

ಬೆಂಗಳೂರು ಗ್ರಾಮಾಂತರ ಜಲ್ಲಾ ಪಂಚಾಯತ್

ಸಾರ್ವಜನಿಕ ಶಿಕ್ಷಣ ಇಲಾಖೆ

<mark>ಉಪನಿರ್ದೇಶಕರ ಕ</mark>ಛೇಲಿ (ಅಡಆತ). ಬೆಂಗಳೂರು ಗ್ರಾಮಾಂತರ ಜಲ್ಲೆ



ಬಹುಆಯ್ಕೆ ಮಾದಲಿ ಪ್ರಶ್ನೆಗಳು

ಎಸ್.ಎಸ್.ಎಲ್.ಸಿ 2020-21

ವಿಜ್ಞಾನ

(ಆಂಗ್ಲ ಮಾಧ್ಯಮ)



SCIENCE MCQ QUESTION BANK (EM)

PHYSICS: ELECTRICITY

- 1. SI Unit of electric current is
 - B. ampere C,ohm meter D.ohm A. volt
- 2. The property of the material which obstruct the flow of current is
 - A. electric power
- B. resistance
- C. electrical potential
- D. potential difference
- 3. one watt an electric current can also be represented as
 - A. 1J/1C
- B.1C/1s
- C.1C/1J
- D.1J/1s
- 4. Formula which in a presents Joule's law of heating effect
 - A. H = IRt B. $H = IR^2t$
- C. $H = IRt^2$ D. $H = I^2Rt$
- 5. The property of the fuse wire is
 - A. having low resistance
 - B. having high resistance
 - C. having high resistance and low melting point having
 - D. high resistance and high melting point
- 6. The rate of current drawn from the bulb having the power 440W which is connected to 220V circuit is.
 - A. 2A
- B.3A
- C.4A
- D..5A
- 7. Total resistance of the registers having 15 ohm each which are connected in series is
 - A. 40Ω
- B. $50\,\Omega$
- $C_{60}\Omega$
- D $100\,\Omega$
- 8. Name the instrument which is used in electrical circuit
 - A. Bulb
- B Fuse
- C. Ammeter
- D. Rheostat



- 9. Which of the following is measured by using an ammeter?
 - A. Electric power
- B. potential difference C. electric current D. Resistance

10. Which of t	ne following is the unit	of power?		
A. Vol	B. Kilowatt hour	C. Joule	D.Newton me	ter
	ne following is constanter B. Current C.			istance
12. A device u	sed to change the resist	tance in an electr	ric circuit is	
A. ammete	B. rheostat C. s	galvanometer	D. voltmeter	
it dr A. 15Ω	aws a current of 4A fro B. 240Ω	om the source. Tl C. 24		electric heater coil i D. 64Ω
14. SI Unit of 6 A.volt	electric resistance is B. ampere C,ol	nm meter D.ohm	ı	
		B. area of cro D. nature of	oss section of c	onductor
16. 'WATT' is A. electric	an SI unit of current B. electric cha	arge C. electric p	otential differe	nce D. electric power
	oulb is connected to a 2 OA. The power of the b	_	If the current fl	owing in the
A. 44W	B. 1100W)W	D. 220W
A. reverse B. measu C. protect	on of ammeter in an election of the cres rate of electric currents electrical appliances res the potential different	eurrent ent	t	
A. resista B. conduc C. meltin	etrical resistivity of a sunce decreases etivity increases g point decreases nee increases	ubstance increase	es	

20. Formula used to calculate resistance is

A. P=VI

B. R = V/I

C. R=I/V

D. I = R/V

21. SI Unit of Resistivity is

A. volt

B.. ampere

C,ohm meter

D.ohm

22. SI Unit of electric current is

A.volt

B. ampere

C,ohm meter

D.ohm

23. Resistance of a conductor decreases with

A. increase in length

B. decrease in area of cross section

C. increase in area of cross section. D. increase in temperature.

24. Product of potential difference and current gives

A. Current

B. Potential difference

C. Resistance D. power.

Qn	Ans										
no											
1	В	5	С	9	С	13	A	17	С	21	С
2	В	6	В	10	В	14	D	18	В	22	В
3	D	7	С	11	В	15	С	19	D	23	С
4	D	8	A	12	В	16	D	20	В	24	D

MAGNETIC EFFECTS OF ELECTRIC CURRENT

Four alternates are given to each question. Choose the correct answer.

A. current passes through soft iron make short circuit

C. soft iron convert as permanent magnet

D. There are no changes in soft iron

2)In an electric motor which one acts as	commutator
A. split rings	B. brushes
C.armature	D. solenoid
3) In an electric circuit to avoid overload	and short circuit we use
A. Fuse	B. volt meter
C. ammeter	D. rheostat
4) The device that convert mechanical en	nergy to electric energy is called
A. cell	B. motor
C. generator	D. solar cell
5)an electric motors work on the basis of	f
A) Fleming right hand rule	B) Fleming left hand rule
C) Fleming thumb rule	D) All the above
6) An electric generator work on the basis	is of
A) Fleming right hand rule	B) Fleming left hand rule
C) Fleming thumb rule	D. Newtons law
7)A device that reverse the direction of f	low of current through a circuit is
A) split rings	B)brushes
C)commutator	D) solenoid
8) the coil is wound on soft iron core is c	ealled
A. commutator B) split ring	s c) armature D) solenoid
9) The magnetic fields inside a long strain	ight solenoid carrying current is
A)the same at all points	B) is zero
C)decreases as we move towards	its end D.increase as we move towards its end
10) the magnetic field produced by a cur	rent-carrying wire at a given point depends
A) not depend the current passing	through it
B) directly on the current passing	through it.
C) inversely on the current passin	g through it .
D) b and c both are correct	

11) col	our of live	e wire in	domestic el	ectric circ	cuit is		
	A) red	B) yel	low C) blue	D) green		
12) in d	lomestic e	electric ci	rcuit the p	otential d	ifference betwe	een live wire and n	eutral wire is
	A) 220 vo	olts	B) 1000 v	olts	C) 110 volts	D) 440 volts	
,	straight w		ig correctly	describes	s the magnetic	field near a long	
14) The	e unit of m	nagnetic	field streng	th is			
A)H	Hertz	B)À vol	ts C).	Ampere	D) oersted		
16) 2)A	n electroi	n enters a	magnetic 1	field at rig	ght angles to it,	as shown in Fig	The direction of
į	force actir	ng on the	electron wi	ill be			
	A. to the r	right	—	magnet	ic field		
]	B. to the le	eft. –	—				
]	D. into the	e page.					
17) A p	ositively	charged j	particles (al	pha partic	cle)projected t	owards west is def	lected towards

north by magnetic field .The direction of magnetic field is

18) A rectangular coil of copper v	wires is rotate	ed in a magnetic fi	eld . The direction of induced				
current changes once in ea	ch						
A) two revolutions		B)one revolution	1				
C)half revolution		D)one –fourth re	evolution				
19) The essential difference betw	een an AC ge	enerator and a DC	generator is that				
A. AC generator has an ele	ectromagnet v	while a DC genera	tor has permanent magnet.				
B. DC generator will gene	rate a higher	voltage.					
C. AC generator will gene	rate a higher	voltage.					
D. AC generator has slip r	ings while the	e DC generator has	s a commutator				
20). When Overloading can occur	r In such a sit	uation					
A. the current in the circui	t abruptly dec	creases.					
B. no changes in circuit							
C. the current in the circuit	t abruptly inc	reases.					
D. the current in the circui	t changes reg	ularly.					
21)The device that convert electric	ic energy to n	nechanical energy	is called				
A)cell B)Motor	C)	generator	D)solarcell				
22)The rule which indicates the n	nagnetic field	in a current carry	ing straight conductor is				
A) Right hand thumb rule							
B) Fleming's Left –hand 1	rule						
C) Fleming's right -hand i	rule						
D) Screw rule	D) Screw rule						
23) An alloy wire with a low melting point is attached to a ceramic device is							
A) Switch B) Bulb	C) Fuse	D) Tube light					
24) The potential of a neutral wire	e is						

