B)			
3 . Wh	ich of the following	metal exist in their nati	ve form in nature?	
	A) Cu B)A	Au C) Zn	D) Fe	
Answ	er :(B)			
4. Wh	ich of the following	metals are refined by e	lectrolysis?	
	A) Al B) N	la C) C	u D) K	
	er :(C)			
5. The		oft in nature and can be en. It reacts vigorously		s very reactive to air and ne element from the
	A) Mg B) f	Na C) P	D) Ca	
Answ	er :(B)			
6. Allo	oys are the homogen	eous mixture of metals	s with a non metal. Wh	nich among the following
		metals as one of its co		
	A) Brass	B) Bronze	C) Amalgam	D) Steel
	er :(D)			
7. Ger	nerally non-metals a conductor of elect	re not conductors of el ricity?	ectricity. Which of the	tollowing is a good
	A) Diamond	B) Graphite	C) Fullerene	D) Sulphur
Answ	er:(B)			
8. Wh	ich of the following	is iron ore		
	A)Cinnabar	B)Calamine	C) Hematite	D) Rock salt
Answ	er :(C)			

	В)	Mn	C) Al	D) Hg	
Answer:(C)					
10. In stainless steel	alloy, iron m	netal is mixed	with		
A)Cu and Cr	B) (Cr and Ni	C) Cr ar	id Sn	D) Cu and Ni
Answer:(B)					
11. Rock salt is an or	e of one of t	he following i	metal. This m	etal is	
A) Mn	B) Na	C) Cu	D) Cu		
Answer:(B)					C
12. Which one of the	e following p	air will give D	isplacement I	Reaction?	
A) AgNo₃ solu	ution and Co	pper metal	•	4 solution and	
C) CuSo₄solut	tion and silve	er metal	D) NaCl	solution and (Copper metal
Answer:(A)					\sim
13. Which of the foll	owing non-	metal is lustro	ous?		
A) Sulphu	ur B) (Oxygen C)	Nitrogen	D) Iodine	
Answer :(D)					
14. Examples of amp	hoteric oxid	e is			
A) Na ₂ O	B)	K ₂ O C) Al ₂ O3	D) MgO	
Answer :(C)					
15. The atomic numb	per of eleme	nt 'X' is 12 wh	nich inert gas	is nearest to '〉	K ′
A) He	B) Ar	C) Ne	D)	Kr	
Answer :(C)					
16. The process in w		ate ore is hea	ted strongly i	n absence of a	ir to convert it in to
فالماملين المتلام ممر	s called	\sim			
metal oxide i					
A) Roasting	B)	Reduction	C) Calci	nation	D) Melting
A) Roasting Answer :(C)		V.			. 2
A) Roasting Answer :(C) 17. Oxides of modera	ately reactiv	e metals like i	Zinc, Iron, Nic	kel, Tin,Coppe	D) Melting r etc reduced by using
A) Roasting Answer :(C) 17. Oxides of modera A) Sodium as	ately reactiv reducing ag	e metals like a ent B	Z <mark>inc, Iron, Nic</mark>) Carbon as re	<mark>kel, Tin,Coppe</mark> ducing agent	r etc reduced by using
A) Roasting Answer :(C) 17. Oxides of moder A) Sodium as C) Aluminum	ately reactiv reducing ag	e metals like a ent B	Z <mark>inc, Iron, Nic</mark>) Carbon as re	kel, Tin,Coppe	r etc reduced by using
A) Roasting Answer :(C) 17. Oxides of moder A) Sodium as C) Aluminum Answer :(B)	ately reactiv reducing ag as reducing	e metals like z ent B agent D	<mark>Zinc, Iron, Nic</mark>) Carbon as re) Calcium as r	kel, Tin,Coppe ducing agent educing agent	r etc reduced by using
A) Roasting Answer :(C) 17. Oxides of modera A) Sodium as C) Aluminum Answer :(B) 18. Galvanization is r	ately reactiv reducing ag as reducing method of p	e metals like Z ent B agent D rotecting iron	Zinc, Iron, Nic) Carbon as re) Calcium as r from rusting	kel, Tin,Coppe educing agent educing agent by coating a tl	r etc reduced by using
A) Roasting Answer :(C) 17. Oxides of modera A) Sodium as C) Aluminum Answer :(B) 18. Galvanization is r A) Gallium	ately reactiv reducing ag as reducing method of p	e metals like Z ent B agent D rotecting iron	<mark>Zinc, Iron, Nic</mark>) Carbon as re) Calcium as r	kel, Tin,Coppe ducing agent educing agent	r etc reduced by using
A) Roasting Answer :(C) 17. Oxides of modera A) Sodium as C) Aluminum Answer :(B) 18. Galvanization is r A) Gallium Answer :(C)	ately reactiv reducing ag as reducing method of p B) Alumir	e metals like Z ent B agent D rotecting iron nium C)	Zinc, Iron, Nic) Carbon as re) Calcium as r from rusting Zinc D)	kel, Tin,Coppe educing agent educing agent by coating a tl	r etc reduced by using
A) Roasting Answer :(C) 17. Oxides of modera A) Sodium as C) Aluminum Answer :(B) 18. Galvanization is r A) Gallium Answer :(C) 19. In the extraction	ately reactiv reducing ag as reducing method of p B) Alumir of Copper, t	e metals like Z ent B agent D rotecting iron hium C) the flux used i	Zinc, Iron, Nic) Carbon as re) Calcium as r from rusting Zinc D) s	kel, Tin,Coppe educing agent educing agent by coating a th Silver	r etc reduced by using
A) Roasting Answer :(C) 17. Oxides of modera A) Sodium as C) Aluminum Answer :(B) 18. Galvanization is r A) Gallium Answer :(C) 19. In the extraction A) CaO	ately reactiv reducing ag as reducing method of p B) Alumir	e metals like Z ent B agent D rotecting iron hium C) the flux used i	Zinc, Iron, Nic) Carbon as re) Calcium as r from rusting Zinc D) s	kel, Tin,Coppe educing agent educing agent by coating a tl	r etc reduced by using
A) Roasting Answer :(C) 17. Oxides of moders A) Sodium as C) Aluminum Answer :(B) 18. Galvanization is r A) Gallium Answer :(C) 19. In the extraction A) CaO Answer :(B)	ately reactiv reducing ag as reducing method of p B) Alumir of Copper, t B) SiO ₂	e metals like 2 ent B agent D rotecting iron hium C) the flux used i C) F	Zinc, Iron, Nic) Carbon as re) Calcium as r from rusting Zinc D) s eO D)	kel, Tin,Coppe educing agent educing agent by coating a tl Silver FeSiO ₂	r etc reduced by using
A) Roasting Answer :(C) 17. Oxides of modera A) Sodium as C) Aluminum Answer :(B) 18. Galvanization is r A) Gallium Answer :(C) 19. In the extraction A) CaO Answer :(B) 20. In electrolytic ref	ately reactiv reducing ag as reducing method of p B) Alumir of Copper, t B) SiO ₂ fining of Cop	e metals like 2 ent B agent D rotecting iron nium C) the flux used i C) F	Zinc, Iron, Nic) Carbon as re) Calcium as r from rusting Zinc D) s eO D) rolyte used is	kel, Tin,Coppe educing agent educing agent by coating a th Silver FeSiO ₂	r etc reduced by using nin layer of
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A) Roasting Answer :(C) 17. Oxides of modera A) Sodium as C) Aluminum Answer :(B) 18. Galvanization is r A) Gallium Answer :(C) 19. In the extraction A) CaO Answer :(B) 20. In electrolytic ref A) CuO Answer:(C)	ately reactiv reducing ag as reducing method of p B) Alumir of Copper, t B) SiO ₂ fining of Cop B) Cu(0	e metals like 2 ent B agent D rotecting iron nium C) the flux used i C) F per, the elect DH) ₂ C)	Zinc, Iron, Nic) Carbon as re) Calcium as r from rusting Zinc D) s eO D) rolyte used is Acidified Cu	kel, Tin,Coppe educing agent educing agent by coating a th Silver FeSiO ₂ ISO ₄ (aq) D)	r etc reduced by using hin layer of CuSO₄(s)
A) Roasting Answer :(C) 17. Oxides of modera A) Sodium as C) Aluminum Answer :(B) 18. Galvanization is r A) Gallium Answer :(C) 19. In the extraction A) CaO Answer :(B) 20. In electrolytic ref A) CuO Answer:(C) 21.Which one of the	ately reactiv reducing ag as reducing method of p B) Alumir of Copper, t B) SiO ₂ fining of Cop B) Cu(o	e metals like 2 ent B agent D rotecting iron nium C) the flux used i C) F oper, the elect DH) ₂ C)	Zinc, Iron, Nic) Carbon as re) Calcium as r from rusting Zinc D) s eO D) rolyte used is Acidified Cu	kel, Tin,Coppe educing agent educing agent by coating a th Silver FeSiO ₂ ISO ₄ (aq) D)	r etc reduced by using hin layer of CuSO₄(s)
A) Roasting Answer :(C) 17. Oxides of modera A) Sodium as C) Aluminum Answer :(B) 18. Galvanization is r A) Gallium Answer :(C) 19. In the extraction A) CaO Answer :(B) 20. In electrolytic ref	ately reactiv reducing ag as reducing method of p B) Alumir of Copper, t B) SiO ₂ fining of Cop B) Cu(0	e metals like 2 ent B agent D rotecting iron nium C) the flux used i C) F per, the elect DH) ₂ C)	Zinc, Iron, Nic) Carbon as re) Calcium as r from rusting Zinc D) s eO D) rolyte used is Acidified Cu	kel, Tin,Coppe educing agent educing agent by coating a th Silver FeSiO ₂ ISO ₄ (aq) D)	r etc reduced by using hin layer of CuSO₄(s)

22. Generally metals a room temperat		e. Which one of t	he following	metals is in	liquid state at
	B) Fe C)	Cr D)	Hg.		
Answer :(D)	, ,	,	0		
23. Which of the follow	ving can underg	o a chemical read	ction?		
A) MgSO ₄ +Fe	B) ZnSO ₄	+Fe C) MgS(O₄+Pb D)	CuSO ₄ +Fe	
Answer:(D)					
24. An element reacts	with oxygen to	give compound w	vith high melt	ing point. Th	his compound
is also soluble i	n water. This ele	ement likely to be	2		C
A) Calcium	B) Carbo	n C)	Silicon	D) iro	n
Answer:(A)					
25. Food cans are coat	ed with tin and	not with Zinc bec	ause		
A) Zinc is costli		-	a higher mel		
,	reactive than ti	n D) Zinc is ı	eactive than	tin	
Answer:(C)					
26. Calcination is					
	e ore in a limite	d supply of air			access of air
C) Cooling th	e ore		D) none o	of these	
Answer :(A)			\sim		
C) It does not D) It reacts viol calcium Answer :(D) 28. Which of the follow A) Electrical con Answer:(C) 29. The non-metal that A) Mercury	ently with water ving property is induction B)	r, it reacts violen rBubbles of hyd generally not sho Sonorous in natu m temperature	rogen gas for own by the m	med stick to	o the surface of D) Ductility
Answer :(B) A) Roasting Answer:(A) 31. In electrolytic refin	B) Smelting ing, the cathod	C) Calcinatior	n D) Refinir	ng	
A) Impure meta	al B) Pure r	netal C) A	Alloy	D) metallic	salt
Answer:(B)					
32. Silver articles beco	-				formation of
A) Ag₃N	B) Ag ₂ S	C) AgO	D) Ag3N	N and Ag ₂ S	
Answer:(B)					

A) CuSO4	B) CuCo₃	C) Cu(NO ₃) ₂	D) CuO	
nswer:(B)				
4. An alloy is				
A) An elemer	nt	В	A compound	
C) A homoge	eneous mixture	D) heterogeneous	mixture
Answer:(C)				
5. Which among th	e given stateme	nt Is incorrect for	magnesium met	tal.
A) It burns ir	n oxygen with da	azzling flame		
-		-		lves hydrogen gas
C) It reacts v	with hot water t	o form magnesiu	n oxide and evol	ves hydrogen gas
D) It reacts	with hot water t	o form magnesiu	m oxide and evo	lves hydrogen gas
Answer:(B)				
				ytic refining of copper?
A) Sodium	B) Aluı	minium C	i) Gold D)	Iron
Answer:(D)				
37. The second most				
A) Oxygen	B) Alui	minium	C) Silicon	D) Iron
Answer:(D)				the this succession of sea
				in this evolution of gas
· ·	reacts with dil H and Copper read			u reacts with dil HCl
Answer:(A)		t with the HCI.	D) Only CC	opper reacts with water
• •	an iron nail in c	onner sulnhate s	olution. He observe	rved the reddish brown
	e iron nail whic			
A) Soft and c) hard and fading	Ţ
C) Smooth a) Rough and grar	
Answer:(D)			,	
10. An electrolytic ce	ell consists of			
a) Positively charge				
b) Negatively charge				
c) Positively charge				
d) Negatively charge				
A) (a) and (b				
B) (c) and (d				
C) (a) and (c))			
D) (b) and (d)			

3. CARBON AND ITS COMPOUNDS

1. The property of self as?	f – linkage among ider	ntical atoms to	form long chai	n compounds is known
a) Catenation.	b) Isomerisati	on's c) Su	perposition.	d) Halogenations.
Ans:a) Catenation.				
2. Which of the follow	ving belongs to homo	logous series o	f alkynes?	
a) C ₃ H ₈	b) C₅H ₈	c)C ₃ H ₆	d) C ₆ H	6.
Ans: b) C₅H ₈				
3. The hydrocarbon th	nat undergoes addition	n reaction amo	ng the follow is	
a) C ₂ H ₆	b) C ₃ H ₈	c) CH ₄	d) C₃H	6
ans: d) C ₃ H ₆				
4. An example for satu	urated hydrocarbon is		7.	
a) C ₃ H ₆	b) C ₅ H ₁₂	c) C ₂ H	2	d) C ₂ H ₄
ans: b) C_5H_{12}		V.		
5. The functional grou	ips present in propand	ol and propana	l respectively a	re
a) - OH and - CHO.	b)- OH and - COOI	H. c)- CHO ai	nd - COOH.	d)-CHO and - CO.
Ans: a) - OH and - C	НО.			
6. Identify the correct	electron dot structur	e of nitrogen m	olecule in the	following.
(a): <u>N</u> :N:	(b) : <u>N::N</u> :	(c): <u>N</u> :N:	(d) :N::N:	
Ans: (d) :N::N:				
7. The name and the r C_nH_{2n} and contain	molecular formula of t ning 3 Carbon atoms	he saturated h	ydrocarbon ha	ving general formula
a) Propane Ca	₃ H ₈	b) Cyclopropa	ne C_3H_6	
c) propyne C₃⊦	14	d) propeneC ₃ l	H ₆	
Ans: b) Cyclopropane	C ₃ H ₆			

a) They have the same crystal structure.c) They have the same electrical conductivity.			b) They have the samd) They can undergo the	e degree of hardness e same chemical reactions.
Ans: d) They can une	dergo the same chemi	ical react	ions.	
9. The number of co	valent bonds in C_5H_{12}	is		
a) 16.	b) 18.		c) 12.	d) 15.
Ans: a) 16.				
	l oil on treating with h ats, this is an example		in the presence of pa	alladium or nickel
a) Addition rea	ction.		b) Substitu	tion reaction.
c) Displacemen	t reaction.		d) Oxidatior	n reaction.
Ans: a) Addition rea	ction.			
11. Which of the giv	en has double bond?		$\mathcal{A}_{\mathcal{A}}$	
a) Hydrogen mo c) Nitrogen mo			rgen molecule. ethane molecule	
ans: b) Oxygen mole	ecule.	\mathbf{C}	X i	
12. The Soap molect	ule has a			
a) Hydrophilic H	Head & a hydrophobic	tail.	b) Hydrophobic He	ad & a Hydrophilic tail.
c) Hydrophobic	Head & a hydrophobi	ic tail.	d) Hydrophilic Head	d & a Hydrophilic tail.
Ans: a) Hydrophilic	Head & a hydrophobi	ic tail.		
13. Which of the fol	lowing cannot exhibit	isomeris	m?	
a) C4H10	b) C ₅ H ₁₂	c) C ₂ H ₆	d) Ca	₅ H ₁₄
ans: c) C ₂ H ₆				
14. Two hydrocarbo identify the cor		ne moleo	cular formula C₅H ₁₀ . I	By using this statement
a) 'A' is a cyc	lic compound& 'B' is a	an open o	chain compound bot	h has double bond.

b) 'A' is a cyclic compound with single bond & 'B' is an open chain compound with double bond.

c) 'A' is a cyclic compound with double bond & 'B' is an open chain compound with single bond.

d) 'A' is a cyclic compound & 'B' is an open chain compound both have single bond.