- ועעו (ע A) ZZU V R)U V C) 44U V
- 25) The current which changes its direction in equal intervals of time is
 - A) Alternative current
- B) Direct current
- C) Static current
- D) Eddy currents

ANSWER

Qn no	Ans										
1	В	5	В	9	A	13	A	17	D	21	В
2	A	6	A	10	В	14	D	18	С	22	A
3	A	7	С	11	A	15	A	19	С	23	С
4	С	8	С	12	A	16	D	20	С	24	В

25.A

LIGHT: REFRACTION.

Four alternates are given to each question. Choose the correct answer.

- 1. The place where the refracted rays from the convex lens meet on the principal axis is
 - A. optic centre of the lens
- B. Centre of curvature
- C. radius of curvature
- D. principal focus

A. principal focus B. principal axis C. radius of curvature D. focal length

- 3. Transparent material which produces image as same as the object is
 - A. convex lens
- B. concave lens
- C. glass slab
- D) prism

- A. convex lens
- B. concave lens
- C. glass slab D. prism

5. Transpare	eni materiai ti	ne diverges ray	ys or ng	III IS	
A. co	onvex lens	B. concave	lens	C. glass slab	D. prism
A) at F	B) between	F and C	C) be	yond C	D) at C
A. diverge B. forms re C. is thinne	s the light ray eal and inverte	ed image s and thicker a		ddle	
virtual and	erect image.		_		ne convex lens in order to obtain a cipal F D) beyond 2F
_	eal of focal len	•	Focus	C. Magnifica	tion D. optic centre
A) 30 11. The phen A. refrac B. reflec C. intern) cm	of light	C) 45	cm	re is 90 cm is D) 90 cm e transparent medium to another is
length of len A. –2m	prescribes a constant the type and concave land concave l	e is ens	B. +2	er –0.5D to a m and convex m and convex	
A. virtual	al focus 'F1'; l, erect and en l, inverted and	-	B. rea	of a convex l l, inverted an l, inverted an	d small size
A. optica	al centre B. ce	entre of curvat	ure	C. aperture	D. principal axis

15. Object distance and image distance of a iens are -60 cm and -20 cm respectively, then the magnification of lens will be

$$A. - 0.33$$

$$B. + 3.0$$

$$C. + 0.33$$

$$D. + 4.0$$

between F1 and 2F1 (F: principal focus of the convex lens)

- A. between F2 and 2F2
- B. at 2F2
- C. beyond 2F2

D. at infinity

Qn no	Ans	Qn no	Ans	Qn no	Ans	Qn no	Ans
1	D	5	В	9	A	13	D
2	В	6	A	10	С	14	С
3	A	7	A	11	A	15	С
4	A	8	В	12	A	16	С

SOURCES OF ENERGY

1) Which of the following is a non renewable source of ener	gy

- A) Solar energy
- B) Fossil fuels
- C) Wind energy
- D) Geothermal energy

- 2) Fuel used in thermal power plant is
 - A) Coal
- B) Uranium
- C) Biomass
- D) Water

- 3) In a hydro power station
 - A) Water is converted to steam to produce electricity
 - B) Potential energy of water converted to electrical energy
 - C) Solar energy is converted in to electrical energy
 - D) The kinetic energy of water molecules converted in to electrical energy
- 4) Which is the main source (ultimate source) of energy?
 - A) Water
- B) Wind
- C) Fossil fuels
- D) Sun

5) Among the following sou	arces of energy which o	one leads to least environ	mental pollution					
in the process of its harno	essing and utilization							
A) Thermal energy	B) Geo thermal ener	rgy C) Nuclear energy	D) Solar energy					
6) The major problem in har	rnessing nuclear energ	y is						
A) It is very difficult to di	spose nuclear waste	B) Split nucl	ei					
C) Convert nuclear energy	in to electrical energy	D) to sustain	reaction					
7) The part of the energy de	mand is fulfilled by hy	dro electric power station	s in India is					
A) $\frac{3}{4}$ th	3) $\frac{1}{2}$ th	C) $\frac{1}{4}$ th	D) $\frac{1}{3}$ th					
8) The major component of b	piogas is							
A) Ethane B) M	Methane	C) Benzene	D) Oxygen					
9) Which country is called as	s country of winds							
A) India	B) America	C) Denmark	D) Italy					
10) Which part of the solar co	oker is responsible for	green house effect						
A) Mirror B) Glass shee	t C) Outer cover of t	he solar cooker D) Entir	e solar cooker					
11) A device which converts	solar energy in to elec	trical energy is						
A) Dry cell	B) Solar cell	C) Electric cell	D) Ammeter					
A) 0.5 V	B) 1 V	C) $0.5 \text{ V} - 1 \text{ V}$	D) 5 V					
13) The power of a solar cell	is							
A) 0.5 W	B) 0.6 W	C) 0.7 W	D) 0.8 W					
14) Solar cells are made by								
A) Hydro carbon	B) Phosphorous	C) Copper	D) Silicon					
15) Solar water heaters are no	ot much efficient to ge	t hot water during						
A) Sunny day	B) Cloudy day	C) A hot day	D) A windy day					
16) Which among the following is not derived from the Sun								
A) Geo thermal energy	B) Wind energy	C) Nuclear energy	D) Bio gas					

17) Which is the source of energy produced due to the temperature difference at various levels of ocean A) Tidal energy B) Wave energy C) Ocean thermal energy D) Solar energy 18) Geo thermal energy is derived from A) Hot spots under the earth B) Hot spots on the earth C) Ocean thermal energy D) Volcanoes 19) Which of the following reaction is responsible for the production of bio gas in a bio gas Plant Fermentation B) Oxidation C) Reduction D) Combustion A) 20) The popular name of bio gas is A) Ethane gas B) Helium gas C) Gobar gas D) Methane gas 21) Which state produces the largest amount of wind energy in India A) Maharastra B) Tamil Nnadu C) Rajastan D) Karnataka 22) The formation of tides in oceans is due to the gravitational pull of

Qn	Ans										
no											
1	В	5	D	9	С	13	С	17	С	21	В
2	A	6	A	10	В	14	D	18	A	22	С
3	В	7	С	11	В	15	В	19	A		
4	D	8	В	12	С	16	С	20	С		

B) Moon

A) Sun

C) Sun and moon

D) Mountains

CHEMISTRY: ACIDS, BASES AND SALTS

Four alternates are given to each question. Choose the correct answer.

1. Among the following that is not a base is:

A) NaOH	B) KOH C	NH ₄ OH D) C ₂ H ₅ OH
4. The PH values of the fo	our solutions A.B.C	C.D are 5.12.8.and 9	respectively. The correct
decreasing order of their h			
A) A>B>C>D	B) D>C>B>A	C) A>C>D>B	D) B>D>C>A
5. The following type of n	nedicine is used fo	r treating indigestion	:
A) Antibiotic	B) Analgesic	C) Antacid	D) Antiseptic
6. A solution turns red litr	nus to blue its PH	is likely to be.	
A) 1	B) 4	C) 5	D)10
7. When zinc reacts with s	sodium hydroxide	, the liberating gas is	
A) Hydrogen	B) Carbon dioxid	de C) Chlorine	D) Sulphur
9. The acid present in Ant	sting is		
A) Oxalic acid	B) Acetic acid	C) Methanoic ac	id D) Citric acid.
10. Our body works withi	n the pH range of		
A) 5.0 to 5.6	B) 8.5 to 9.0	C) 7.0 to 7.8	D) 2.0 to 3.8

10	- TOTAL			•		
17	The statement	10	true	tor	acide	10.
1 4.	The statement	10	uuc	$\mathbf{I}\mathbf{O}\mathbf{I}$	acius	15.

- A) Bitter and change red litmus to blue
- B) Sour and change red litmus to blue
- C) Bitter and change blue litmus to red
- D) Bitter and change red litmus to blue

13. The most basic of the following solution is.

- A) pH = 8.2
- B) pH = 9.3
- C) pH = 11.2
- D) pH = 10.5

14. which of the following is an olfactory indicator.

- A) Red cabbage
- B) Litmus
- C) Turmeric
- D) Clove

15. Sour milk (Curd) is a natural source of which acid?

- A) Citric acid
- B) Lactic acid
- C) Acetic acid
- D) Oxalic acid

- A) X- Sulphuric acid and Y- Oxygen gas
- B) X- Hydrochloric acid and Y- Oxygen gas
- C) X- Sulphuric acid and Y- Hydrogen gaS
- D) X- Hydrochloric acid and Y- Hydrogen gas
- A) Carbon dioxide gas and gas burns making a 'pop' sound if burning candle near a gas filled bubble
- B) Hydrogen gas and hydrogen gas burns making a 'pop' sound if burning candle near a gas filled bubble.
- C) Carbon dioxide gas and brisk effervescence of Carbon dioxide gas.
- D) Hydrogen gas and brisk effervescence of Hydrogen gas.
- 18.Due to excess passing of CO₂ through an aqueous solution of slaked lime, its milky ness fades because:
 - A) Calcium hydrogen carbonate is produced, which is soluble in water.
 - B) Calcium oxide is produced, which is soluble in water.
 - C) Calcium bi-carbonate is produced ,which is soluble in water.
 - D) Calcium hydroxide is produced, which is soluble in water.

19.Alka	alis are:						
1	A) Acids, which ar	e soluble in w	ater I	B) Acids, which a	are insolub	le in water	
(C) Bases, which ar	e insoluble in	water I	D) Bases, which a	are soluble	in water	
1	A) Hydrogen	B) Carbon o	dioxide	C) Water	D) Oxy	/gen	
21. A st	trong acid:						
1	A) Completely gets	s ionized in w	ater	B) Partiall	y gets ioni	zed in water	
(C) Do not get ioniz	ed in water		D) Produce	e OH- ions		
22. Of	the following the	chemical thay	t will turn	red litmus blue i	s:		
1	A) Vinegar B) Le	emon juice	C) Soft	drinks	D) Bak	ing soda soluti	on
	•		•	ralisation reaction	on.		
	C) Substitution	reaction.	D) Oxid	lation reaction.			
24. Am	ong the following	acid having h	ighest hyd	lrogen ion conce	ntration is	one with:	
	A) $pH = 2.5$	B) pl	H = 1.8	C) $pH = 7$		D) $pH = 10$	
25.Diss	olution of acid in v	water is:					
	A) Endosmosis	B) Is	othermic.	C) Endoth	ermic.	D) Exothermic	٠.
26.The	pH of three solution	ons X, Y and Z	Z is 6, 4 aı	nd 8 respectively	. The corre	ect order of acid	dic
strengtl	ı:						
	A) X > Y > Z	B) Z	> Y > X	C) $Y > X$	> Z	D) Z > X > Y	
	A) pH falls belo	ow 7 B) pH	falls belov	w 6 C)pH falls	below 5	D)pH is above	7
28.Too	th enamel is made	up of:					
A) (Calcium carbonate	B) Calcium	phosphate	e C) Calcium o	oxide d)	Calcium chlori	de
29.Farn	ners neutralize the	effect of acid	ity of the s	soil by adding.			
	A) Gypsum	B) S	laked lime	C) Caustic	soda	D) Baking s	soda
30.Tom	nato is a natural sou	irce of:					
	A) Acetic acid	B) Citric ac	id (C) Tartaric acid	D) C	exalic acid	

Ney Answers:

1-D, 2-C, 3-D, 4-D, 5-C, 6-D, 7-A, 8-C, 9-C, 10-C, 11-C, 12-B, 13-C, 14-D, 15-B 16-C, 17-B, 18-A, 19-D, 20-B, 21-A, 22-D, 23-B, 24-B, 25-D, 26-C, 27-C, 28-B, 29-B, 30-D

3 METALS AND NON METALS

1) An example of m	1) An example of metal which is liquid at room temperature is						
A) Sodium	B) Silver	C) Mercury	D) Lead				
2) The ability of metals to be made in to thin sheets is called							
A) Ductility	B) Conductivity	C) Sonority	D) Malleability				
3) The gas released b	y the reaction of 1	netals with dilute acids	is				
A) Hydrogen	B) oxygen	C) Nitrogen	D) Helium				
4) Metal oxides which	th react with both	acid as well as bases to	produce salts				
and water are	known						
A) Nitrogen oxides B) Acidic oxides							
C) Basic oxides D) Amphoteric oxides							
5) The metal which i	s usually stored in	kerosene is					
A) Gold	B) Sodium	C) Red phosphorous	D) White phosphorous				
6) Food cans are coated with Tin and not Zinc because							
A) Zinc is costlier than Tin B) zinc is more reactive than Tin							
C) Zinc has a higher melting point than Tin D) zinc is less reactive than tin							
7) Arrange given elements in the decreasing order of their reactivity Al, K, Ca, Ag							
A) Ca >	A) $Ca > K > Al > Ag$ B) $Al > K > Al > Ca$						
C) $K > Ca > Al > Ag$ D) $Ag > Al > Ca > K$							