Ans: b) 'A' is a cyclic compound with single bond & 'B' is an open chain compound with double bond.

- a) The food is not cooked completely. **b**) The fuel is not burning completely. c) The fuel is wet. d) The fuel is burning completely. Ans: **b**) The fuel is not burning completely. 16. Which of the following compound on repeated chlorination forms chloroform and carbon tetra chloride? d) C_3H_6 a) C_2H_6 b) C_3H_8 c) CH₄ ans: c) CH₄ 17. Which of the following is a correct name of this compound b) propane c) butyne d) propyne a) propene ans: d) propyne 18. Identify the correct name of the following compound? b) pentanal a) pentanol c) pentanoic acid d) butanal ans: b) pentanal alk. KMnO₄ + heat CH_3 CH_2OH → CH₃COOH acidified K2Cr2O7 Carboxylic acid Alcohol a) Oxidising agent b) Reducing agent c) Catalyst d) dehydrating agent ans: a) Oxidising agent 20. Why soap does not work well with hard water containing Ca⁺² or Mg⁺² ions. Because, a) It react with Ca⁺² or Mg⁺² to form a solution
 - b) It reacts with oily dirt to form a white precipitate.

c) It reacts with Ca ⁺² or Mg ⁺² to form a white	procipitato				
d) It reacts with Ca ⁺² or Mg ⁺² to form a Colloid					
Ans: c) It reacts with Ca ⁺² or Mg ⁺² to form a white	precipitate.				
21. When ethanoic acid is treated with NaHCO ₃ th	e gas evolved is				
(a) H ₂ (b) CO ₂ (c) CH ₄	(d) CO				
Ans: (b) CO ₂					
22. Ethanol on complete oxidation gives					
(a) acetic acid/ethanoic acid	(b) CO ₂ and water				
(c) ethanol	(d) acetone/ethanone				
Ans: (b) CO ₂ and water					
23. Name the functional group present in CH ₃ COC	H ₃ .				
(a) Alcohol (b) Carboxylic acid	(c) Ketone (d) Aldehyde				
Ans: (c) Ketone					
24. Addition reactions are undergone by					
(a) Saturated hydrocarbons (alkanes) (b) Only alkenes					
(c) Only alkynes (d) both alkenes and alkynes					
Ans: (d) Both alkenes and alkynes					
25. A hydrocarbon has four carbon atoms. Give its molecular formula if it is an alkene.					
(a) C_4H_{10} (b) C_4H_8 (C) C_4H_6 (d) C_4H_4					
Ans: (b) C ₄ H ₈					
26. The first member of the alkynes homologous s	eries is				
(a) propyne (b) ethyne	(c) methane (d) ethene				
Ans: (b) ethyne					
a) The food is not cooked completely	b) The fuel is not burning completely				
c) The fuel is wet	d) The fuel is burning completely				

ans: b) The fuel is not burning completely							
28. W	/hich of the following is	s the molecular formul	a of cyclobutane?				
	a) C ₄ H ₁₀	b) C ₄ H ₆	c) C ₄ H ₈	d) C ₄ H ₄			
ans: d	c) C ₄ H ₈						
29. W	/hich of the followings	is the major constitue	nt of the liquefied petr	oleum gas?			
	a) Methane	b) Ethane	c) Propane	d) Butane			
ans: d	d) Butane						
	ils on treating with hyc example of	lrogen in the presence	of palladium or nickel	catalyst form fats. This			
	A. Addition reaction		B. Substitution react	ion			
	C. Displacement read	ction	D. Oxidation reaction				
Ans: /	A. Addition reaction						
31. In which of the given compounds -OH is the functional group?							
	A. Butanone	B. Butanol	C. Butanoic	D. Butanal			
Ans:	Ans: B. Butanol						
32. C	omplete combustion o	f a hydrocarbon gives					
	A. CO+H₂O	B. CO ₂ +H ₂ O	C. CO+H ₂	$D. CO_2+H_2$			
Ans: B. CO ₂ +H ₂ O							
33. W	/hich is not correct for	isomers of a compoun	d?				
	A. They differ in phys	sical properties	B. They differ in chemical properties				
	C. They have same m	nolecular formula	D. They have same structural formula				
Ans:). they have same struc	ctural formula					
34. The name of the compound, $CH_3 - CH_2 - CHO$ is:							
	A. Propanal	B. Propanone	C. Ethanol	D. Ethanal			
Ans:	A. Propanal						
	A. 1	B. 2	C. 3	D. <u>4</u>			

<u>Ans:</u> D. <u>4</u>			
36. Which of the given h	as a triple bond?		
A. Hydrogen mol	ecule	B. Oxygen molecu	lle
C. Nitrogen mole	cule	D. Ammonia mole	ecule
Ans: C. Nitrogen molecu	le		
37. How many single bor	nds are present in n	nethane?	
A. Four	B. Five	C. Six	D. Three
Ans: A. Four			
38. Two neighbors of ho	mologous series dif	fer by	o/
А. –СН В.	-CH₂ CCH₃	DCH4	\mathcal{L}
Ans: BCH₂			9
39. Which one of the giv	en is an unsaturate	d hydrocarbon?	
A. Acetylene	B. Butane	C. Propane	D. Decane
Ans: A. Acetylene			
	saturated hydrocar	bons at room temperature	e in the
(a) absence of su		(b) presence of su	
(c) presence of w		(d) presence of hy	-
Ans: (b) presence of sun		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	U	******	******
4. PERIODI	<u>C CLASSII</u>	FICATION O	F ELEMENTS
1. The number of groups are	and periods in the	modern periodic and tabl	e respectively,
A.7 and 9	B.18 and 7	C.7 and 18	D.9 and 7
Ans: B. 18 and 7			
		(is 2,8,8,1 and the electro formed between these two	-
A.Covalent bond	B.Hydrogen bond	C.Metallic bond	D.Ionic bond
Ans: D.Ionic bond			

3. The atomic num metallic nature am			nd 8 respectively. Elementshaving
A.B and D	B.A and C	C.A and C	D.B and C
Ans: C. A and C			
	dic table, as we mo	ve from left to right al	long the period, the atomic size
A.Increase	25	B.Do	oes not change
C.Decreas	es	D.Fi	irst increases and then decreases
Ans: C. Decreases			
	dic table,as we mov	ve from left to right th	ne metallic property of
A.Increases		B.Do	pes not change
C.Decrease	S	D.Fi	irst increases and then decreases
Ans: C. Decreases			
6. The scientist who	o proposed the mo	dern periodic table	
A.Newland	B.Henry Mo	seley C.Dober	reiner D.Mendeleev
Ans: B.Henry Mose	eley		
7. The number of v	alence electrons pr	esent in nitrogen aton	n
A.5	B.7	C.6	D.8
Ans: A. 5			
		e formula XCl2, which i oup of the periodic tab	
A. Na Ans.B. Mg	B. Mg	C. Al	D. Si
9. The law of octav A.Oxygen	es was found to be B.Calciu	applicable to element m C.Cobalt	
Ans: B. Calcium			
10. According to M the order of	endeleev's Periodi	c law, the elements we	ere arranged in the periodic table in
C.Increasing	g atomic number g atomic masses		asing atomic number asing atomic masses
Ans: C. Increasing a	atomic masses		
			ements to be discovered later.
A. Germani	-	d a place in the period ride C. Oxyge	
	DIRECTORATE	OF MINORITIES-S	SLC-SCIENCE-MCQ 2

Ans: A. Germanium **12.** Where would you locate the element with electronic configuration 2, 8 in the modern periodic table? B. Group 2 C. Group 18 A.Group 8 D. Group 10 Ans: C. Group 18 **13.** An element which is an essential constituent of all organic compounds belong to C. Group 15 A.Group 1 B. Group 14 D. Group 16 Ans: B. Group 14 A.K shell B. L shell C. M shell D. N shell Ans: B. L shell 15. Which one of the following elements exhibit maximum number of valence electrons? B. Al D. P A.Na C.Si Ans: D. P 16. Which among the following elements has the largest atomic radii A.Na B. Mg D.Ca C. K Ans: C. K 17. Which one of the following elements would lose an electron easily? A.Mg B. Na C. K D. Ca Ans:C. K 18. Which of the following elements does not lose an electron easily? D. Al A.Na **B**. **F** C. Mg Ans: B. F **19.** What type of oxide would Eka-aluminium form? B. E₃O₂ C. E₂O₃ D. EO A.EO₃ Ans:C. E₂O₃ **20.** Three elements B, Si and Ge are A. Metals B. Non- metals C. Metalloids D. Metals, non-metals and metalloids Ans: C. Metalloids **21.**On moving from left to right in a short period, the valency of elements with respect to hydrogen _____ B. decreases A. increases D. first increases from 1 to 4 then decreases from 4 to 1. C. remains unchanged Ans: D. first increases from 1 to 4 then decreases from 4 to 1 **22.** Modern periodic table is based on A. atomic weight B. equivalent weight C. molecular weight D. atomic number Ans: D. atomic number

- A. The elements become less metallic in nature.
- B. The number of valence electrons increases.
- C. The atoms lose their electrons more easily.
- D. The oxides become more acidic.

Ans: C. The atoms lose their electrons more easily.

(On moving from left to right across the periods of the periodic table, the non-metallic Character increases. Hence, the tendency to lose electrons decreases.)

24. Element X forms a chloride with the formula XCl2, which is a solid with a high melting point. X would most likely be in the same group of the Periodic Table as

X wou				ne Periodic Table as	
	A.Na	B. Mg	C. Al	D. Si	
Ans:	B.X would most	t likely be in	the same gro	oup of the Periodic Tab	ole as magnesium (Mg).
					\sim
25. A	n atom has elec	tronic config	uration 2.8.	7.The atomic number	of this element is
			,,-,-,		
	A.17	B.18	C.19	D.20	
Ans:	Δ 17				
A115. /	 /				
26. M	endeleev used [.]	these as a cri	teria in his p	eriodic table	
	A. Hydrides a	nd Chlorides	B. Chlori	des and Oxides	
	C. Hydrides a	nd Oxides		D. Hydrides, chlo	orides and oxides
Ans:	C. Hydrides and	l Oxides			
27. Id	entify the form				
	A. (A+C)/2 =	B B. (A	- C) =2B	C. 2B - C =A	D. 2B -A = C
Ans:	B. (A - C) =2B				
28. W	/hich of the foll	owing is the	correct incre	asing order of the aton	nic radii of the elements
	en, fluorine and			0	
,	A. O < F < N		l < F < 0	C. O < N < F	D. F < O < N
Ans: I	D. F < O < N				
					ly, of the periodic table.
Whic	h of the elemer				
	A. A andB	B. B ar	nd C	C. C and A	D.A
Ans:E	B. B and C				
	•				
		-	-	nd 1st group of the peri	odic table. What is the
numb	per of valence e		s atom?	0.0	5.0
	A. 1	В. З		C. 6	D. 8
Ans:	A. 1				
21 /	n element Mic	in group 12+l	a of the perio	odic table, the formula	of its ovideis
31 . A	A. MO		101 the period	C. M_3O_2	D. MO ₂
	7.100	D. N	1203	C. 101302	D. 1002

32. Observe the table A.LiO	e and identify the forr B. Li ₂ O	nula of oxide of lithiu C. LiO ₂	m D. Li ₂ O ₃
Ans: A.LiO	D. Li20	C. 1102	D. 11203
	as more protons ost electro negative		ith least nuclear charge npletely filled shell
34. Electronic configu A. 2, 2 Ans: C. 2, 4	Iration of carbon is B. 2, 3	C. 2, 4	D. 2, 5
35. Number of valend A. 1 Ans: A. 1	ce electrons found in B. 2	the element with ator C 3	nic number 19 is D. 4
36. A, B, C,D, E are th Most electronegative		o group 1,2,13, 14, 16 o is	respectively.
A. A Ans: D. E	B. D	С. В	D. E
is A. Li > Be > B :	>C>N>O>F B.Li< >C>O>N>F	< B < Be < C < N < O <	g order of their nuclear charge F 3 < C < N < O < F
38. Identify the elem A. Ca Ans: C. K	ent that has the tend B. Na	ency to lose the electr C. K	r <mark>ons most easily</mark> . D. Mg
 39. A metal 'M' is in t A. MO , 2 Ans: C. M₂O₃, 3 	he 13th group of the B. M ₂ O , 2	Periodic Table. Its oxi C. M ₂ O ₃ , 3	de formula and valency are D. M_3O_2 , 3
40. Consider the elem you expect to be in g $A_{.20}Ca$ and $_{16}S$	roup 16 of the Period	ic Table?	of the above elements would 5 D. ₈ O and 16S
Ans: D. 80 and 16S			
	riodic table, which ele B. He , Ar, K	ement are completely C.He, Ne, Ar	f <mark>illed with electrons?</mark> D. He. Ni, Ar,
Ans: C.He, Ne, Ar			
	ent E, with 2 shells an . B C.		compound with a formula MgE D. O

43. In the modern period A. 2 Ans: C. 13	ic table, Eka alumini B. 3	ium can placed in the g C. 13	roup D.14
44. The element with thre A.Carbon Ans: B. Silicon	ee shells, having fou B. Silicon	r <mark>electrons in its valenc</mark> C. Sulphur	D. Phosphorous
45. The element with two A.Carbon Ans: B. Boron	B.Boron	electrons from its valer C.Beryllium	D Aluminium
46. The element that has A.Carbon Ans: A. Carbon	electrons twice as r B.Beryllium	-	cond shell as in its first shell 9.Nitrogen
47. In the given table, For	mula of the compo	und formed between B	and D is
A. BD Ans: D. DB	1 2 A D F B. B2D	15 16 17 B C B E H I C, BD2	D. DB
48. In the above table, m A. A Ans: B. C	ost non-metallic ele B. C	ment is C. I	D. F
49. In the above table, m A.A Ans: D. F	ost metallic element B. C	t C.I	D. F
50. Maximum number of A. 2 and 8 Ans: C. 8 and 8	B. 8 and 18	C. 8 and 8	D. 18 and 18
 51. (A+C)/2 = B can be rel A. Mendeléev's per C. Newlands' Law Ans: B. Döbereiner's law 	eriodic law of Octaves D. Mode	B.Döbereiner's l	
52. In Newlands' periodic			· · · · · · · · · · · · · · · · · · ·
A. Co and Ni	B. Cu and Ni	C. Ni and Ce	D. Co and Cr
Ans: A. Co and Ni			
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5. LIFE PROCESSES

A. arteryB. capillaryC. VeinD. HaemoglobinAnswer: A. artery2. Name a circulatory fluid in the human body of the body.D. PlasmaA. PlateletsB. RBCC. LymphD. PlasmaA. PlateletsB. RBCC. LymphD. PlasmaAnswer: C. LymphSingle circulation, i.e., blows through the set only once during one excele of passageA. hyla, rana, dracoB. whale, dolphin, turtleC. labeo, chameleon, salamanderD. hippocampus, excetus, anabasAnswer: D. hippocampus, excetus, anabasA and B are found to be 9 gm/dLA. Haemoglobin levels in the blood samples of two persons A and B are found to be 9 gm/dLand 13 gm/dL respectively. Which statement is true with respect to the sequent of oxygena. More in person A than in person AB. More in person A than in person B
2. Name a circulatory fluid in the human body other than blood. A. Platelets B. RBC C. Lymph D. Plasma Answer: C. Lymph 3. Single circulation, i.e., blood flows through the heart only once during one cycle of passage through the body, is exhibited by which of the following: A. hyla, rana, draco C. labeo, chameleon, salamander D. hippocampus, exocoetus, anabas Answer: D. hippocampus, exocoetus, anabas 4. Haemoglobin levels in the blood samples of two persons A and B are found to be 9 gm/dL and 13 gm/dL respectively. Which statement is true with respect to the amount of oxygen supply in their body? A. More in person B than in person A
A. PlateletsB. RBCC. LymphD. PlasmaAnswer: C. LymphSingle circulation, i.e., blood flows through the bart only once during one cycle of passage through the body, is exhibited by which of the following: A. hyla, rana, dracoB. whale, dolphin, turtle D. hippocampus, exocoetus, anabasA. hyla, rana, dracoD. hippocampus, exocoetus, anabasA. Haemoglobin levels in the blood samples of two persons A and B are found to be 9 gm/dL and 13 gm/dL respectively. Which statement is true with respect to the amount of oxygen supply in their body?A. More in person B than in person A
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and 13 gm/dL respectively. Which statement is true with respect to the amount of oxygen supply in their body? A. More in person B than in person A
supply in their body? A. More in person B than in person A
A. More in person B than in person A
B. More in person A than in person B
C. Equal in person A and person B
D. No relation between oxygen supply and the level of haemoglobin.
Answer: A. More in person B than in person A
5. Blood consist of what fluid medium?
A. Lymph B. Platelets C. Plasma D. All of these
Answer: C. Plasma
6. One cell-thick vessels are called
A. Arteries B. Veins C. Capillaries D. Pulmonary artery
Answer: C. Capillaries
7. The only artery which carries deoxygenated blood is:
A. Pulmonary artery B. Renal artery C. Hepatic artery D. Coronary artery
Answer: A. Pulmonary artery
8. How many chambers does a frog's heart have? How many chambers does a frog's heart
have?
A. 1 B. 2 C. 3 D. 4
Answer: C. 3
9. Oxygenated blood reaches heart by
A. Pulmonary artery B. Pulmonary vein C. Aorta D. Vena cava
Answer: B. Pulmonary vein
10. Which of the following substances is transported by blood plasma?A. FoodB. PotassiumC. AlcoholD. All of these
A room D. rotassium C. Alconol D. All of these

Answer: D. All of these			
11. How many chambe	-	aan haart2	
A. One	B. Two	C. Three	D. Four
Answer: D. Four	D. 100	C. Three	D. TOUT
12. In humans, right at	uricle receives	blood from	
A. Oxygenated		B. Deoxygenated, vena c	cuc
C. Oxygenated		D. Deoxygenated, aorta	ava
Answer: B. Deoxygena		D. Deoxygenated, aorta	
13. Veins have valves t			
	.0		
A. Prevent bacl	k flow of blood	B. Prevent the collapse of	of the vein
C. Maintain its	position in the body	D. None of these	
Answer: A. Prevent ba	ck flow of blood		0//
14. The colour of bloo	d plasma is:		<i>''</i> '
A. Red	B. Pale yellow	C. Yellowish gree	n D. Pink
Answer: B. Pale yellow			
		material between blood a	and surrounding cells
occur?			_
A. Heart	B. Veins	C. Arteries	D. Capillaries
Answer: D. Capillaries			
16. The only reptile ha	ving 4- chambered he	eart is:	
A. Snake	B. Turtle	C. Lizard	D. Crocodile
Answer: D. Crocodile			
17. Superior and inferi	or vena cava respecti	vely carries blood from	
A. Upper and lo	ower parts of body	B. Lower and upp	per parts of body
C. Upper and la	iteral parts of the boo	ly D. Lateral and lov	wer parts of the body
Answer: A. Upper and	lower parts of body		
		· · · · · · · · · · · · · · · · · · ·	a tha an a Charala ta
18. The champer of he	art that receives deox	kygenated blood from the	e tissues of body is
A. Left atrium	B. Right atriun	n C. Left vertical	D. Right ventricle.
Ans: B. Right atrium			
19. The xylem in plant:	s are responsible for		
A. transport of	water B. tran	sport of food	
C. transport of		nsport of oxygen	
Answer: A. transport of			
20. Significant role of s A. Create upward		B. absorb carbon dioxide	
B. C. release oxyg	-	D. perform transpiration	
Answer: A. Create upw			
21. It helps in transloc		5.	
A. Xylem	B. Palisade cel	ls C. Root hairs	D. Phloem
Answer: d			

22. Which plant tissue trai					
A. Xylem	B. Phloem	C. P	Parenchyma	D.	Collenchyma
Answer: A. Xylem					
23. The movement of food					
A. transpiration	B. translocati	on C. r	espiration	D.	evaporation
Answer: B. translocation					
24. Name the tube which	connects the kidr	neys to the u	rinary bladd	ler.	
A. Urethra	B. Nephron	С. Т	ubule	D.	Ureter
Answer: D. Ureter					
25. Which part of nephror			ption of use	ful substa	ances like glucose,
amino acids, salts and wat					
A. Tubule	B. Glomerulu	s C. E	Bowman's ca	apsule	D. Ureter
Answer: A. Tubule					
26. Where is the dirty bloc	od in our body fil	tered?			
A. Heart	B. Lungs	C. L	Jreter	D.	Kidneys
Answer: D. Kidneys					
27. The procedure used for	or cleaning the blo	bod of a pers	on by separ	ating ure	a from it is called:
A. osmosis	B. filtration	C. d	lialysis	D.	double circulation
Answer: C. dialysis					
28. Urea formation takes	place in				
A. liver	B. kidney	C. II	ungs	D.	skin
Answer: A. liver	21				•••••
29. Identify the correct pa	th of urine in the	human hody			
A. Kidney \rightarrow urina					
B. Urinary bladder	· ·				
C. Kidney \rightarrow ureter		-			
-					
D. Kidney → ureter					
Answer: D. Kidney \rightarrow uret					
30. The kidneys in human				_	
A. nutrition	B. respiration	с. е	excretion	D.	transportation.
Answer: C. excretion					
31. The blood pressure is i					
a) Manometer b) B	arometer	c) sphygmo	omanomete	r d)	Photometer
Ans: c) Sphygmomanon	neter				
32. Blood clotting is done	by				
a) RBC b) WBC c) plate	elets d) plasma				
Ans: c) platelets	<i>,</i> .				
33. Normal blood pressure	e in human being	s is.			
a) 160/80 mmHg b) 1		c) 120/72m	nmHg	d) 80/120)mmHg
Ans: b) 120/80mmHg	20,0011118	0, 120, 720		.,,	
34. Name the largest arter	w of the body				
a) pulmonary artery		(voin c)	orto	d) ronal a	rtony
	b) pullionally		aorta	d) renal a	rtery
Ans: c) aorta	and water from t	وروالد الامم معا			
35. Roots of the plant abs					
	ranspiration	c) osmosis	d) tran	sportation	n
Ans: a) diffusion					
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
36. What is the advantage		mbers prese	nt in humar	heart?	
		mbers prese	nt in humar	heart?	

 b) To mix the oxygen rich blood with c) To get highly deoxygenated blood d) To prevent oxygenated blood mix Ans: d) to prevent oxygenated blood mix 37. Vena cava carries, a) Oxygenated blood from lungs to heart b) Deoxygenated blood from body parts t c) Oxygenated blood from heart to body d) Deoxygenated blood from heart to lun Ans: b) Deoxygenated blood from body p 38. The opening and closing of stomatal pore 	ing with deoxyg ing with deoxyg o the heart parts gs arts to heart	genated blood	
a) oxygen b) water in guard cells Ans: d) temperature	c) carbon di oxi	de in stomata	d) temperature
 39. The blood leaving the tissues is rich in, a) haemoglobin b) carbon di oxide 	ide c	c) water	d) oxygen
40. What prevents backflow of blood during	contraction in h	neart?	
-	•	ar walls of ventri	cles
	d) All		
Ans: a) Valves in heart			
******	*****	*****	*****
6. CONTROL AN	D COO	RDINA	TION
1. Any change in the environment to which a	n organism res	ponds is called	
A. stimulus B. coordination		C. response	D. hormone
Answer: A. stimulus			
2. The Brain is responsible for A. thinking	B. regulating th	a haart blood	
_	D. All of the abo		
Answer: D. All of the above			
3. The structural and functional unit of huma	n nervous syste	em is	
A. neuron B. nephron	C. hepat	tic cell D.	cell
Answer: A. neuron			
4. A microscopic gap between a pair of adjac			
A. impulse B. dendrite	C. axon	D. :	synapse
Answer: D. synapse 5. The correct path of the movement of nerv	e impulse in th	e following diagra	am is
Spinal cond / reflex are			111115
	-de alta la est		
Xte +s	50		
No AR	K.		
1 sere	\$		
information collected transmec orga			
A. $Q \rightarrow S \rightarrow R \rightarrow P$		B. $P \rightarrow Q \rightarrow R$	
$C. \ S \to R \to Q \to P$		$D. P \to R \to S$	$\rightarrow Q$
Answer: B. P \rightarrow Q \rightarrow R \rightarrow S 6. Which porves transmit impulses from the	control norvous	system towards	musclo colle?
6. Which nerves transmit impulses from the		system towards	

A. Sensory nerves Answer: B. Motor nerves	B. Motor nerves	C. Relay nerves	D. Cranial nerves
7. The main coordinating cen	t <mark>re in the human bod</mark> y B. heart	/ is C. brain	D. kidney
8. The centre of reflex action	is		
A. brain	B. spinal cord	C. cerebrum	D. cerebellum
Answer: B. spinal cord			
9 neuron carries the m	essage from receptors	s to the spinal cord	
A. Sensory nerves	B. Motor nerves	C. Relay nerves	D. Cranial nerves
Answer: A. Sensory nerves			
10. Receptors are located in	organs.		
Answer:C. sense			
11. Sudden response of a boo	•		
A. sensation	B. reaction	C. reflex action	D. stimulation
Answer:C. reflex action			
12. Main function of cerebru			
A. thinking	B. hearing	C. memory	D. balancing
Answer: A. thinking			
13. Posture and balance of th			
A. Pons	B. Medulla oblongata	C. Cerebellum	D. Cerebrum
Answer: C. Cerebellum	lately and a full start of		
14. Breathing is controlled by			
A. Cerebrum	B. Cerebellum	C. Hypothalamus	D. Medulla oblongata
Answer: D. Medulla oblongat			
15. Largest part of the brain i		C mandulla	D. Dene
A. cerebrum	B. cerebellum	C. medulla	D. Pons
Answer: A. cerebrum 16. The nervous system uses	impulses to tran	smit mossagos	
	B. electrical	C. hormonal	D. chemical
A. muscular Answer: B. electrical	B. electrical	C. HOITHOHAI	D. chemical
17. Blood pressure, salivation	and vomiting are con	trolled by	
A. cerebrum	B. medulla	C. cerebellum	D. Pons
Answer: B. medulla	D. medulia		0.1013
18. Which of the following is	a plant hormone?		
10. When of the following is	a plant normone.		
Answer:D. Cytokinin			
19. Roots of the plant grow to	owards soil: this respo	nse towards earth is ca	lled
A. Auto tropism	B. Chemotropism	C. Geotropism	D. Hydrotropism
Answer:C. Geotropisr	n		
20. A response that does not			

A. Bending of shoot towards light. B. Penetration of roots in deep soil.

21. Which plant hormone p A. Auxin Answer: D. Abscisic acid	romotes dormancy in a B. Gibberellin	seeds and buds? C. Cytokinin	D. Abscisic acid	
22. Roots of plants are:	ie	D. pozotivoly zootrop	ie	
A. positively geotrop C. positively phototro		B. negatively geotrop D. None of these	nc	
Answer: A. positively geotro	•	D. None of these		
23. Response of plant roots	· · · · · · · · · · · · · · · · · · ·	4.		
A. Chemotropism	B. Phototropism	C. Hydrotropism	D. Geotropism	
Answer: C. Hydrotropism	B. Fliototi opisili	c. nyurotropisin	D. Geotropisin	
24. Movement of sunflower	in accordance with the	e nath of Sun is due to		
A. Chemotropism	B. Geotropism	C. Phototropism	D. Hydrotropism	
Answer: C. Phototropism				
25. Which plant hormone pr	romotes cell division?		7/,	
A. Auxin	B. Gibberellin	C. Cytokinin	D. Abscisic acid	
Answer:C. Cytokinin				
26. The main function of abs	scisic acid in plants is			
A. to promote cell di	vision.	B. to inhibit growth.		
C. to promote growt	h of stem.	D. to increase the len	gth of cells.	
Answer:B. to inhibit growth.				
27. Fall of mature leaves and	d fruits from plants is t	riggered by which of th	ne following	
substance?				
A. Auxin	B. Cytokinin	C. Gibberellin	D. Abscisic acid	
Answer: D. Abscisic acid				
28. A part of the body which				
A. receptor Answer: B. effector	B. effector	C. nerves	D. muscles	
29. Identify the correct state	ment among the follo	wing with respect to th	o plant hormonos	
A. Cytokinin promote		B. Auxin inhibits ster		
C. Abscisic acid inhib		D. Gibberllin promote	•	
Answer: C. Abscisic acid inhi		B. Gibbernin promoti		
30. The growth of pollen tub		he example of:		
A. hydrotropism	B. geotropism	C. phototropism	D. chemotropism	
Answer:D. Chemotropism				
31. Which of the following acts as both endocrine and exocrine gland?				
A. Pancreas	B. Thyroid	C. Adrenal	D. Liver	
Answer: A. Pancreas				
, , ,	uires iodine to synthes	ize thyroxin.		
B. Thyroxin is also called thyroid hormone.				
C. It regulates protein, carbohydrates and fat metabolism in the body.				
D. Iron is essential for the synthesis of thyroxin.				
Answer: D. Iron is essential for the synthesis of thyroxin. 33. Which gland secretes the growth hormone?				
A. Pituitary gland	B. Thyroid	C. Hypothalamus	D. Adrenal	
A. Pituitary gland	D. THYIUU			
, nowen , a manary grand				

Years of age?