8) The metals which are for	and in nature in the fi	ree states are	
A) Platinum and	Iron	B) Gold and	Aluminium
C) Silver and So	dium	D) Platinum	and Silver
presence of excess a	ir is called		
A) Calcination B)) Hydrogenation	C) Galvanization	on D) Roasting
10) Highly exothermic displ	acement reaction is o	called	
A) Combustion	n reaction	B) Thermi	te reaction
C) Chemical re	eaction	D) Reduc	tion reaction
11) A homogeneous mixtur	re of two or more me	tals or metals an	d nonmetals are called
A) Alloys	B) Brass C)	Bronze D)	Stainless steel
12) When metals are expos	ed to moist air for a	long time acqui	res a coating of their respective
oxides called			
A) Concentration	B) Explosion C) Dilution D) corrosion
13) Lustrous non metal amo	ong the following is		
A) Iodine B)	Carbon C) Ox	kygen l	D) Nitrogen
14) Galvanization is a method	od of protecting steel	and iron from ru	sting by coating them with a thin
layer of			
A) Aluminium	B) Chromium	C) Nickel	D) Zinc
15) Amalgam is an alloy of			
A) Copper and zinc	B) Lead and tin	C) Mercury	D) Copper and tin
16) A compound "X" is	solid, brittle, solubl	e in inorganic s	olvent but insoluble in organic
solvents. It has high melting	g and boiling point.	It contains ionic	bond and conducts electricity in
molten state. Identify the co	ompound "X" from th	ne following	
A) NaCl	B) CO ₂	C) SO ₂	D) NO ₂
17) The carbonate ores are o	changed in to oxides	by heating stron	gly in limited air is called
A) Smelting	B) Reduction	C) Roasting	D) calcination

18) An acidic oxide ar	nong the following is		
A) MgO	B) Na ₂ O	C) CO ₂	D) CaO
19) Basic oxide among	g the following is		
A) NO ₂	B) Al_2O_3	C) Na ₂ O	D) SO ₂
20) The following pair	rs will give displacement	reaction	
A) NaCl soluti	on and copper metal	B) MgCl ₂ solution	n and aluminum metal
C) FeSO ₄ soluti	ion and silver metal	D) AgNO ₃ solution	on and copper metal
21) The correct arrange	ement of the given metals	s in ascending order	of their
reactivity is			
A) Potassium > Sod	ium > aluminum > Silver	B) Copper > Zin	c > Calcium > Sodium
C) Magnesium > Iro	n > Lead > Gold	D) Potassium >	> Copper > Aluminums > Iron
22) The process of for	ming thick oxide layer of	f aluminum oxide tl	nat makes it resistant to further
corrosion is ca	lled		
A) Rusting	B) Galvanization	C) Anodizing	D) Electroplating
23) The following al	loy contain non metal as	one of its constituer	nt
A) Brass	B) Bonze	C) Amalgam	D) Stainless steel
24) In the following of	chemical reaction metal re	epresented by 'X' is	S
CuSO4 + X	X 4 + Cu		
A) Ag	B) Au	C) Fe	D) Hg
25) The electronic co	nfiguration of element 'X	' is 2, 8, 1 and the ele	ectronic configuration
of element 'Y' is 2, 8	, 7. Then the type of bond	d formed between tl	nese two elements is
A) Ionic bond	B) Covalent bond	C) Metallic bond	D) Hydrogen bond
		Key answer	
1-C, 2-D, 3-A, 4-D,	5-B, 6-B, 7-C, 8-D, 10-B	8, 11-A, 12-D, 13-A	, 14-D, 15-C, 16-A, 17-D, 18-
D, 19-C, 20-D, 21-I	3, 22-C, 23-D, 24-C, 25-A	A	

CARBON AND ITS COMPOUNDS

	are given to each quest nplest form of hydrocarl		ect answer.	
A) Methane	B) Ethane	C) Ethene	D) Benzene	
2. Which of the fe	ollowing compound hav	ing the general formul	a CnH ₂ n	
A) Ethane	B) Benzene	C) Ethyne	D) cyclobutane	
3. Select a unsatu	rated hydrocarbon of th	e following:		
A) Pentane	B) Cyclohexa	nne C) Ethene	D) Propane	
4. Ethane, with th	ne molecular formula C2	2H6 has		
A) 6 covalent	t bonds B) 7 covalent	bonds C) 8 covalent	bonds D) 9 covalent bor	ıds
5. Which of the fo	following is the molecula	ar formula of cyclobute	ene?	
A) C ₄ H ₁₀	B) C ₄ H ₆	C) C ₄ H ₈	D) C ₄ H ₄	
6. Butanone is a	four-carbon compound	with functional group		
A) Carboxyli	ic group B) Aldehyde	C) Ketone	D) Alcohol,	
A) Food is no	ot cooked completely	C) The fuel is 1	not burning completely	
B) The fuel is	s wet	D) The fuel is	burning completely	
8. C2H6, C3H8,	C4H10, C5H12, these ar	re the homologous seri	es of compounds of alkane	s. The
difference be	tween these compounds	molecular formula is,		
A) CH3	B) CH	C) CH2	D) C2H2	
9. The organic co	ompounds having function	onal group - COOH ar	e known as:	
A) Aldehyde	B) Ketone	C) Carboxylic	acids D) Alcohol	
10. The functiona	al groups present in prop	oanol and propanal resp	pectively are	
A) — OH and	d — CHO	B) — OH and	— СООН	
C) — CHO a	and — COOH	D) — CHO and	d — CO	

11. which of the following functional group represents ketone? D) -OH A) -C = OB) -CHO C) -COOH 12. The property of self-linkage among identical atoms to form long chain compounds of carbon is C) Catenation D) Esterification A) Isomerism B) Halogenation 13. The aromatic hydrocarbon of the following is: A). CH4 B) C6H12 C) C6H10 D) C6H6 14. which one of the following is does not belong to same homologous group? A) CH4 B) C2H2 C) C2H6 D) C3H8 15. The correct structural formula of butanoic acid is нинно ннно (b) H-(a) Hнннн H ннн нннн (c) H-(d) Hннн нннн 16. The molecular formula of three carbon compounds which are in homologous series are C2H6 , C3H8, C4H10. The suitable general formula for these compounds is A) Cn H2n B) Cn H2n - 1 C) Cn H2n - 2D) Cn H2n + 217. Identify the alkene of the following: A) Methane B) Ethane C) Propene D) Butyne 18. The number of covalent bonds present in propene molecule is: A) 9 B) 8 C) 1 D) 3

19. The soap molecule has a

A) Hydrophilic head and a hydrophobic tail

C) Hydrophobic head and a hydrophobic tail

B) Hydrophobic head and a hydrophilic tail

D) Hydrophilic head and a hydrophilic tail

- 20. Detergents are sodium or potassium saits of long chains of
 - A) Carboxylic acids
- B) Sulphonic acids
- C) Aldehydes
- D)Stearic acids

Key answers

1	a	5	С	9	С	13	d	17	c
2	d	6	С	10	a	14	b	18	a
3	c	7	b	11	a	15	d	19	a
4	b	8	С	12	c	16	d	20	b

5. PERIODIC CLASSIFICATION OF ELEMENTS

1 The dis	scovery of these el	lements made	the Ne	wland's law of octav	es irrelevant
A	A) Noble gases	B) Non-meta	ıls	C) Halogens	D) Metals
2. The n	number of groups a	and periods in	the mo	odern periodic table	are
A	.) 7, 9	B) 18. 7		C) 7, 18	D) 9, 7
3. Eleme	ents P, Q, R and S	have atomic 1	numbe	ers 11, 15, 17 and 18	respectively. Which of them
are react	ive non-metals?				
A	A) P and Q	B) P and R		C) Q and R	D) R and S
4. The la	aw of triads was p	roposed by			
A) John Newland's		B) Jo	hann Dobereiner	

- C) Demetri Mendeleev
- D) Henry Moseley
- 5. The Eka-aluminium proposed by Mendeleev is present day
 - A) Silicon
- B) Germanium
- C) Gallium
- D) Aluminium

). 1 ne	e atomic numbers of	A, B, C, D and E are	e 2, 3, /, 10 and 30.	ine groups of elements that
oelong	g to the same period	are		
	A) A, B, C	B) B, C, D	C) A, D, E	D) B, D, E
7. C	onsider this as part o	f the modern periodic	table. Among them	the element that has lowest
atomi	e radius is			
W	X			
Y				
	-			
Z				
]			
	A) W	B) X	C) Y	D) Z
	_	nic number 14 can be	placed in which of the	ne given group and period of
he mo	odern periodic table			
	A) Group 15 and 4t	h period	B) Group 14 and 3tl	n period
	C) Group 16 and 5t	h period	D) Group 16 and 4th	n period
). "T	he Properties if the e	lements are the period	lic functions of their	atomic number" this is
	A) Modern periodic	e law B) Lav	w of triads	
	C) Law of octaves	D) Me	ndeleev Periodic law	V
10.T	he element having hi	igh electronegativity i	\mathbf{S}	
	A) K	B) N	C) Ca	D) Be
11. W	, X, Y, Z have aton	nic numbers 4, 7, 11 &	& 12. The elements b	elonging to same group are
	A)W & X	B) X & Y	C) W & Z	D) Y & Z
12. Tł	ne number of natural	ly occurring elements	in nature are	
	A) 118	B) 24	C) 94	D) 103

13. The earliest attempt to classify elements res	uitea in grouping them into			
A) Artificial and natural elements	B) Non-metals and	metalloids		
C) Metals and metalloids	D) Metals and non-metals			
14. The number of triads identified by Dobereir	ner during his classification	were		
A) 3 B) 4	C) 5 D) 6			
15. According to Newland the number of eleme	ents existed in nature were			
A) 118 B) 94	C) 65 D) 56			
16. As we go down the group the number of she	ells			
A) Decreases	B) Increases			
C) First increases and then decreases	D) Does not	change		
17. In group valency/ number of valence electr	ons			
A) Decreases	B) Increases			
C) First increases and then decreases	D) Does not	change		
18. Electropositivity of elements in a period				
A) Decreases	B) Increases			
C) First increases and then decreases	D) Remains	same		
19. The atomic number of an element 'X' is 12	and the atomic number of "	Y' is 16. Then the		
type of bond formed between these two elemen	ts			
A) Hydrogen bond B) Covalent bond	C) Ionic bond	D) Metallic bond		
20. Metalloids exhibit properties of				
A) Metals	B) Both metals and non-m	etals		
C) Non-metals	D) Neither metals nor non-	- metals		
21. Identify the correct statement related to met	als			
A) They accept electrons	B) Electronegative in natur	re		
C) Form acidic oxides	D) They donate electrons			

22. Element A forms a chioride with the formula ACI2, which is a solid with high meiting point.

X would most likely be in the same group of periodic table as that of

a) Na

b) Mg

c) Al

d) Si

Answer key

Qn	Ans										
1	а	5	С	9	а	13	d	17	d	21	d
2	b	6	b	10	b	14	а	18	а	22	b
3	С	7	b	11	С	15	d	19	С		
4	b	8	b	12	С	16	b	20	b		

LIFE PROCESSES

Four alternates are given to each question. Choose the correct answer.

	1. The process of remov	al of wastes	from the	body of	living	organisms	is	called
--	-------------------------	--------------	----------	---------	--------	-----------	----	--------

A. Excretion

B. Digestion

C. Blood circulation

D. Nutrition

2. Transportation of photosynthetic products is called

A. Transpiration

B. Translocation

C. Ascent of sap

D. Capillary rise

3. The tissue that transports prepared food to all parts of the plant is

A. Xylem

B. Phloem

C. Stomata

D. Sieve tube

4. Transpiration means

A. Release of oxygen through stomata

B. Transportation of food

C. Transportation of water and minerals

D.

5. The chamber of the heart that receives deoxygenated blood from all parts of the body is

A. Leπ auricie C. Left ventricle	B. Right auricle D. Right ventricle						
6. The opening and closing of stomata are co	ontrolled by						
A. Guard cells	B. Companion cells						
C. Somatic cells	D. Stone cells						
C. Somwie Com	2.2000						
7. The class of animals which are having fou							
A. Fishes and amphibians	B. Amphibians and reptiles						
C. Reptiles and birds	D. Birds and mammals						
8. A muscular organ responsible for continuo	ous blood circulation in our body is						
A. Heart	B. Kidney						
C. Lungs	D. Neuron						
A. They have thick wall							
B. They are the smallest blood vessels	s in our body						
C. They have valves							
D. They carry blood from different parts of the body to the heart							
10. A large number of urine filtering units found in our kidneys are							
A. Neuron	B. Alveoli						
C. Nephron	D. Villi						
11. The deficiency of hemoglobin in our bod	v will cause						
A. Less urine production	B. Fatigue						
C. Delay in blood clotting	D. Increase in blood pressure						
e. Detay in cross crowing	B. mereuse in ereca pressure						
12. The component of the blood that prevent during injuries is	s the low blood pressure due to bleeding						
A. White blood corpuscles	B. Plasma						
1	D. Platelets						
B. Lymph	D. Platelets						
13. The major driving force in the transporta night time is	tion of water and minerals in plants during						
•	R Transpiration mill						
A. Root pressure C. Translocation	B. Transpiration pull						
C. Transfocation	D. Suction pressure						
14. The function of kidneys is							
A. Pumping blood	B. Control and coordination						
	2. Control and Cooldination						

C. Kemovai of digestive waste	D. Kemovai of metabolic waste
15. When the right atrium relaxes the blood rushed A. To right ventricle B. To right atrium from the body C. To right atrium from body D. To left atrium from right atrium	es
 16. Pulmonary veins have thinner walls compared A. They are very small. B. They have valves. C. They carry oxygenated blood. D. Blood flows with less pressure. 	d to pulmonary arteries, because
A. Pulmonary artery C. Aorta	B. Pulmonary vein D. Vena Cava
 18. The function of lymph is A. Transportation of oxygen B. Transportation of digested fat from intes C. Clotting of blood D. Protecting body from the diseases 	stine
19. The left and right part our heart is separated b	OV
A. Synapse	B. Septum
C. Stomata	D. Valves
20. Identify the group of cold blooded animalsA. Bat and FrogC. Shark and lizard	B. Pigeon and man D. Chimpanzee and man
21. The liquid component of the blood is	
A. Water	B. Haemoglobin
C. Lymph	D. Plasma
22. Gums and resins are stored in	
A. Old xylem	B. Stomata