- A. Oestrogen from testes and testosterone from ovary.
- B. Estrogen from adrenal gland and testosterone from pituitary gland.
- C. Testosterone from testes and estrogen from ovary.
- D. Testosterone from thyroid gland and estrogen from pituitary gland.

Answer: C. Testosterone from testes and estrogen from ovary.

35. A diabetic patient suffers from deficiency of which hormone? A. Thyroxine B. Testosterone C. Oestrogen D. Insulin Answer: D. Insulin 36. Which of the following endocrine glands does not exist in pairs? A. Testes B. Adrenal C. Pituitary D. Ovary Answer: C. Pituitary 37. Deficiency of hormone in childhood leads to dwarfism in humans. Answer: C. growth 38. In reflex action, the reflex arc is formed by B. Brain – spinal cord - muscles A. Effector – spinal cord – receptor C. Receptor – spinal cord – Effector D. Muscles – receptor – brain Answer:C. Receptor – spinal cord – Effector 39. The incorrect statement related to thyroxine hormone is A. it regulates metabolism B. its deficiency leads to goiter C. it is secreted by parathyroid gland D. iodine is essential for its production Answer: C. it is secreted by parathyroid gland 40. If the roots of a plant are growing towards nitrate concentrated region of the soil, it is A. phototropism B. thigmotropism C. hydrotropism D. chemotropism Answer: D. Chemotropism

7. HOW DO ORAGANISMS REPRODUCE?

1. The flower of the Hibiscus plant is.					
a) Bisexual	b) unisexual	c) neuter	d) very small		
Ans: a) Bisexual					
2. The part of the flower which is present in the centre of the flower is.					
a) Sepals	b) Pistil	c) Anther	d) Stamens		
Ans: b) Pistil					
3. The period of pregnancy	is called				
a) Gestation period	b) incubation period	c) ovulation	d) menstruation period		

Ans: a) Gestation period

a) Ovulation	b) puberty	c) germination	d) propagation
Ans: b) puberty			
5. Along the path of the vas-	-deferens the secret	tions of which gland provide nutrit	ion to the sperms?
a)Prostate gland	b) Seminal vesicle	es c) Scrotum	d) Urinary bladder
Ans: a) Prostate gland			
6. Which among the following t	ng diseases is not se	exually transmitted?	
a) Syphilis	b) Hepatitis	c) HIV-AIDS	d) Gonorrhoea
Ans: b) Hepatitis			
7. Which of the following m	ethod of contracept	tion protects from acquiring sexua	lly transmitted diseases?
a) Surgery	b) Copper-T	c) Condoms	d) Oral-pills
Ans: c) Condoms			
8. In human males, the test	es lie in the scrotum	n, because it helps in the,	
a) Process of mating	5	b) easy transfer of gametes	
c) secretion of estro	gen	d) formation of sperms	
Ans: d) formation of sperms	S	O	
9. Which of the following ste	erilization methods	is permanent?	
a) Vasectomy	b) Tubal Sterilizati	on c) IUCD	d) (a) and (b)
Ans: d) (a) and (b)	\mathcal{O}		
10. IUCD is for			
a)Contraception.		b) Vegetative propagation.	
c) Increasing fertility	<i>.</i>	d) Avoiding miscarriage.	
Ans: a)Contraception.			
11. The correct sequence of			
	reproductive stage	s seen in flowering plants is	
a) Gamete, zygote, embryo,		s seen in flowering plants is b) zygote, gamete, e	embryo, seedling
a) Gamete, zygote, embryo, c) Seedling, embryo, zygote,	seedling		
c) Seedling, embryo, zygote,	seedling gametes	b) zygote, gamete, e	
	seedling gametes bryo, seedling	b) zygote, gamete, e d) gamete, embryo,	
c) Seedling, embryo, zygote, Ans: a) Gamete, zygote, em 12. Name the male and fem	seedling gametes bryo, seedling ale reproductive pa	b) zygote, gamete, e d) gamete, embryo,	

c) Male reproductive part: Stamens and female reproductive part :Pistil

d) Male reproductive part: Sepal and female reproductive part :Petal.

Ans: c) Male reproductive part : Stamens and female reproductive part : Pistil

13. Why prostate gland secrete fluid.

- a) Secretion of Prostate gland makes the transportation of sperm difficult..
- b) Secretion of Prostate gland makes the transportation of eggs easier.
- c) Secretion of Prostate gland makes the transportation of sperm easier.
- d) Stimulates the formation of sperm.

Ans: c) Secretion of Prostate gland makes the transportation of sperm easier-

14. Which of the following is not an important role of placenta during gestation period of woman?

- a) They regulate temperature necessary for embryo.
- b) It contains villi on the developing side of the tissue
- c) Villi provide glucose and oxygen to pass from mother to embryo.
- d) Removes the wastes generated from the embryo.

Ans: a) they regulate temperature necessary for embryo.

15. The embryo gets nutrition from the mother's blood with the help of a special tissue called.

a) Uterus	b) placenta	c) zygote	d) womb
Ans: b) placenta	Sr.		
16. Among the following	select the statements that ar	e true regarding the sexua	l reproduction in flowering

plants?

(i) Fertilisation is a compulsory event.

(ii) It always results in the formation of zygote.

(iii) Traits which are not transfer over generation do not cause evolution.

(iv) It requires two types of gametes.

a) (i) and (iv)	b) (i), (ii) and (iii)	c) (ii), (iii) and (iv)	d) (i), (ii) and (iv)
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Ans: d) (i), (ii) and (iv)

17. Which of the following is an example for unisexual flowering plant?

a) Watermelon.	b) Papaya	c) both of the above.	d) None of the above.
Ans: c) both of the above			

18. Which of the following is an future shoot and future root.				
a) Futureshoot: cotyledon ar	nd Future root: pollen grair	ns. b) Futureshoot: overy an	d Future root: Radicle.	
c) Futureshoot: embryo and	Future root: steman.	d) Future shoot: Plumule	e and Future root: Radicle.	
Ans: d) Future shoot: Plumu	le and Future root: Radicle	2.		
19. During adolescence, seve maturation in boys.	eral changes occur in the h	uman body. Mark one change a	issociated with sexual	
a) Loss of milk teeth. b) Ir	ncrease in height.	c) Cracking of voice.	d) Weight gain.	
Ans: c) Cracking of voice				
20. Variations occur as a res	ult of.			
a) Sexual reproduction	b) Asexual reproduction	n c) vegetative propagation	d) regeneration	
Ans: a) sexual reproduction				
a) fallopian tube	b) uterus	c) vagina	d) cervix	
Ans: a) fallopian tube				
22. Reproduction is essentia	I for living organisms in ord	ler to		
a) Keep the individual organ	ism alive	b) continue the species gener	ation after generation	
c) Fulfil their energy require	ment	d) Maintain growth		
Ans: b) continue the species	s generation after generati	on		
23. In case the ova does not	fertilise, which of the follo	wing events will take place?		
a) Menstruation	b) Implantation	c) Pregnancy	d) Ovulation	
Ans: a) Menstruation				
24. Pre-natal sex determinat	ion has been prohibited by	law due to.		
a) High cost charged by doct	ors.	b) Possible dangerous for mo	ther's health	
c) Increasing cases of male for	oeticide.	d) increasing cases of female	foeticide.	
Ans: c) Increasing cases of n	nale foeticide.			
25. Human male germ-cells calledand human female germ cells called				
a) Testes, Ovary	b) Sperm, Egg	c) stigma, stamen	d) None of these	
Ans: b) Sperm, Egg				
26. Seed germination refers	to?			

a) Development of embryo ir	nto seedling	b) Transfer of poller	n grain from stamen to stigma
c) Development of zygote int	o embryo	d) None of these	
Ans: a) Development of emb	oryo into seedling		
27. Which of the following is	true with respect to mer	nstruation cycle?	
c) It happens roughly	vevery month in females	i	5
d) All of these			
Ans: d) All of these		C	
28. How oral pills prevent pro	egnancy?		~
a) Changes the hormonal bal	ance of the body and pre	event release of egg.	b) Deactivate sperms
c) Create barrier in fallopian	tube		d) none of these
Ans: a) Changes the hormon	al balance of the body a	nd prevent release of egg.	
29. Which among the followi	ng are not the functions	of testes at puberty?	
(i) Formation of male germ of	cells. (ii)Secretion	of testosterone.	
(iii) Development of placenta	(iv) Secretion	n of estrogen.	
a) (i) and (iii)	b) (i) and (ii)	c) (ii) and (iv)	d) (iii) and (iv)
Ans: b) (i) and (ii)	$\mathcal{O}^{\mathcal{L}}$		
30 Is a duct coming	from the urinary bladde	r which carries sperms?	
a) Fallopian tube	b) Uterus.	c) Prostate gland.	d) Vas deferens.
Ans: d) Vas deferens.			
31. During pregnancy menst	ruation is:		
a) Present	b) absent	c) intermittent	d) present with pain
Ans: b) absent			
32. After fertilization which structure forms fruit?			
a) Calyx	b) corolla	c) stamen	d) ovary
Ans: d) ovary			
33. Gland which is found only in males is:			
a) Gastric gland	b) perineal gland	c) prostate gland	d) pancreas
D I R E C	TORATE OF MINO	RITIES-SSLC-SCIEN(CE-MCQ 35

Ans: c) prostate gland				
c) Copulation is easy		d) none o	of the above	
35. Transfer of pollen	grains from stigma to ov	vary is called:		
a) Pollination	b) ovulation	c) fertilization	d) none of these	\sim
Ans: a) Pollination				
36. The anther contain	IS:			
a) Sepals	b) ovules	c) carpel	~~	d) pollen grains
Ans: d) pollen grains			\mathbf{O}	
37. Symptoms of pube	rty in males are			
a). Deepening of voice		b). Facial gro	owth on face and g	enitals
c). Occasional erection	of the penis	d). a,b and	c all	
Ans:d). a,b and c all		<i>O</i>		
38. Symptoms of pube	rty in females are			
a). Enlargement of bre	ast b). Initiatio	on of the menstruation cy	vcle c). Botl	h d). None
Ans: c). Both	Sr.			
39. Pistil is	$\langle O \rangle$			
a) Present in the centre	e of a flower	b) the female re	productive part	
c) Made of three parts)	d) all of the abov	ve	
Ans: d) all of the abov	e			
40. The swollen bottor	n part of flower is			
a) Ovary above	b) style	c) stigm	a	d) none of the
Ans: c) stigma				
*****	*****	******	*****	******

8. HERIDITY AND EVOLUTION

1. The plants selected by Mendel for his experiment are

A) Green gram B) Evening prim rose C) Beans D) Green Peas

ANS:D) Green Peas

2. If the fossil of an organism is found in the deeper layers of earth, then we can predict that

A) The extinction of organism has occured recently

B) The extinction of organism has occured thousands of years ago

- C) The fossil position in the layers of earth is not related to its time of extinction
- D) Time of extinction cannot be determined

ANS: B) The extinction of organism has occured thousands of years ago

3. In evolutionary terms, we have more in common with

A) A Chinese boy B) A chimpanzee C) A spider D) A bacteria

ANS: B) A chimpanzee

4. A pure dominant pea plant producing round — yellow seeds is crossed with pure recessive pea plant producing wrinkled — green seeds. The number of plants bearing round — green seeds in the F2 generation of Mendel's experiment is

(A) 0 (B) 1 (C) 3 (D) 9

ANS:(C) 3

5. What is the probability that the male progeny will be a boy?

A) 50% B) 56% C) 45% D) it varies

ANS: A) 50%

6. The number of pair (s) of sex chromosomes in the zygote of humans is

A) 22 B) 23 C) 1 D) 2

ANS: B) 23

7. The genotypic ratio in F2generation in monohybrid cross experiment is

A) 1 : 2 : 1 B) 3 : 1 C) 2 : 1 : 1 D) 1 : 3

ANS: A) 1 : 2 : 1

8. Homologous organs have ____

A) Same structure same function B) different Origin different function
C) Same Origin different function D) different structure same function
ANS: C) same Origin different function
9. Theory of evolution is given by
A) JBS Haldane B) Lamark C) Charles Darwin D) Gregor Mendel
ANS: C) Charles Darwin
10. The exchange in genetic material takes place in
A) Vegetative propagation B) Asexual reproduction C) sexual reproduction D) budding
ANS: C) sexual reproduction
11. If a normal cell of human body contains 46 pairs of chromosomes then the numbers of chromosomes in a sex cell of a human being is most likely to be
A) 60 B) 23 C) 22 D) 40
ANS: B) 23
12. Which of the following determines the sex of a child?
A) The length of the mother's pregnancy
B) The length of time between ovulation and copulation
C) The presence of an X chromosome in an ovum
D) The presence of a Y chromosome in a sperm
ANS: D) The presence of a Y chromosome in a sperm
13. the earliest member of human species, Homo sapiens can be traced from
A) West asia B) Australia C) East asia D) Africa
ANS:D) Africa
14. The basket of vegetables contains carrots, potato, radish and tomato. Which of them represents the correct homologous structures?
A) Carrot and Potato B) Carrot and Tomato C) Radish and carrot D) Radish and potato
ANS: C) Radish and carrot
15. Carbon dating is useful to find the
A) Structure of fossils B) Age of fossils C) Origin of fossils D) Carbon content in the fossils
ANS: B) Age of fossils

16. A Mendelian experiment consisted of breeding tall pea plants bearing violet flowers with short pea plants bearing white flowers. The progeny all bore violet flowers, but almost half of them were short. This suggests that the genetic make-up of the tall parent can be depicted as

(a) TTWW (b) TTww (c) TtWW (d) TtWw

ANS: (c) TtWW

17. An example of homologous organs is

(a) our arm and a dog's fore-leg (b) our teeth and an elephant's tusks.

(c) potato and runners of grass. (d) all of the above.

ANS: (a) our arm and a dog's fore-leg

18.If a trait A exists in 10% of population of an asexually reproducing species and a trait B exists in 60% of the same population. Which trait is likely to have arisen earlier?

a) Trait A b) Trait c)Both A & B d)none

ANS: b) Trait

19. Identify the correct pair of analogous organs among the following

(A) The forelimb of man and the forelimb of a frog

(B) The wing of a butterfly and the wing of a bat

(C) The wing of a bird and the wing of a bat

(D) The forelimb of lizard and the forelimb of a frog

b) a chimpanzee

ANS: (B) The wing of a butterfly and the wing of a bat

20. In evolutionary terms, we have more in common with

a) a Chinese school boy

c) a spider

d)a bacterium

ANS: b) a chimpanzee

21. An example of analyses organs is

a) A wing of a bat & wing of a bird

c)our teeth & elephant's tusk

b) Potato and turners of grass

d) None of the above

ANS: a) A wing of a bat & wing of a bird

22. The process where characteristics are transmitted from parent to offspring's is called

a)Variation b)Heredity c)Gene d)None of the above

ANS: b) Heredity

23. The phenomenon where individuals of a spaces exhibit differences in characteristics is called

a)adaptation	b)Evolution	c)Variation	d) All of the above
ANS: c) Variation	.,	-,	-,
24. Which of the following	statement is incorrect?)	
a) Gene is a seque			
	ess of gene expression D	NA is first copied to R	NA
	uire mutations in their s		
d) None of the abo			2
ANS: c) Gene cannot acqui		iuence	
25 is the desirab			
a)phenotype b)genes			<i>61</i> ,
ANS: a) phenotype			\mathbf{O}
26. When a new plants is newly formed plant is call		oss pollination from d	ifferent varieties of a plant the
a) Dominant plant b) M	utant plant c) Hybrid p	lant d) all of the ab	ove
ANS: c) Hybrid plant		$\boldsymbol{\mathcal{N}}$	
27. Who proposed the the	ory of evolution?		
a) Charles Darwin	b)Stanely miller	c) Aristotle	d)Hard Urey.
ANS: a) Charles Darwin	QX.		
28. Homologous organs ar	e organs that have		
a) Different function with (lifferent structure	b) Same	function with same structure
c)same function with diffe	ent structure	d)Differ	ent function but same structure
ANS: d) Different function	but same structure		
29. Which part of the DNA	provides information f	or a protein?	
a)Chromosome	b)Mitocho	ndria	c)RNA d) Gene
ANS: d) Gene			
30. Which of the following	is not controlled by ger	ne?	
a) Eye colour	b) Height	c) Hair colour	d) None of the above
ANS: d) None of the above	2		
21 Which of the following	can be inherited from	parants to off springs	2

a)Swimming technique	b)Sculpted body
c) Big nose	d) None of the above
ans: c) Big nose	
32. Which of the following scientist gave the prin	nciples of inheritance?
(a) Mendel (b) Griffin	(c) Johansson (d) Watson and Crick
Ans: (a) Mendel	
33. Which one of the following pairs are homolo	gous organs?
(a) Forelimbs of a bird and wings of a bat.	(b) Wings of a bird and wings of a butterfly.
(c) Pectoral fins of a fish and forelimbs of a horse.	(d) Wings of a bat and wings of a cockroach.
Ans: (a) Forelimbs of a bird and wings of a bat.	
34. Select the group which shares maximum nun	nber of common characters-
(a) two genera of two families	(b) two species of a genus
(c) two genera of a family	(d) two individuals of a species
Ans: (d) two individuals of a species	
35. A cross between a tall pea-plant (TT) and a sl tall plants because	nort pea-plant (tt) resulted in progenies that were all
(a) Tallness is the recessive trait.	(b) Shortness is the dominant trait.
(c) Height of pea-plant is not governed by gene T	or t. (d) Tallness is the dominant trait.
Ans: (d) Tallness is the dominant trait.	
36. Process of selecting individuals with desired	characters by man is called
(a) Hybridization (b) Reproduction	(c) Artificial selection (d) Natural selection
Ans: (c) Artificial selection	
37. What does the progeny of a tall plant with ro like?	ound seeds and a short plant with wrinkled seeds look
(a) All are tall with round seeds.	(b) All are short with round seeds.
(c) All are tall with wrinkled seeds.	(d) All are short with wrinkled seeds.
Ans: (a) All are tall with round seeds	
38. Some dinosaurs had feathers although they of fly. In the context of evolution this means that	could not fly but birds have feathers that help them to

(a) Reptiles have evolved from birds

(b) There is no evolutionary connection between reptiles and birds

- s(c) Feathers are homologous structure in both the organisms
- (d) Birds have evolved from reptiles.

Ans: (d) Birds have evolved from reptiles.

39. A zygote which has an X-chromosome inherited from the father will develop into a

(a) Girl (b) boy (c) either boy or girl (d) X-chromosome does not influence the sex of a child.

Ans: (a) girl

40. The process of evolution of a species whereby characteristics which help individual organisms to survive and reproduce are passed on to their offspring and those characteristics which do not help are not passed on is called.

(a) Artificial selection b) Speciation (c) Hybridization (d) Natural selection

Ans: (d) Natural selection

- 41. Which of the following decides the sex of the child?
 - (a) male gamete, i.e., sperm (b) female gamete, i.e., ovum
 - (c) both sperm and ovum (d) mother

Ans: (a) male gamete, i.e., sperm

42. Which of the following is the ancestor of 'Broccoli'?

(a) Cabbage	(b) Cauliflower	(c) Wild cabbage	(d) Kale
-------------	-----------------	------------------	----------

Ans: (c) Wild cabbage

43. According to the evolutionary theory formation of a new species occurs generally due to-

- (a) Sudden creation by nature.
- (b) accumulation of variations over several generations
- (c) clones formed during asexual reproduction
- (d) Movement of individuals from one habitat to another.
- Ans: (b) accumulation of variations over several generations

44. Which of the following is not correct-?

- (a) For every hormone there is a gene. (b) For every protein there is a gene.
- (c) For production of every enzyme there is a gene.
- (d) For every molecule of fat there is a gene.

Ans: (d) For every molecule of fat there is a gene.

	eded pea-plant (RRyy) is ced in F1 generation are	s crossed with a wrinkled	yellow seeded pea-	· plant
(a) Round and green	(b) round and yellow	(c) wrinkled and green	(d) wrinkled and ye	llow
Ans: (b) round and yello	w			
46. The concept of orig	in of species by natural s	selection was given by.		
(a) lamarck	(b) Weismann	(c) Darwin	(d) Linnaeus	
Ans: (c) Darwin				
47. The genetic constitu	ution of an organism is c	alled.		
(a) Genotype	(b) phenotype	(c) variation	(d) gene.	
Ans: (a) Genotype			0/,	
48. A man with blood g of the child?	roup A marries a woma	n having blood group O.	What will be the blo	od group
(a)' O' only (b) 'A 'o	nly (c) 'AB' (d) Equ	ual chance of acquiring bl	ood group A or bloo	d group O
Ans: (d) Equal chance o	f acquiring blood group	A or blood group O		
49. Identify the two org	ganisms which are now e	extinct and are studied fr	om their fossils.	
(a) White tiger a	and sparrow	(b) Dinosaur and fish (Kn	ightia)	
(c) Ammonite a	nd white tiger	(d) Trilobite and white tip	ger)	
Ans: (b) dinosaur and fis	sh (Knightia)			
50. Those organs which	have the same basic st	ructure but different fund	ctions are called	
(a) Vestigial org	ans (b) Analogous o	rgans (c) Homologous	organs (d) None of	these
Ans: (c) Homologous or	gans			
51. Which of the follow	ing characters can be ac	quired but not inherited	?	
(a) Colour of s	kin (b) Size of boc	ly (c) Colour of eye	s (d) Texture (of hair
Ans: (b) Size of body				
52. Differences between organisms in a species are described as variation. Which of the following would you describe as continuous variation?				
(a) Hair colour	(b) Eye colour	(c) Weight	(d) Sex	
Ans: (c) Weight				
53. Mendel proposed t	hat every character is co	ontrolled by-		
(a) One factor	(b) two factors	(c) one chromos	ome (d) two chro	mosomes.
DI	RECTORATE OF M	I N O R I T I E S - S S L C - S	CIENCE-MCQ	43

Ans:	(b)) two	facto	rs
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54. Two pink colored flowers on crossing results in 1 red, 2 pink and 1 white flower progeny. The nature of the cross is-

(a) Cross-fertilization (b) self pollination (c) double fertilization (d) no fertilization

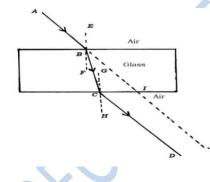
Ans: (a) cross-fertilization

55. The remaps (impressions) of dead animals or plant? That lived in the remote past are known as

(a) Extinct species	(b) fossils	(c) naturally	selected species	(d) none of the above
Ans: (b) fossils				
56. A cross between t progeny. This is an ex		esults in a ratio	o of 9 : 3 : 3 :1 for fou	r possible phenotypes of
(a) Monohybrid cross	(b) Di	hybrid cross	(c) Test cross	(d) F1 generation
Ans: (b) Dihybrid cross	S			2
• به	• • • • • • • • • • • • • • • • • • •	ماه	* * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *

9. LIGHT: REFRACTION AND REFLECTION

1. Identify the emergent ray in the given figure.



b) BC

a) CD

Ans: a) CD

2. An object is kept at the centre of curvature of a convex lens. The position and nature of the image formed is.

a) Between F and C and inverted.

b) Behind the mirror and erect.

c) AB

c) Between F and P and erect.

d) At the centre of curvature and inverted.

d) IJ

Ans: d) at the centre of curvature and inverted.

3. When a beam of light travelling obliquely from one medium to another, the direction of propagation of light in the second medium changes this phenomenon is known as

a) Refraction of light.	b) Reflection of light.	c) Dispersion of light.	d) Total internal reflection of light.
Ans: a) Refraction of light.			
4. Identify the correct optic	on of first and second lav	v of refraction of light.	
i) Incident ray, refracted ra incidence, all lie in same pl		rface of two transparer	nt media at the point of
ii) Angle of incidence is eq	ual to angle of reflection		
iii) Incident ray, normal to	the mirror at point of inc	cidence and reflected ra	ay, all lies in the same plane.
iv) Ratio of sine of angle o and pair of media.	f incidence to Sine of ang	gle of refraction is const	ant for light of given colour
a) i) and ii)	b) ii) and iv)	c) i) and iv)	d) iii) and iv)
Ans: c) i) and iv)		. (<i>K</i> ,
5. In which of the following = 2.42), kerosene (RI = 1.44			to other media.[diamond (RI
a) Rock salt.	b) Water	c) Kerosene	d) Diamond.
Ans: b) Water			
6. In which of the following (RI = 1.31)]	g media is an optically de	nser and optically rarer	.[kerosene (RI = 1.44), water
a) Kerosene is a de	enser media and water is	rarer medium.	
b) Kerosene is a ra	rer media and water is de	enser medium.	
c) Both the media'	s are rarer media.		
d) Both the media'	s are denser media.		
Ans: a) Kerosene is a dense	er media and water is rar	er medium.	
			s a constant, for the light of a {This law is true for angle
a) Law of reflection	b) Snell's law of refractio	on c) ohm's la	w d) Dispersion.
Ans: b) snell's law of refra	ction		
8. A Ray of light travelling from kerosene to water, speed up and bendA And then travelling into alcohol, slow down and the bandB			
a) Towards the normal and B) away from the normal			
b) Away from the r	normal and B) Away from	n the normal	

c) Towards the	normal and B) towards the nor	mal	
	he normal and B) towards the n		
	normal and B) towards the nor		
	·		
a) Concave lens.	b) Plano concave lens.	c) Plano convex len	s. d) Convex lens.
Ans: d) convex lens.			
10. A lens may have tw	o spherical surfaces, curved in v	words, such a lens is call	ed
a) Concave lens	b) convex lens. c) Plano	concave lens.	d) Plano convex lens.
Ans: a) Concave lens			
11. Which of the follow	ing is a converging lens?		
a) Concave lens.	b) Plano concave lens.	c) Glass slab.	d) Convex lens.
Ans: a) d) Convex lens			
12. Which of the follow	ring is a diverging lens?		
a) Concave lens.	b) Plano concave lens.	c) Glass slab.	d)convex lens.
Ans: a) a) Concave len	s.		
13. The centre of the sp	oherical refracting surface of the	e lens is called	
a) Optic centre	b) principal axis	c) Pole.	d) Centre of curvature.
Ans: c) Pole.	Sr.		
14. The point on the pr	incipal axis at the centre of the	lens is called	
a) Pole.	b) Optical centre.	c) Aperture.	d) Focal point.
Ans: b) Optical centre.			
15. A lens has two sphe these spheres is known	erical surfaces; these two spheri as	cal surfaces form a part	of a sphere. The centre of
a) Focal point.	b) Principal axis.	c) Pole.	d) Centre of curvature.
Ans: d) Centre of curva	ture.		
a) Principal axis.	b) Centre of curvature.	c) Principal	focus. d) Aperture.
Ans: a) Principal axis.			
17. The area of the lens	s suitable for refraction is called		

a) Principal axis.	b) Centre of curvature	c) Aperture.	d) Principal focus.
Ans: c) Aperture.			
	am parallel to the principal a r passing through the lens. C	ixis appears to diverge or con alled	verges from a point
a) Optical centre	b) Principal focus	c) Centre of curvature	d) Principal axis
Ans: b) Principal focus			
19. The distance between	n the optical centre and the	focal point or focus of the len	s called
a) Centre of curvature.	b) Focal length.	c) Radius of curvature.	d) Optical centre.
Ans: b) Focal length.			$\langle \rangle$
20. Ray of light from the through	object parallel to principal a	axis, after refraction from a co	nvex lens passes
a) Centre of curvature. curvature.	b) Optical centre.	c) Principal focus. d)	Beyond centre of
Ans: c) Principal focus.			
21. A ray of light passing convex lens will emerge		et a principal focus, after refr	action from the
a) Through optic	al centre.	b) Through centre of	curvature.
c) Through princ	ipal focus.	d) Parallel to the princ	ipal axis.
Ans: d) Parallel to the pr	incipal axis.		
22. A ray of light passing	through the optical centre o	f a lens wills emerge	
c) Through centr	e of curvature.	d) Parallel	to the principal axis.
23. In the experiment of refraction of light takes p		glass slab, which of the follov	ving situation
a) Angle of incidence is 9	0°.	b) Angle of incidence is	more than 90°.
c) Angle of incidence is le	ss than 90°.	d) Angle of incidence is	0°.
Ans: c) Angle of incidenc	e is less than 90°.		
24. The image formed by position of object should		l and of the same size as that	of the object. The
			c .

b) At the centre of curvature.

c) Between fo	cus and centre of curvature.	d) Beyond	centre of curvature.
Ans: b) At the centre	of curvature.		
25. Magnifying power	of a concave lens is.		
a) Always> 1	b) always < 1	c) always = 1	d) can have any value
Ans: b) always < 1			
26. Magnifying power	of a convex lens is.		
a) Always> 1	b) always< 1	c) always = 1	d) can have any value
Ans: a) Always > 1			

a) Position of the image at 2F2 and Nature of the image is virtual and erect.

b) Position of the image at focus F2 and Nature of the image is real and inverted.

c) Position of the image at focus F2 and Nature of the image is virtual and erect.

d) Position of the image at infinity and Nature of the image is real and inverted.