- C. Dead cells D. Old phloem
- 23. The excretory product produced by our kidneys is
 - A. Ammonia

B. Urea

C. Amino acids

- D. Carbon dioxide
- 24. Identify the correct statement among the following with reference to transportation in plants
 - A. Root pressure alone is responsible for xylem conduction.
 - B. Translocation is not associated with the use of A.T.P molecules.
 - C. Phloem tissue helps in translocation.
 - D. Transportation of water and minerals is two way process.
- 25. The purpose of the presence of valves in veins is
 - A. To withstand the high pressure
 - B. To avoid the back flow of blood
 - C. To keep our blood warm
 - D. To separate oxygenated and deoxygenated blood
- 26. The correct pathway of transport of oxygenated blood from lungs to the heart is
 - A. Pulmonary arteries ---- Right ventricle ---- Right atrium
 - B. Pulmonary arteries ---- Right atrium ---- Right ventricle
 - C. Pulmonary veins ---- Left ventricle ---- Left atrium
 - D. Pulmonary veins ---- Left atrium ---- Left ventricle

Key answers

Qn no	Ans										
110		110		110		110		110		110	
1	Α	6	A	11	В	16	D	21	D	26	В
2	В	7	D	12	D	17	C	22	A		
3	В	8	A	13	В	18	В	23	В		
4	D	9	A	14	D	19	В	24	С		
5	A	10	С	15	В	20	С	25	В		

CONTROL AND COORDINATION

1. Select the mismatched pair among the following. A. Testosterone - development of male sex organs B. Insulin - regulates blood sugar level C. Thyroxin - stimulates growth in all organs D. Ovaries - development of female sex organs 2. The correct sequence of transport of signals through the neuron A. Axon --- dendrite --- nerve ending --- cell body B. Cell body ---axon --- dendrite --- nerve ending, C. Axon --- cell body --- dendrite --- nerve ending, D. Dendrite --- cell body --- axon --- nerve ending 3. An example for growth independent movement A. Bending of shoot towards light C. Pollen tube grow towards ovary D. Roots grow towards water 4. The place where the part responsible for maintaining body posture and balance is found in A. Hindbrain B. Midbrain C. Forebrain D. Spinal cord 5. The hormone that controls directional movements in plants is B. Auxins A. Gibberellins D. Abscisic acid C. Cytokinin

A. Swollen neck

C. Stunted growth

6. Deficiency of iodine in our diet results in

B. Rise in blood sugar

D. Irregular menstrual cycles

A. Reflex actions are planned actions B. Brain controls reflex actions C. Spinal cord is the centre of reflex actions D. Information of reflex actions is not share	S
8. The endocrine glands present on our kidneys a A. Ovaries C. Pituitary	re B. Thyroid D. Adrenal
 9. Reaction of the roots in plants is A. Directional and negatively phototropic. B. Positively phototropic and negatively geo C. Non directional and positively geotropic. D. Directional and positively phototropic. 	•
10. Which of the following gland does not exist in A. Testis.C. Pituitary	n pair is B. Ovary. D. Adrenal
11. Higher activity of the endocrine gland that is padolescence causes A. Gigantism. C. Loss of memory.	B. Increased memory. D. Dwarfism
 12. Swollen neck and reduce metabolic function in A. Irregular blood sugar level. B. Blood circulation is blocked in neck region. C. More deposition of fat in neck region. D. Deficiency of iodine in our body 	
13. The part the neuron that converts chemical im A. Axon.C. Nerve ending.	pulses into electrical impulses B. Cell body. D. Dendrites
14. Hormone responsible for promoting growth in A. Growth hormone C. Thyroxin	fast growing parts like seeds and fruits B. Cytokinin D. Auxin

15. Identify the reflex action among the following A. Turning over head suddenly after hearing	
16. Pancreas: insulin::testis:	
C. Thyroxin.	D. Testosterone
17. An endocrine gland present in our digestive sy	ystem
C. Pancreas.	D. Thyroid
 18. The Reason for dwarfism is A. Over functioning of Pituitary gland B. Reduced functioning of Thyroid gland C. Reduced functioning of pituitary gland D. Over functioning of thyroid gland 	
19. If the roots of the plants are going towards the A. PhototropismC. Thigmotropism	nitrate concentrations in the soil, it is B. Hydrotropism D. Chemotropism
20. The gap between the two successive neurons i A. Dendrite C. Axon	s called B. Synapse D. Impulse
21) The function of medulla of hindbrain isA. Controlling body posture and balanceB. Generating responses according to the inC. Controlling blood pressure vomiting andD. Controlling reflex action	-

A. ReceptorSensory neuron Spinal co B. Sensory neuronSpinal cordmotor n C. Effectorsmotor neuronSpinal cord D. Spinal cordSensory neuron Receptor	euronReceptor Effectors Sensory neuron Receptor
23) The interpretation of sensory information takeA. MidbrainC. Spinal cord	es place in B. Cerebrum D. Cerebellum
24. A plant is laid horizontal to the ground. The pageotropism after a few days is A. Stem C. Fruit	art of the plant that exhibits positive B. Leaf D. Root
 25. Deficiency of estrogen hormone in female may A. Decreased physical development B. Irregular menstrual cycles C. Expression of male sexual characters D. Slow rate of metabolic activities 	y cause
 26. The movement of muscles during any action is A. Increase in blood pressure B. Change in protein combination C. Variation in the amount of water D. Restructuring of D.N.A 	s due to
27. When the sugar level in our blood decreases, t	hen
28. The hormone that it restricts the growth in plant A. Abscisic acid C. Cytokinin	nts is B. Gibberellins D. Auxins

- 29. The example for phototropism is
 - A. Closing of touch me not leaves
 - B. Growth of tendrils by hugging the support
 - C. Growth of pollen tube ovary
 - D. Roots bending away from the light
- 30. The hormone that regulates the metabolism of proteins, fats and carbohydrates

A. Testosterone

B. Adrenalin

C. Thyroxin

D. Insulin

Key answers

Qn	Ans										
no											
1	C	6	A	11	A	16	D	21	A	26	В
2	D	7	С	12	D	17	С	22	A	27	С
3	В	8	D	13	D	18	С	23	В	28	A
4	C	9	A	14	В	19	D	24	D	29	D
5	В	10	C	15	A	20	В	25	В	30	C

HOW DO ORGANISMS REPRODUCE?