Ans: b) Position of the image at focus F2 and Nature of the image is real and inverted.

a) Position of the image: between F2 and 2F2 and nature of image is real and inverted.

b) Position of the image: at infinity and nature of image is real and inverted.

c) Position of the image: beyond 2F2 and nature of image is virtual and erect.

d) Position of the image: at 2F2 and nature of image is virtual and erect.

Ans: a) Position of the image: between F2 and 2F2 and nature of image is real and inverted.

29. If the magnification produced by a lens has a negative value, the image will be.

a) Virtual and inverted	b) virtual and erect	c) real and erect	d) real and inverted		
Ans: b) virtual and erect					
30. If the magnification produced by a lens has a positive value, the image will be.					
a) Virtual and inverted	b) virtual and erect	c) real and erect	d) real and inverted		

Ans: d) real and inverted

31. The ratio of the height of the image and the height of the object is called____

a) Power of lens.

b) Magnification.

c) De magnification. d) Snell's law.

Ans: b) Magnification.

- 32. Choose the correct definition of power of lens.
- a) Capacity to capture longer distance.
- c) The reciprocal of its focal length.

Ans: c) The reciprocal of its focal length.

- 33. What is the meaning of 1 dioptre?
 - a) The power of a lens whose focal length is 1 metre.
 - b) The power of a lens whose focal length is 1 centimetre.
 - c) The power of a lens whose focal length is 1 millimetre.
 - d) The power of a lens whose focal length is 1 nanometre.

Ans: a) The power of a lens whose focal length is 1 metre.

34. By using following information identify the concave lens and convex lens. 'A' lens has power = - 0.25D 'B' lens has power = + 0.5D

- a) 'A' lens is convex lens and 'B' lens is concave lens
- b) 'A' lens is concave lens and 'B' lens is convex lens
- c) We can't identify by using this given information.
- d) 'A' and 'B' both are convex lens.

Ans: b) 'A' lens is concave lens and 'B' lens is convex lens

35. The focal length of convex lens is 0.25 m calculate the power of lens

a) +1D	$\langle \rangle$	b) +2D	c) +3D	d) +4D
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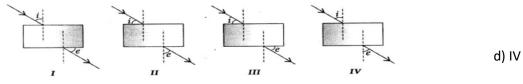
Ans: d) +4D

36. The laws of refraction hold good for

a) Plane mirror only b) concave mirror onl c) convex mirror only d) concave lens.

Ans: d) concave lens.

37. A student does the experiment on tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. He can get a correct measure of the angle of incidence and the angle of emergence by following the labelling indicated in figure:



- b) The reciprocal of its centre of curvature.
- d) Capacity to capture shorter distance.

Ans: d) IV

58. Tor the given ray d		•	e: n = refractive index)
	n, n ₂	n4 n3	
a) $n_1 = n_2$ and $n_3 > n_4$	b) $n_2 > n_1$ and $n_3 > n_4$	c) $n_1 = n_2$ and $n_3 < n_4$	d) $n_1 = n_2$ and $n_3 = n_4$
Ans: b) n ₂ > n ₁ and n ₃ >	n ₄		
39. The radius of curva	ture of a mirror is 20cm the fo	ocal length is	
a). 20cm	b). 10cm	c). 40cm	d). 5cm
Ans: a). 20cm			J .
40. You are given three the light will travel fast	e media A, B and C of refractiv	e index 1.33, 1.65 and 1.4	46. The medium in which
a) A	b) B c) C	d) equal in a	ll three media.
Ans: a) A			
*****	*****	****	****
1	0. ELEC	TRICI	ΤΥ
<u>1</u>	<u>0. ELEC</u>		TY
1. What is the amour	O.ELEC of current flowing throug nductor in 10 minutes is 300	h an electric press, if tl	
 What is the amour passing through a co 	nt of current flowing throug	h an electric press, if tl) C?	
 What is the amour passing through a co A. 30 A 	nt of current flowing throug	h an electric press, if tl D C? B. 0.3 A	
 What is the amoun passing through a condition A. 30 A C. 0.5 A 	nt of current flowing throug nductor in 10 minutes is 30 , the resistors	h an electric press, if tl D C? B. 0.3 A	
 What is the amour passing through a condition of the conditi	nt of current flowing throug nductor in 10 minutes is 30 , the resistors	h an electric press, if tl D C? B. 0.3 A D. 5 A	The amount of charge 3Ω
 What is the amour passing through a condition of the conditi	nt of current flowing throug nductor in 10 minutes is 30 , the resistors are in series n parallel and the combinati	h an electric press, if tl D C? B. 0.3 A D. 5 A	The amount of charge 3Ω

Answer: D. 3 Ω and 6 Ω are in parallel and the combination is in series with 9 Ω

3. When a current 'I' flows through a resistance 'R' for time't' the electrical energy spent is given by

A. IRt	B. I ² Rt
C. IR ² t Answer: B. I ² Rt	D. I ² R/t

4. A wire of resistance R_1 is cut into five equal pieces. These five pieces of wire are then connected in parallel. If the resultant resistance of this combination be R_2 , then the ratio R_1/R_2 is:

A. 1/25	B. 1/5

C. 5	D. 25
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Answer: D. 25

5. Which of the given is the SI Unit of Electric Current?

A. Ohm	B. Ampere
C. Volt	D. Faraday

Answer: B. Ampere



Answer: A. Live wire

7. The rate of flow of an electric charge is known as:

- A. Electric potential B. Electric conductance
- C. Electric current D. None of these

Answer: C. Electric current

8. The instrument used for measuring electric current is:

- A. Ammeter B. Galvanometer
- C. Voltmeter D. Potentiometer

Answer: A. Ammeter

8. The relation between potential difference (V) and current (I) is :

Α. V α Ι2	B. V α 1/I
C. V2 α Ι	D. VαΙ

Answer:D. V α I

9. Which of the given statements is not true, regarding the electrical set-up for the verification of Ohm's law:

A. The voltmeter is connected in parallel with the known resistance

- B. The ammeter is connected in series circuit
- C. The rheostat can only increase the resistance in electric circuit
- D. The single key is used to switch on/off the electric circuit

Answer:C. The rheostat can only increase the resistance in electric circuit

10. On which of the given resistance does not depend:

- A. Length of conductor B. Area of cross-section
- C. Temperature

Answer: D. Density

11. Which of the given statements is true regarding ammeter and voltmeter?

A. Ammeter is connected in series with the required device, Voltmeter in parallel

D. Density

- B. Both ammeter and voltmeter are connected in series with required device
- C. The voltmeter is connected in series with the device, Ammeter in parallel
- D. They can be connected in any way

Answer:A. Ammeter is connected in series with the required device, Voltmeter in parallel

12. 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
Answer:B. Rs. 24			
13. The commercial un	it of energy is:		
A. Watt	B. Watt-hour	C. Kilowatt-hour	D. Kilo-joule
Answer:C. Kilowatt-ho	ur		
14. An electric fuse wo			
A. Chemical effe	ect of current	B. Magnetic effect of cu	rrent
C. Lighting effec	t of current	D. Heating effect of curi	rent
Answer:D. Heating effe	ct of current		
15. A car headlight bull	o working on a 12 V	car battery draws a curr	ent of 0.5 A. The
resistance of the light b	oulb is:		
Α. 0.5 Ω	Β. 6 Ω	C. 12 Ω	D. 24 Ω
Answer:D. 24 Ω			
16. The resistivity of a	certain material is 0	.6 Ωm. The material is m	ost likely to be:
A. An insulator	B. A su	perconductor	
C. A conductor	D. A se	emiconductor	

Answer: D. A semiconductor

17. If the amount of electric charge passing through a conductor in 10 minutes is 300 C, the current flowing is:

A. 30 A B. 12.03 A C. 12.05 A D. 5.00 AM

Answer:C. 12.05 A

18. Keeping the potential difference constant, the resistance of a circuit is doubled. The current will become:

A. Double B. Half C. One-fourth D. Four times

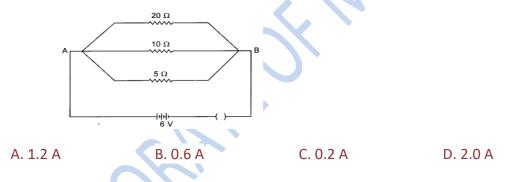
Answer:B. Half

19. Which of the following is not correctly matched?

(a) ______: An electric cell
 (b) ______: A resistor
 (c) _____(•) ____: Open plug key

Answer: C. Open plug key

20. Calculate the current flows through the 10 Ω resistor in the following circuit.



Answer:B. 0.6 A

21. A battery of 10 volt carries 20,000 C of charge through a resistance of 20 Ω . The work done in 10 seconds is

(a) 2×10^3 joule (b) 2×10^5 joule

(c) 2×10^4 joule (d) 2×10^2 joule

Answer: b

Explanation:

(b) W= qV= 20000 × 10 = 2,00, 000 = 2 × 105 J

(a) More length (b) less radius (c) less length (d) more radius

Answer: d

23. A cooler of 1500 supply. The rating of		of 500 W, 200 volt are to b	e used from a household	
(a) 2.5 A	(b) 5.0 A	(c) 7.5 A	(d) 10 A	
Answer: d				
24. The resistivity do	pes not change if			
(a) The material is changed		(b) The temperature is changed		
(c) The shape of the	resistor is changed	(d) both material and ten	(d) both material and temperature are changed	
Answer: c				
25. Coulomb is the S	il unit of:		o//	
(a) Charge	(b) current	(c) potential difference	(d) resistance	
Answer: a			9	
26. The heating elen	nent of an electric iron	is made up of:	•	
(a) Copper	(b) nichrome	(c) aluminium	(d) iron	
Answer: b		\sim		
27. The electrical re	sistance of insulators is	5		
(a) High	(b) low	(c) zero	(d) infinitely high	
Answer: d	QK.			
28. Electric power is	inversely proportional	to		
(a) Resistanc		-		
(c) current		mperature		
Answer: a				
	mercial unit of electric			
(a) Joules	(b) Kilojoules	(c) Kilowatt-hour	(d) Watt-hour	
Answer: c				
	lowing gases are filled i			
	1 (b) Neon and Argon	(c) Argon and Hydrogen	(d) Argon and Nitrogen	
Answer: d				
31. When electric cu	irrent is passed, electro	ons move from:		

(a) High potential to	low notential	(b) Low potential to	high notential	
(c) In the direction c	·		(b) Low potential to high potential.(d) Against the direction of the current.	
	on the current.	(d) Against the direc		
Answer: b				
32. Electrical resistivity of a				
(a) Its thickness	(b) its shape	(c) nature of the material	(d) its length	
Answer: c				
33. An electric bulb is conne of the bulb?	ected to a 220V	generator. The current is 0.5	0 A. What is the power	
(a) 440 W	(b) 110 W	(c) 55 W	(d) 0.0023 W	
Answer: b			κ	
(Here, V = 2	220 V, I = 0.50 A	, Power (P) = VI = 220 x 0.50 =	= 110 W)	
34. 1 kWh = J				
(a) 3.6 × 10 ⁻⁶ J (b) 1/	/3.6 × 10 ⁶ J	(c) $3.6 \times 10^6 \text{ J}$	(d) 13.6 × 10 ⁻⁶ J	
Answer: c		\mathcal{A}		
35. Two electric bulbs have consumed in them is in the		he ratio 1:2. If they are joined	d in series, the energy	
(a) 2:1	(b) 1:2	(c) 4:1	(d) 1:1	
Answer: (b) 1:2	$\mathcal{H}_{\mathcal{L}}$			
36. In the given figure, the	resistors		3Ω	
(a) 6 Ω , 3 Ω and 9 Ω are in s	eries		$ \land \$	
(b) 9 Ω and 6 Ω are in paral	lel and the coml	bination is in series with 3 Ω	0 12	
(c) 3 Ω , 6 Ω and 9 Ω are in parallel			9Ω	
(d) 3 Ω and 6 Ω are in parallel and the combination is in series with 9 Ω				
Answer: (d) 3 Ω and 6 Ω are	e in parallel and	the combination is in series v	vith 9 Ω	
37. What is the rate of flow	of electric char	ges called?		
(a) Electric potentia	al	(b) Electric conducta	ance	
(c) Electric current		(d) none of these		
Ans. (c) Electric current				

38. Which of the follo	wing is the SI Unit of Elec	ctric Current?	
(a) ohm	(b) ampere	(c) volt	(d) faraday
Ans: (b) ampere			
39. Which instrument	is used for measuring el	ectric potential?	
(a) Ammeter	(b) galvanometer	(c) voltmeter	(d) potentiometer
Ans: (c) voltmeter			C
	ectric charge moves fron ork done in joules is kno	n one point to another poi wn as?	nt in an electric circuit,
(a) Electric cu	rrent (b	o) electric resistance	
(c) Electric co	nductance (c	l) potential difference	κ
Ans: (d) potential diff	erence	<i>\\beta_i</i>	
41. The hindrance procurrent is known as:	esented by material of co	onductor to the smooth pa	issing of electric
(a) Resistance	(b) Conductance	(c) Inductance	(d) None of these
Ans: (a) Resistance		S'	
42. The resistance of	a conductor is directly p	roportional to:	
(a) Its area of	cross-section (b) densit	ty c) melting point	(d) length
Ans: (d) length	CK1		
43. The purpose of a	rheostat is:		
(a) Increase the magr	nitude of current only	(b) Decrease the ma	agnitude of current only
(c) Increase or decrea	ase the magnitude of cur	rent (d) none of these.	
Ans: (c) Increase or d	ecrease the magnitude o	of current	
*****	******	******	*****
		OF ELECTRIC	
-	around a current carryin the radius of the coil.	ng circular loop can be inc	reased by

- B. Converting the coil into straight wire.
- C. Decreasing the radius of the coil.
- D. Reducing the amount of electric current through the coil.

Ans: C

A. There is a uniform magnetic field around the solenoid,

- B. Magnetic field is same at all points inside the solenoid
- C. Solenoid produces circular magnetic field around it.
- D. Magnetic field varies at different points inside the solenoid.

Ans: B

3. Which of the given correctly describes the magnetic field near a long straight wire?

D. D.The field consists of concentric circles centred on the wire

Ans: D

- A. Oersted's experiment
- B. Right hand thumb rule

Ans: B

5. The presence of magnetic field at a point can be detected by:

- A. a Strong magnet
- B. a solenoid

Ans: C

6. A positively charged particle (alpha particle) projected towards west is deflected towards north by a magnetic field. The direction of magnetic field is

B. towards east

C. downward

D. into the page

D. momentum

D. upward

Ans: D

Ans: C

Ans: A

7. An electron enters a magnetic field at right angles to it as shown in the figure. The direction of force acting on the electron will be

A. to the right

B. to the left

8. Which of the following property of a proton doesn't change while it moves freely in a magnetic field?

C. velocity

A. Mass

9. The direction of induced current can be obtained by:

B. speed

- A. Fleming's left hand rule
- B. Right hand thumb rule

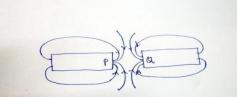
- C. Fleming's right hand rule
- D. Faraday experiment

В

Ans: C

- C. Flemings right hand ruleD. Fleming left hand rule
- ected by:
- C. a compass needle
- D. a current carrying wire

10. Observe the diagram.



The magnetic poles represented by P and Q respectively are

C. north (N) and north (N)

Ans: A

11. A domestic electric appliance requires alternating current of 15V. If 220V of alternating current is supplied to the house, then the device that helps in the functioning of that electric appliance is.

- A. induction coil
- B. step up transformer

- C. AC dynamo
- D. step down transformer

Ans: A

12. In Fleming's right hand rule, middle figure indicates the direction of:

- A. magnetic field
- B. induced electric current

- C. mechanical energy
- D. motion of the conductor

Ans: B

13. The magnetic field inside a long straight solenoid-carrying current

- A. is zero
- B. decreases as we move towards its end
- C. increases as we move towards its end
- D. is the same at all points

Ans: D

14. Which of the following property of a proton can change while it moves freely in a magnetic field? (There may be more than one correct answer.)

C. velocity

A. mass B. Speed

D. Momentum

Ans: C&D

15. A positively-charged particle (alpha-particle) projected towards west is deflected towards north by a magnetic field. The direction of magnetic field is

B. towards east

- C. downward
- D. upward

Ans: D

16. A rectangular coil of copper wires is rotated in a magnetic field. The direction of the induced current changes once in each

- A. two revolutions
- B. one revolution

- C. half revolution
- D. one- fourth revolution

Ans: C

17. Which of the following correctly describes the magnetic field near a long straight wire?

D. The field consists of concentric circles centered on the wire

Ans: D

18. The phenomenon of electromagnetic induction is

- A. the process of charging a body
- B. the process of generating magnetic field due to a current passing through a coil
- C. producing induced current in a coil due to relative motion between a magnet and the coil
- D. the process of rotating a coil of an electric motor

Ans: C

19. The device used for producing electric current is called a

A. generator

B. galvanometer

D. Motor

Ans: D

20. The essential difference between an AC generator and a DC generator is that

- A. AC generator has an electromagnet while a DC generator has permanent magnet.
- B. DC generator will generate a higher voltage.
- C. AC generator will generate a higher voltage.
- D. AC generator has slip rings while the DC generator has a commutator.

Ans: D

21. At the time of short circuit, the current in the circuit

- A. reduces substantially
- B. does not change

C. increases heavily

C. ammeter

D. vary continuously

Ans: C

B. Originate from the North pole and end at its East Pole

Ans: C

23. The north pole of Earth's magnet is in the:

B. Geographical East

- C. Geographical West
- D. Geographical North

Ans: A

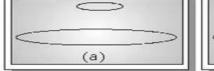
24. A soft iron bar is inserted inside a current-carrying solenoid. The magnetic field inside the solenoid:

- A. Will decrease
- B. Will increase

- C. Will become zero
- D. Will remain the same

Ans: B

25. A current carrying conductor is held in exactly vertical direction. In order to produce a clockwise magnetic field around the conductor, the current should be passed in the conductor: A. From top to bottom C. From bottom to top B. From left to right D. From right to left
A. 45° B. 60° C.90° D.180° Ans: D
 A. The speed with which the magnet is moved B. The number of turns of the coil C. The resistivity of the wire of the coil D. The strength of the magnet
 A. Anticlockwise direction B. Vertically upward direction Ans: A
 29. A fuse should always be placed in the A. Live wire of the main circuit C. Earth wire of the main circuit Ans: A B. Neutral wire of the main circuit D. Bothe live and neutral wire of the main circuit.
30. If two circular coils can be arranged in any of the three situations as shown in the diagrams below, then their mutual induction will be:
30. If two circular coils can be arranged in any of the three situations as shown in the diagrams



A. Maximum in situation aB. Maximum in situation b

(b)



- C. Maximum in situation c
- D. The same in all situations

Ans: A

31. A coil of insulated copper wire is connected to a galvanometer forming a loop and a magnet is:

C. B and C only

- A: Held stationary
- B: Moved away along its axis
- C: Moved towards along its axis
- D: There will be a induced current in:

A. only A

B. A and B only

D. A, B and C

Ans: C

Ans: B

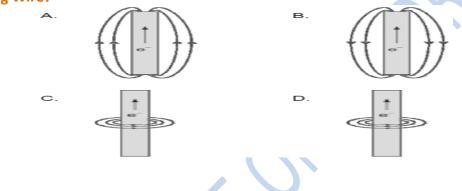
33. An electric motor is a device which transforms

- A. Mechanical energy into electrical energy
- C. Kinetic energy into potential energy
- B. Electrical energy into mechanical energy
- D. Electrical energy into Potential energy

Ans: B

Ans: D

34. Which of the following diagrams correctly shows the magnetic field produced by a currentcarrying Wire?

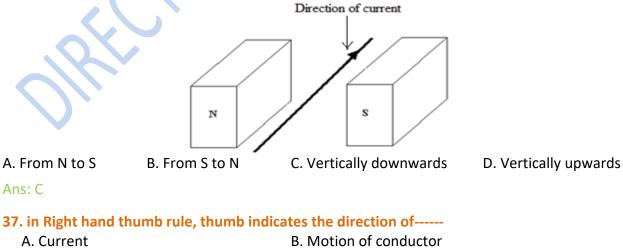


35. The frequency of electricity produced by DC generator is equal to

A. 0 Hz	B.50 Hz	C.100 Hz	D.200 Hz
Ans: A			

36. A current flows in a wire running between the S and N poles of a magnet lying horizontally as shown in the figure below:

The force on the wire due to the magnet is directed:



C. Magnetic force

B. Motion of conductor D. Mechanical force

Ans: B

38. How can you increase the strength of magnetic field around a current carrying conductor?

- A. By increasing the strength of current through the conductor.
- B. By decreasing the length of the conductor
- C. By decreasing the strength of current through the conductor.
- D. By using conductor of high resistance.