1. The plant having unisexual flowers is	1.	The	plant l	having	unisexual	flowers	is
------------------------------------------	----	-----	---------	--------	-----------	---------	----

A. Garden pea

B. Hibiscus

C. Pumpkin

D. Rose

- 2. Which of the following statement is correct with respect to the reproduction in plants?
 - A. Fusion of gametes takes place on stigma
 - B. Every pollination results in formation of zygote
 - C. All the floral parts persists in the flower
 - E. After fertilization ovule transforms into seed

3. A sexually transmitted disease is A. Malaria C. Typhoid	B. AIDS D. Diabetes						
4. The plant that shows self pollinationA. WatermelonC. Mustard	is B. Coconut D. Papaya						
5. A ball of cells formed by the continuA. ZygoteC. Foetus	ous division of fertilized egg is B. Embryo D. Seed						
6. A contraceptive method that causes h	normonal imbalance in women is						
 7. Self-pollination is A. Transfer of pollen to the stigma of another flower B. Transfer of pollen to the stigma of same flower C. Transfer of pollen to the ovary of same flower D. Transfer of pollens to the ovary of another flower 							
8. The main advantage of sexual reprod A. The production of more off-sp B. The production organisms with C. The production organisms who D. The production organisms that	orings th more variation						
9. The structure that supplies nourishmed A. Fallopian tube C. Style	ent to developing embryo B. Prostate gland D. Placenta						
10. An elastic bag like structure presentA. OvaryC. Uterus	in female reproductive system is B. Scrotum D. Urinary bladder						

A. Condoms C. Oral contraceptive pills	B. Copper T D. Surgical method
12. The function of testis isA. Production of eggsC. Production of semen	B. Production of spermsD. Production of pollen grains
13. Boys inherit Y chromosomes A. Only from his mother B. From mother or from father C. From father and mother both D. only from his father	
14. In organisms that have complex body struct A. Only male gamete B. Both male and female gametes C. Only female gamete D. Either male or female gamete	ture the motile gamete is
15. The middle-elongated part of the pistil thatA. StigmaC. Filament	allows the growth of pollen tube is B. Style D. Ovary
A. Scrotum is present in the abdominal c B. Urethra is the common passage for bo C. Fallopian tube helps to deliver sperms D. Prostate gland produces sperms.	th urine and semen.
17. The process of transfer of Pollen from anthA. PollinationC. Germination	ers to stigma is known as B. Reproduction D. Fertilization
18. The process of fusion of male and female gA. PollinationC. Germination	ametes B. Reproduction D. Fertilization

19. The changes that occur in Howers after tert. The correct order of process is i. The ovary becomes fruit ii. The petals, sepals, stamens shrivel and fall of iii. The ovule is converted into seed.	
A. i), ii), iii)	B. iii), ii), i)
C. iii), i), ii)	D. i), iii), ii)
 20. Deficiency of estrogen hormone in female A. Decreased physical development B. Irregular menstrual cycles C. Expression of male sexual characters D. Slow rate of metabolic activities 	may cause
21. The fertilization of ovum and sperm happen A. Ovary C. Uterus	ns in B. Oviduct / Fallopian tube D. Vagina
22The secretion of which gland helps in easy to	ransportation of sperms and also nutrition. Vas deferens
23. The hormone responsible for the secondary	sexual characters in boys
C. Insulin	D. estrogens
24. The hormone responsible for the secondary	sexual characters in girls
C. Insulin	D. Estrogens
25. A pathogen that causes gonorrhea and syph A. Protozoa.	nilis transmitted through sexual contact B. Bacteria
C. Virus.	D. Fungus
26) The correct sequence found in the process	of sexual reproduction in flower is
A. Pollination, fertilization, embryo, see	ed
B. Seed, embryo, fertilization, pollination	on
C. Embryo, seed, pollination, fertilization	
D. Pollination, fertilization, seed, embry	70

Key answers

Qn	Ans								
no									
1	C	6	D	11	В	16	В	21	В
2	D	7	В	12	В	17	A	22	С
3	В	8	В	13	A	18	D	23	A
4	C	9	D	14	A	19	D	24	D
5	C	10	С	15	В	20	В	25	В
								26	A

HERIDITY AND EVOLUTION

Four alternates are given to each question. Choose the correct answer.

4	T .1	0.00	. •	•
1	Father	ot (i	enetics	10
1.	1 auto	$\mathbf{o}_{\mathbf{i}} \mathbf{o}_{\mathbf{i}}$	CHCHOS	- 1.0

A. Gregor Johann Mendel

B. Charles Darwin

C. August Weismann

D. Lamark

- 2. The main advantage of sexual reproduction is
 - A. To produce more offspring
 - B. To produce organisms with variation
 - C. To produce organisms which are genetically identicle
 - D. To produce organisms that can withstand any adverse condition
- 3. An example for homologous organs is
 - A. Our arm and a dog's forelimb
 - B. Wings of butterfly and wings of birds
 - C. Legs of cockroach and legs of lizard
 - D. Potato and carrot
- 4. When we cross a dominant violet flower plant with recessive white flower plant, in F1 generation we get
 - A. All violet flower plants
 - B. One violet and three white flower plants
 - C. All white flower plants
 - D. One white and three violet flower plants

5. In a dinybrid cross of tall round and snort wr and dwarf round seeded plants in the F2 general	tion. This shows that,
A. Tallness is always associated with rou	-
B. Tallness is independent of round shap	
C. Tall round are recessive compared to	
D. They were produced due to change in	DNA
6. The foetus that received "X" chromosome from	om father will become
A. A boy	B. A girl
C. Either a boy or a girl	D. Neither boy nor a girl
7. Boys inherits Y chromosomes	
A. Only from his mother	B. From mother of from father
C. From father and mother both	D. only from his father
8. The word gene refers to	
A. A protein that produces DNA	
B. A section of DNA that carries information	ation
C. DNA of germ cells	
D. Another word for chromosomes	
9. The phenotypic ratio of F2 Plants in monohy	brid cross is
A. 3:1	B. 1:2:2:1
C. 9:3:3:1	D. 2:1
	2.2.1
10. The basic purpose behind the evolution of v	wings in birds is
A. To help them to fly	
B. To provide protection against cold	
C. To provide sexual attraction	
D. To protect from the enemies	
11. The process of continuation of unfavorable population is	variation due to an accident in a
A. Genetic drift	B. Accidental selection
C. Natural selection	D. Artificial selection

A. All dinosaurs did not have wings B. Only a few dinosaurs had wings C. Wings were not inevitable for dinosaurs D. Birds evolved from reptiles	nad wings." i nis study proves that
13. The eye structures of octopus and vertebrates at A. They are homologousB. They evolved from same originC. Their ancestors are different.D. The octopus's eyes are vestigial.	are different. It means
14. Mendelian experiment consisted of breeding ta with short pea plants bearing white flowers. The pralmost half of them were short. This suggests that can be depicted as A. TTWW C. TtWW	rogeny all bore violet flowers, but
15. In evolutionary terms, we have more in common A. A Chinese school-boy C. A spider	on with B. A chimpanzee D. Bacterium
16. The process of transfer of traits from parents to A. SpeciationC. Replication	o offspring B. Mutation D. Heredity
17. If a round green seeded plant (rrYY) is crossed plant (RRyy). The seeds produced in F ₁ generation A. Round and green C. Wrinkled and green	•
18. The experiences of an individual during its life because they areA. Inherited traitsC. Dominant traits	B. Acquired traits D. Recessive traits

- 19. Anaiogous organs nave
 - A. Same structure and same function
 - B. Same structure and different function
 - C. Different structure and same function
 - D. Different structure and different function
 - A. TtRr

B. ttRR

C. TTrr

D. TTRR

Key answers

Qn no	Ans								
1	A	5	В	9	В	13	C	17	C
2	В	6	В	10	В	14	C	18	A
3	A	7	D	11	A	15	В	19	C
4	A	8	A	12	D	16	D	20	A

OUR ENVIRONMENT

- 1. The correct statement with respect to biodegradable substances among the following is; these substances
 - A. Remain inert in the environment for a long time
 - B. Harm various organisms in the ecosystem
 - C. Increase the density of harmful chemicals in different tropic levels
 - D. Undergo recycling naturally in the environment
- 2. The correct equation related to ozone formation is

A.
$$O_2$$
----- $[O] + [O], [O] + O_2 ---- $O_3$$

B.
$$[O] + [O] + [O]$$
 -----O₃

C.
$$[O] + O_2 - O_3$$
, $O_2 - O_3 -$

D.
$$[O] + O_2 - O_3$$

5. The materials that change slowly their form and nature are							
C. Waste papers	D. Plants fibres						
4. The one of chemical for the depletion of ozone	layer is						
A. Methane gas	B. HFCs (Hydrofluoro carbons)						
C. CFCs (Chloro-fluoro carbons)	D. Carbon dioxide						
5. The substances that are do not undergo decaying	ng by decomposers are called						
A. Biodegradable	B. Non-Biodegradable						
C. Bio waste	D. Biomaterial						
6. According to 1987 UNEP (United Nations Envisioned by all countries is to manufacture	ironment Program) the agreement						
A. Refrigerators with CFC	B. CFC-free refrigerators						
C. Air conditioners with CFC	D. cars with CFC						
7. Among the following group that contain only be	iodegradable items is						
A. Cake, Wood and Plastic							
B. Fruit peels, glass pieces and grass							
C. Flowers, Fruit peel and grass							
D. Glass pieces, metal pieces and Flowers							
8. The eco-friendly practices from the following a	are						
B. Carrying cloth-bag to market							
C. Using bikes while going to nearby places	S						
D. Drinking tea in plastic cups.							

9. Ozone protects us from	
A. Ultra-Violet radiation	B. Microwave radiation
C. Visible radiation	D. Infra-red radiation
10. The number of oxygen atoms in Ozone is	
A. One	B. Two
C. Three	D. Four
11. One of the factors responsible for the deple	tion of ozone layer is
A. Reforestation	B. use of bio-fuel
12. Ozone layer is formed from oxygen at the action of	higher levels of the atmosphere by the
A. X-rays	B. U-V radiations
C. Infrared radiations	D. Radio waves
13. Biodegradable substance among the follow:	ing is
A. Glass bottle	B. Cooker gasket
C. Paper cup	D. Iron nail
14. A deadly poisonous gas made of three oxygearth is	gen atoms, that protectively shields our
A. Carbon dioxide	B. Methane
C. Ammonia	D. Ozone
15. Which of the following is not the correct wa	•
A. Separating dry and with waste	B. Burning hospital waste
C. Preparing biogas from hotel waste	D. Land filling plastic waste

- 10. The cause of concern for damage to the ozone layer is
 - A. Blocking of UV radiation
 - B. Falling of acid rain directly on the earth
 - C. Direct entry of UV radiation to the earth
 - D. Increase in greenhouse effect.

Key answers

Qn no	Ans						
1	D	5	В	9	A	13	В
2	A	6	В	10	С	14	D
3	D	7	С	11	D	15	В
4	С	8	В	12	В	16	С

SUSTAINABLE MANAGEMENT OF NATURAL RESOURCES

Four alternates are given to each question. Choose the correct answer.

1. Cracked and	damaged	buckets a	are used	for g	rowing	plants.	The	ecofrien	dly 1	princi	ple
behind this is											

A. Reuse

B. Reduce

C. Recycle

D. Repurpose

- 2. Which of the following statement is not true with recycling?
 - A. It helps to manage waste
 - B. It reduces the need for new raw materials
 - C. It saves energy
 - D. It is better than" reuse"
- 3. Amrita Devi Bishnoi National award is awarded to the achievers in the field of

A. Forest conservation

B. Wildlife conservation

C. Biodiversity conservation

D. Water conservation

 4. The environmental problem caused by the control A. They need huge money to build B. They need advanced technology C. Rehabilitation of natives D. Loss of biodiversity 	onstruction of nuge dams is
 5. Which of the following people are not the act the present situation? A. Tribal people B. Forest department C. Industries that are depending on forest D. Environment enthusiasts 	ive stakeholders of forest conservation in
6. The eco-friendly principle behind repairing le	eaking taps is
A. Reduce	B. Refuse
C. Reuse	D. Recycle
7. The traditional water harvesting structures of	Karnataka are called
A. Khadins	B. Bandaras
C. surangam	D. Katta
8. Which one of the following is known as 'bio A. RiversC. Deserts	diversity hotspots'? B. Forests D. Grassland
A Pairy Candhi Canal	D. Javyaharlal Canal
A. Rajiv Gandhi Canal C. Indira Gandhi Canal	B. Jawaharlal Canal D. Mahatma Gandhi Canal
C. Mana Ganam Canar	D. Manatina Gandin Canar
 10. The main cause for abundant coli form bactor A. Disposal of human excreta directly B. Discharge of effluents from electroplate C. Washing of clothes D. Immersion of ashes. 	_
11. What is the purpose of rain-water harvesting A. To hold rain water on the surface of th B. To recharge ground water.C. To use water for the irrigation of crops D. To rear fish	e earth.
12. Expand the abbreviation GAP	
DDPI Office Rangalore Rural Dist Sci	ence MCO Spoorti – 2021 42 Page

B. Government Agency for Pollution Contr	ol plan
C. Ganga Action PlanD. Government Animal Protection Plan	
13. Chipko movement is related to	
A. River protection	B. Wildlife protection
C. Forest protection	D. Environment protection
14. Which of the following is the age-old concept Madhya Pradesh?	of the water harvesting system in
A. Bundhis	B. Ponds
C. Bandharas	D. Nadis
15. Kulhs system of irrigation is common in	
A. Andhra Pradesh	B. Uttar Pradesh
C. Madhya Pradesh	D. Himachal Pradesh
16. Maharashtra : Bandharas and Tals :: Rajastha	n:
A. Khadins and nadis	B. Tanks and kattas
C. Bandharas and pynes	D. Bundhis and ahars
17. Tehri dam:River Ganga:: Sardar Sarovar	
A. River Tunga	B. River Bhadra
C. River Narmada	D. River Kaveri
18. Sal forests are found in_	
A. Maharashtra	B. Goa
C. West Bengal	D. Karnataka
19. Industries depending on forest resources are	
A. Wood and paper industries	B. Food industries
C. Chemical industries	D. Software industries
20. Failure of sustainable management of ground A. Less use of groundwater	water level is due to
B. Overuse of groundwater and not adopting	g rain water harvesting
C. Dams	-
D. Rivers	

A. Government Action Plan

21. A product that can no more be used for the original purpose but use it for some other useful purpose is

A. Recycle

B. Reduce

C. Reuse

D. Repurpose

22. The watershed management

- A. Increases production and income of watershed community
- B. Increases droughts and floods
- C. Decreases the biodiversity of downstream reservoirs
- D. Increases deforestation

Key answers

Qn	Ans										
no											
1	D	5	С	9	С	13	С	17	С	21	D
2	D	6	A	10	Α	14	Α	18	С	22	A
3	В	7	D	11	В	15	D	19	A		
4	D	8	В	12	В	16	A	20	В		