Ans: A

39. As we move away from a current carrying conductor the strength of magnetic field

- A. decreases
- B. increases

- C. remains the same
- D. depends on length of the conductor

- Ans: A
 - C. Concentric circles perpendicular to the plane of conductor

B. A>B>C>D

D. Concentric circles in the plane of conductor.

Ans: C

41. Referring the figure given below, which of the following is correct regarding magnetic field at various points?

A. A=C=D >B

C. A=C < D < B

C. thumb

D. little finger

D.A = C > D > B

Ans: D

- A. fore finger
- B. middle finger

Ans: C

43. Select the correct use of solenoid.

- A. To produce uniform magnetic field.
- B. To magnetize a piece of magnetic material.
- C. to change the direction motion of a beam of electrons
- D. All the above.

```
Ans: D
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A. Towards north

- C. Towards east
- D. towards west

Ans: B

45. Select the correct diagram

(a)
$$(\bigcirc N)$$
 (b) $(\bigcirc S)$ (c) $(\bigcirc N)$ (d) $(\bigcirc S)$ (d) $($ (d) $(\bigcirc S)$ (d) $($ (

Ans: C

46. According to the diagram direction of flow of electrons in the conductor AB is

- A. A to B
- B. B to A
- C. Clockwise around AB
- D. Anticlockwise around AB

Ans: B

47. The rule which gives the direction of magnetic field around a current carrying Conductor is

- A. Left hand thumb rule
- B. Right Hand Thumb Rule
- C. Fleming's Left hand rule
- D. Fleming's Right hand rule

Ans: B

48. Which are the following are Commutators

- A. Split rings
- B. Brushes

Ans: A

49. The direction of current changes in every

- A. 1 revolution
- B. 2 revolution

- C. Half revolution
- D. 4 revolution

C. Axel

D. Magnets

Ans: C

50. In left hand thumb rule direction of current is indicated by

A. Fore finger B. Middle finger C. Thumb D. None of the above

Ans: B

12. SOURCES OF ENERGY

1) Energy equivalent of one a.m.u is

a)2.29MeV b)15MeV c)931MeV d)96MeV

Ans: c. 931MeV

2) A quarter of our energy requirement in India is met by

a) Hydro power plant

b) Thermal power plant

c) Geothermal power plant d) none of the above

Ans: a) Hydro power plant

3). Correct sequence of energy conversion in wind mill is

a)mechanical energy--->wind energy-->electric energy

b) Wind energy-->mechanical energy-->electric energy

c) Mechanical energy-->electric energy-->wind energy

d)electric energy-->wind energy-->mechanical energy

Ans:b) wind energy-->mechanical energy-->electric energy

4) Ocean thermal energy is due to

a) Number of minerals is more

c)Temperature difference at different levels in the ocean

d)Pressure difference at different levels in the ocean

ans: c)Temperature difference at different levels in the ocean

5) which country is famous as "Country of winds"

a) India	b

o) Denmark 🔷 c) Newzealand

d) West indies

c) Less electricity produces

d) Damage in turbine

Ans: b) Denmark

a) It contains up to 75% of methane

c) Leaves residue like ash in wood & charcoal

Ans: c) Leaves residue like ash in wood and charcoal

7) If we increase the height of the water reservoir, what will happen?

- a) Hindrance in water movement
- b) More electricity produces

d) Heating capacity is high

Ans:b) more electricity produces.

- a) They are pollution free
- b) They are abundant

c) They are also called as inexhaustible

d) Petrol is also renewable source of energy

Ans: d) petrol is also renewable source of energy		
9). the process by which energy is produced in the sun is		
a) Nuclear fusion b) Nuclear fission c) both a & b	d) combustion of hydrogen	
Ans: a) nuclear fusion		
10) Quality of fuel is measured by		
a) initial value b) combustion value c) Calorific value	d) none of the above	
Ans: c) Calorific value	5	
11) Full form of OTEC		
a) Ocean thermal energy conversion b) Ocean thermal energy	/ combination	
c) Ocean technical energy conversion d) Ocean technical energy	gy combination	
Ans: a) Ocean thermal energy conversion plant	\mathbf{O} .	
12) Minimum speed of wind to run a windmill		
a) 5km) h b) 15km/h c) 25km/h	d) 35km/h	
Ans: a) 15km/h		
13) Wind energy is used to		
i) Produce electricity		
ii) Draw underground water		
iii) Operate water pumps		
Among these which is/are correct.		
a)Iⅈ b)i&iii c)ii d)i,ii,iii		
Ans:d)i,ii,iii		
14) Ultimate source of energy is		
a) Water b) air c) forest	d)sun	
Ans: d) sun		
15) Bio-gas is produced from bio- mass by		
a) Destructive distillation b) Fractional distillation		
c) Evaporation d) anaerobic fermentati	on	
Ans: d) anaerobic fermentation		

16). If we lit a candle, there is heat and light. It is

a) Exothermic b) Endothermic c) galvanization

b) Oxygen and Carbon dioxide

d) Oxygen and magnesium

d) none of the above

Ans : a) Exothermic

17) Spent slurry is rich in

- a) Nitrogen and phosphorus
- c) Magnesium and carbon dioxide
- Ans: a) Nitrogen and phosphorus

18) There are 4 fuels which all contain only carbon and hydrogen, the fuel having highe calorific value will be one which has:

a)less of carbon as well as less of hydrogen

b) more of carbon but less of hydrogen

c)equal proportions of carbon & hydrogen

d) less of carbon but more of hydrogen

Ans: d) less of carbon but more of hydrogen

19) The power generated in a wind mill

- a) Is more in winter season b) is more in rainy season
- c) Depends on the height of the tower
- d) depends on wind velocity

Ans: d) depends on wind velocity

20) the most used nuclear fuel in the world is

a) plutonium-239 b) Uranium-235 C) Uranium-238 d) Thorium-232

Ans: b) Uranium- 235

a) Steam b) Ore c) Mercury d) None of the above

Ans: a) Steam

22) Expanded form of CNG is

b) Common natural gas a) Compressed Natural gas c) Compressed national gas

d) Controlled natural gas

Ans:- a) Compressed Natural Gas

23) Wind intensity ca	n be described by		
a) Avogadro number		b) Reynolds number	
c) Mach numb	er	d) Beaufort number	
Ans: d) Beaufort num	ber		
24) Hydro power plar	nts are located		
a) Plane area	b) Desert	c) Hilly area	d) none of the above
Ans: c) Hilly area			
25) The optimum valu	ue of pH inside the dig	gester for the biodegra	dation process
a) 2-3	b) 4.6- 4.8	c) 6.5 to 8	d) 9-10
Ans:- c) 6.5 to 8			U_{L}
26) Which of the follo	owing is not an examp	le of bio- mass energy	source?
a) coal	b) gobar gas	c) wood d) nucl	ear energy
Ans: d) nuclear energy	/	14	
27) This is not an exa	mple for renewable e	nergy	
a) Solar energy		c) Ocean energy d) na	atural gas
Ans: d) natural gas			U
28) The minimum temperature difference required between surface water at depth of upto			
2km in an ocean ther			
a) 10°C	b) 20°C c) 30)°C d) 40°C	
Ans:- b) 20°C			
29) Tidal power plant	consists of:		
a) Power hous	e	b) dam or barrage	
c) Sluice ways	and gates	d)all the above	
Ans: d) all the above			
30) The blades in wind turbines are connected to			
a) string	b) tower	c) foundation	d) nacelle
Ans- d) nacelle			

31) What type of energy derived from heated ground water

a) Geothermal energy b) tidal energy

c) wind energy

d) solar energy

Ans: a) geothermal energy

32) Good Source of energy should be

a)easily accessible b)easy to store and transport

c) be economical d)all the above

Ans: d) all the above

33)The largest Component of bio- gas is

a)butane b)methane c)Carbon di oxide d)Nitrogen

Ans: b) methane

34) Statement: charcoal is considered to be a better fuel than wood

Reasons:

- i) charcoal has higher calorific value
- Ii) charcoal is comparatively smoke less

Which reason/s justify the statement

a) i b) ii c) ii & iii d) I,ii,iii

Ans: d) I,ii,iii

35) In a Hydro power plant:

a) Water is converted into steam to produce electricity

b) Electricity is extracted from water

- c) Kinetic energy possessed by stored water is converted into potential energy
- d) Potential energy possessed by stored water is converted into electricity

Ans: d) Potential energy possessed by stored water is converted into electricity

36) The disposal of wastes produced in a nuclear power plant is a big problem. Because

a) Highly inflammable b)

b) highly reactive

c) Bad smell

d) too light

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Ans: b) highly radioactive

37) Constructing dams over rivers. It helps

- a) to generate hydro electricity
- c) to control floods over river
- b)to irrigate agriculture land
- d) all the above

Ans: d) all the above

38) Which of the following is more environment friendly

- a)burning of kerosene b) burning of coal
- c) Burning if charcoal d) burning of petrol

Ans: c) burning of charcoal

- **39)** The inner wall of the solar cooker is painted black because
 - a) Prevents from rusting b) reflects light
 - c) Absorbs more heat d) none of the above
- Ans: c) absorbs more heat
- 40) Gas which is present in both bio-gas and natural gas
 - a) methane b) sulphur dioxide c) Oxygen d) carbon monoxide

Ans: a) methane

13. OUR ENVIRONMENT

1. Disposable plastics plates should not be used because ------

- A. they are made up of light weight material
- B. They are made of toxic materials
- C. they are made up of biodegradable materials
- D. they are made up of non biodegradable materials

Ans :D

2. Which of the following groups contain only biodegradable items?

- A. grass, flowers, leather
- B. grass, wood, plastics

C. fruit peels, cake and lime juice D. cake, wood, grass

Ans :A,C and D

3. Which is incorrect:

A. all green plants and blue green algae are producers

- B. green plants get their food from organic compounds
- C. producers prepare food from inorganic substances
- D. plants convert solar energy to chemical energy

Ans:B

Ans :A

5. The excessive exposure of humans to UV rays results in :

- A. damage immune system
- B. skin cancer

C. peptic ulcers

D. damage to lungs

Ans :B

6. The decomposers in ecosystem:

- A. convert inorganic materials to simpler forms
- B. convert organic material to inorganic forms
- C. do not breakdown organic compounds
- D. None

Ans :B

7. Which of the following are environment friendly practices?

- A. carrying cloth bags to put purchases in while shopping
- B. switching off unnecessary lights and fans
- C. walking to school instead of getting your mother to drop you on her scooter
- D. All

Ans :D

8. Accumulation of non-biodegradable pesticides in the food chain, in increasing amount at each higher trophic level is known as _____

A. Eutrophication C. biomagnifications D. Accumulation B. pollution Ans:C 9. Which of the following is biodegradable waste? C Plastic hag

A. DD1	C. I lastic bag
B. Aluminium can	D. Cow dung

ANS: D

10. Which of the following is the best way for disposal of vegetable and fruit peels?

A. Landfill B. Recycling C. Composting

Answer: C

- D. Burning

11. The problem caused due to ozone hole isA. earthquakesB. damage due to UV radiationsAnswer:B	C. chemical pollution D. acid rain
 12. Organisms which synthesise carbohydrates f are called A. decomposers B. producers 	rom inorganic compounds using radiant energy C. herbivores D. carnivores
Answer:B	
13.Excessive exposure of humans to UV-rays res (i) damage to immune system (ii) damage to lungs (iii) skin cancer (iv) peptic ulcers	
A. (i) and (ii) B.(ii) and (iv) C. (i Answer:C) and (iii) D. (iii) and (iv)
14. When is the world environment day celebratA.16 JuneB. 5 DecemberC. 5	ed? June D. 5 July
Answer:C	5
Answer:B	
16. Which of these organisms are the most important of the se organisms are the most important of the second seco	ortant decomposers in an ecosystem? C. Algae and bacteria D. Bacteria and virus
17. Which of the following is a biodegradable suA. GlassB. PlantsC. PlasticsAns: B.	<mark>bstance?</mark> D. Polythene
18 is not a biodegradable pollutant. A. Paper B. Cotton cloth C. C Ans: D. DDT	otton D. DDT
19. The formula of Ozone is A. O ₃ B. O ₂ C. O ₄ Ans: A. O ₃	D. O ₆
20. The number of atoms of oxygen present in o A. 3 B. 2 C. 5 Ans: A. 3	zone is D. 6

21. Which of the followi A. Wool	ng is non- biodegradab B. Nylon	l <mark>e?</mark> C. Animal bo	ones	D. Tea leaves
Answer: B				
22. Which one of the fol A. Mango seed	lowing will undergo fas B. Wood		tion? ango peel	D. Mango pulp
Answer:D				
23. Acid rain is caused b A. Carbon B.		sulphur only	D. sulphur ar	nd nitrogen
Answer:D				
24. Which of the followi (a) Carbon tetrac (b) Methane	U	(c) (one layer? Chloro fluoro cai Carbon monoxic	
Answer:C				
25.The materials that ch	ange slowly their form	and nature are		
Ans: D. plant fibre		<i>K</i>)		
B. harm various C. increase the d	nt with respect to biod n the environment for a organisms in the ecosys ensity of harmful chem cling naturally in the en	a long time stem nicals in different		e following is ;
27.Ozone layer is essent A.infrared radiations Ans:D		most of the Solar radiations	D.ultraviolet	radiations
28.Which of the followin A.Cow dung B. Ans:C		e waste? Plastic	D.kitchen wa	iste
29. We should reduce the factor of the should reduce the should re			cause: made of toxic i	materials
(b) They are non-biodeg	radable	(d) They rea	act with the atm	nospheric gases
Answer: (b) They are no	on-biodegradable			
30. Among the following i. Wood, paper, I		ition which conta	ins only biodegr	radable items?

ii. Paper, seeds, detergent,	
iii. Paper, animal excreta, wood	
iv. Wool, leaves, paper	
(a) (i), (ii) and (iii)	(c) (ii), (iii) and (iv)
(b) (i) and (iii)	(d) (iii) and (iv)
Answer: (d) (iii) and (iv)	
31. Which of the following may be a conclusion of the ultraviolet rays?	ne excessive exposure of humans to sun's
i. Peptic ulcers	
ii. Eye disease like cataract	
iii. Damage to lungs	
iv. Skin cancer	
(a) (i) and (iv)	(c) (ii) and (iv)
(b) (ii), (iii) and (iv)	(d) Only (iv)
Answer: (c) (ii) and (iv)	
32. Which among the following is a correct full form	for DDT?
(a) Dichloro diphenyl tri chloro ethane	(c) Dichloro deca phenyl tri chloro ethane
(b) Dichloro diphenyl tetra chloro ethane	(d) Dichloro diethyl tri chloro ethane
Answer: (a) Dichloro di phenyl tri chloro ethane	
33. Which of the following radiations is responsible ozone?	for the conversion of atmospheric oxygen to
(a) Gamma radiations	(c) Infrared radiations
(b) Cosmic radiations	(d) Ultraviolet radiations
Answer: (d) Ultraviolet radiations	
\mathbf{v}	
(a) Waste paper	(c) Human and animal excreta
(b) Fruit and vegetable peels	(d) Plastic bags
Answer: (d) Plastic bags	
35. Global warming is a phenomenon related to:	
(a) Evaporation	(b) Ecological balance

(c) Greenhouse effect

Answer: c

36. The constituents which do not form eco-system are

- A. Biotic constituents
- B. Plastic bags

Ans :B

37. The functional unit of environment is

- A. Ecosystem
- B. Nitrogen

Ans:A

38. Which of the following is an not example of abiotic factors?

- A. Light
- B. Plants

Ans:B

39.An ecosystem includes

- (a) all living organisms
- (b) non-living objects
- (c) both living organisms and non-living objects
- (d) sometimes living organisms and sometimes non-living objects

Answer: (c)

40.In an ecosystem, the 10% of energy available for transfer from one trophic level to the next is in the form of

(a) heat energy (b) light energy

Answer: (c)

(c) chemical energy(d) mechanical energy

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14. SUSTAINABLE MANAGEMENT OF NATURAL RESOURCES MULTIPLE CHOICE QUESTIONS

1. Which of the following is/ are not the consequence/consequences of building high-rise dams?

i. Loss of biodiversity

- ii. Depletion of the natural habitats of wild animals
- iii. Soil erosion leading to the infertility of land

iv. Fall in the groundwater level

Choose the correct option from the following:

(a) (i) and (iv) (b) (ii) and (iii) Answers: (c) (iii) and (iv) (c) (iii) and (iv) (d) (ii) and (iv)

2. Which of the following activities will prove to be effective in preventing floods? i. Removing the topsoil

C. Heat

C. Carbon

D. Oxygen

D. Temperature

- C. Abiotic constituents
- D. All of these

(d) Desertification

ii. Afforestation
iii. Construction of dams
iv. Cutting of trees
Choose the correct option from the following:
(a) (i) and (iv)
(b) (ii) and (iii)
(c) (iii) and (iv)
(d) (ii) and (iv)
Answer: (b) (ii) and (iii)

3. Which among the following was a message conveyed by the 'Chipko Movement'?

(a) To promote more and more developmental projects

(b) To involve the community in forest conservation efforts

(c) To ignore the forest conservation efforts in sake of development

(d) None of these

Answer: (b)

4. The quality of environment can be improved by-

(a) Deforestation

(c) Erosion

(b) Overuse of natural environment

(d) Conservation

Answer: (d)

5. Which among the following is an eco-friendly activity?

(a) Making use of automobiles

- (b) Making use of poly bags for shopping
- (c) Making use of dyes for colouring the clothes
- (d) Making windmill to generate power for irrigation

Answer: (d)

6. Which of the following does not lead to the depletion of groundwater?

- (a) Establishing thermal power plants
- (b) Cultivation of high yielding varieties of crops
- (c) Process of deforestation
- (d) Process of afforestation

Answer: (d)

7. Government launched the 'Ganga Action Plan' (GAP) project in 1985. The main purpose of this project was to:

- (a) Build new dams over the Ganga river
- (b) Make its water pollution free
- (c) Utilise the river water for irrigation purposes
- (d) Promote the growth of water animals like fish, in the river

Answer: (b)

8. Which among the following factors help in confirming the contamination of river water?

- i. Measurement of pH of river water
- ii. Presence of chlorine in river water
- iii. Existence of diverse life forms in river water
- iv. Presence of coliform bacteria in river water

Choose the correct option from the following:

(a) (i) and (iv) (b) (ii) and (iii) (c) (iii) and (iv)

(d) (ii) and (iv)

	ng choose the correct of useful for conserving te, reuse	our natural resources	euse, redistribute	
10. Who started chipko andalon?(a) A. K. Banerjee(c) Sundar lal Bahuguna(b) Amrita devi bisnoy(d) Medha patkarAnswer: (c)(d) Medha patkar		-		
11. Sardar Sarovar Da (a) Ganga Answer: (b)	im is situated on river: (b) Narmada	(c) Yamuna	(d) Godavari	
12. Which among the forests?(a) AgricultureAnswer: (c)	following is a major p (b) Tissue culture	rogramme that was st (c) Silviculture	arted to replenish the dama (d) Horticulture	ged
 13. In our country, there are attempts to increase the height of several existing dams like Tehri and Almati dams across the Narmada. Choose the correct statements among the following that are a consequence of raising the height of dams Terrestrial flora and fauna of the area is destroyed completely Dislocation of people and domestic animals living in the area Valuable agricultural land may be permanently lost It will generate permanent employment for people Choose the correct option from the following: (a) (i) and (ii) (b) (i), (ii) and (iii) (c) (ii) and (iv) (d) (i) (iii) and (iv) 				
the concept of biodiv i. Biodiversity ii. Biodiversity iii. Biodiversity	a few statements relate ersity refers to the different refers to only the flor y is greater in a forest	species of flora and fa a of a given area	those that correctly describ una present in an area a particular species living in	

area

Choose the correct option from the following:

(a) (i) and (ii) (b) (ii) and (iv) (c) (i) and (iii) (d) (ii) and (iii) Answer: (c) (i) and (iii)

15. Which among the statements given below is incorrect?

(a) Sustainable development does not take into consideration the viewpoints of all stakeholders

- (b) Sustainable development is a long planned and persistent development
- (c) Economic development is linked to environmental development

(d) Sustainable development meets the current basic human needs along with preserving resources for future generations

Answer: (a)		
 16. Ancient water harvesting system of Karnataka is a) Khadin b) nadis c) kulhs d) kattas Ans d) kattas 		
 17. Large scale deforestation decrease a) soil erosion b) rainfall c) Drought d) Global warming. Ans b) Rainfall. 		
 18. Now a days government has banned the use of polythene bags and is initiating to use paper bags because, a) It is costly b) It is biodegradable c) It is non biodegradable d) It is lighter. Ans b) it is biodegradable. 		
19. Bandharas and tals are the ancient water harvesting methods in a) Madhya Pradeshb) Maharashtrac) Karnatakad) Kerala.Ans b) Maharashtra.		
 20. The chipkomovement started from a) Reni in Garhwal b) Arabari forest c) khejrali village d) village of Mandal. Ans a) Reni in Garhwal. 		
 21. By constructing khadin check dams in level terrains, a) underground water level decreases b) underground water level increases c) vegetation in the nearby areas are destroyed due to excess moisture. d) underground water gets polluted. Ans: b) underground water level increases. 		
22. The scientific method to conserve soil and water is a) Construction of dams c) Rainwater harvestingb) Watershed managementc) Rainwater harvesting Ans b) Watershed management.d) Afforestation		
 23. Sustainable management should be become mandatory as a) Natural resources are limited b) Natural resources lasts for a longer period c) Future generation may not enjoy the benefits of natural resources d) all the above. Ans d) All the above. 		
 24. Earthen pot with cracks can be used to grow plants. This is based on this 5R principle a) Refuse b) Re use c) Re purpose d) Re cycling Ans d) Re purpose 		
 25. Bishnois community sacrificed their life for the protection of a) Teak trees b) Sal forest c) khejri trees d) Sandalwood trees. Ans c) Khejri trees. 		

 26. A woman who fought for the protection a) Medhapatkar C)SaalumaradaThimmakka. Ans b) Amrita Devi Bishnoi 27.Which of the following is best method for 	b) Amrita Devi Bishnoi.d) DurgaBanerjee .from environment point of view?	
a. Reduce b. Recycle Ans:d	c. Reuse d. All of above	
30. Water harvesting is a method which a. Increase ground water level b. Not practiced in modern days ans:A	c. Has no relation with ground water d. Decrease ground water level	
 31. The eco-friendly practice among the following a) using plastic plates in weddings b) bringing things in plastics covers c) separating daily wastes into recyclable and decomposing materials d) throwing plastic wastes in our surrounding Answer:C 		
32.Stake holders of forest are a) Nature enthusiasts b) Local people c) Industrial and forest department of government d) all of these Answer: d		
33. The pH range most conducive for life of fresh water plants and animals is a)6.5 to 7.5 b)2,5 to 3.5 c)5.5 to 6.5 d)1.5 to 2.5 ans: a)6.5 to 7.5		
 34. The concept of sustainable development encourages a)growth that meet current basic needs b)growth to meet the needs of present and future generations c)massive economic development using natural resources d)massive expansion of agriculture ,infrastructure and industries ans: b)growth to meet the needs of present and future generations 		
35. The problem of construction of dams is		
b)swallow up huge amount of publ	ic money	

b)swallow up huge amount of public moneyc.leads to deforestation and loss of biodiversityd.All of the above

Ans:d

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