Zilla Panchayat Chikkamagaluru

Office Of The Deupty Director Department of Public Instruction Chikkamagaluru

SSLC

Reduced Syllabus For The Year 2020-21 VISNAYA VIGNANA

Multiple Choice QUESTION BANK Based on New Examination Pattern

Prepared by:-District Science Experts Team All the science teacher's of childrennegaluru

Design by:Sathyaprakash R M Art Teacher

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ಜಿಲ್ಲಾ ಪಂಚಾಯಿತಿ, ಉಪನಿರ್ದೇಶಕರು(ಆಡಳಿತ)ರವರ ಕಛೇರಿ, ಸಾರ್ವಜನಿಕ ಶಿಕ್ಷಣ ಇಲಾಖೆ, ಚಿಕ್ಕಮಗಳೂರು ಜಿಲ್ಲೆ

ಪ್ರೀತಿಯ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ, ಎಸ್.ಎಸ್. ಎಲ್. ಸಿ ಪರೀಕ್ಷೆಯಲ್ಲಿ ಉತ್ತಮ ಫಲಿತಾಂಶ ಪಡೆಯಲು ನೂತನ ಪರೀಕ್ಷಾ ಪದ್ಧತಿಗೆ ಅನುಗುಣವಾಗಿ ರಚಿಸಲಾದ ಬಹು ಆಯ್ಕೆ ಮಾದರಿಯ ಪ್ರಶ್ನಾಕೋಠಿ ಕೈಪಿಡಿ

ಪ್ರೇರಣೆ

ಶ್ರೀ ಎಂ.ಆರ್. ಮಾರುತಿ ನಿರ್ದೇಶಕರು, ಡಿ.ಎಸ್.ಇ.ಆರ್.ಟಿ ಬೆಂಗಳೂರು

ಪರಿಕಲ್ಪನೆ

ಶ್ರೀ ಬಿ.ವಿ. ಮಲ್ಲೇಶಪ್ಪ

ಉಪನಿರ್ದೇಶಕರು (ಆಡಳಿತ), ಸಾರ್ವಜನಿಕ ಶಿಕ್ಷಣ ಇಲಾಖೆ, ಚಿಕ್ಕಮಗಳೂರು

ಶ್ರೀಮತಿ ಪುಷ್ಪಲತಾ ಹೆಚ್.ಕೆ.

ಫ್ರಾಂತುಪಾಲರು ಹಾಗೂ ಉಪನಿರ್ದೇಶಕರು(ಅಭಿವೃದ್ಧಿ), ಡಯಟ್ ಚಿಕ್ಕಮಗಳೂರು

ಮಾರ್ಗದರ್ಶನ

ಶ್ರೀ ಜಯಣ್ಣ ಶಿಕ್ಷಣಾಧಿಕಾರಿಗಳು, ಉಪನಿರ್ದೇಶಕರ ಕಛೇರಿ, ಚಿಕ್ಕಮಗಳೂರು

ಸಹಕಾರ

ಕ್ಷೇತ್ರ ಶಿಕ್ಷಣಾಧಿಕಾರಿಗಳು, ಚಿಕ್ಕಮಗಳೂರು ಜಿಲ್ಲೆ ಹಿರಿಯ ಉಪನ್ಯಾಸಕರು, ಡಯಟ್ ಚಿಕ್ಕಮಗಳೂರು ಉಪಯೋಜನಾ ಸಮನ್ವಯಾಧಿಕಾರಿಗಳು ಎಸ್.ಎಸ್.ಕೆ ಚಿಕ್ಕಮಗಳೂರು ವಿಷಯ ಪರಿವೀಕ್ಷಕರು ಉಪನಿರ್ದೇಶಕರ ಕಛೇರಿ , ಚಿಕ್ಕಮಗಳೂರು ಸಹಾಯಕ ಯೋಜನಾ ಸಮನ್ವಯಾಧಿಕಾರಿಗಳು ಎಸ್.ಎಸ್.ಕೆ. ಚಿಕ್ಕಮಗಳೂರು ಉಪನ್ಯಾಸಕರು, ಡಯಟ್ ಚಿಕ್ಕಮಗಳೂರು ಬ್ಲಾಕ್ ನ ಎಸ್.ಎಸ್.ಎಲ್.ಸಿ ನೋಡಲ್ ಅಧಿಕಾರಿಗಳು, ಚಿಕ್ಕಮಗಳೂರು ವಿಷಯ ಸಂಪ್ಮನೂಲ ಶಿಕ್ಷಕರ ತಂಡ ಚಿಕ್ಕಮಗಳೂರು.

RESOURCE FORMTION TEAM

SL NO	CHAPTER NAME	TEACHERS NAME	SCHOOL NAME			
PHYSICS						
1.	Electricity	Palaksha T S	GJCHS Koppa			
		Pavithra M S	GJCHS Koppa			
2.	Magnetic Effects of Electric	Kumaraswamy E	GHS S Bidare			
	current	Manasa K N	GHS Baskal			
3.	Light-Reflection and Refraction	Madhu K M	GHS Garagadahalli			
		Krishnamurthy B S	GHS Somanahalli			
4.	Sources of Energy	Gurumurthy	GHSThorehadlu			
		Soumya	KPS Begar			
		CHEMISTRY				
5.	Acids Bases and Salts	G R Hegade	GHS Talihalla			
		Basavaraj D M	VVS Siravase			
6.	Metals and Non-Metals		Shri Amrutheshwara High			
		Ranganna M	School Neralakere			
		Tejomurthy K T	KPS Kalasapura			
7.	Carbon and its compounds	Ashok Kumar S	GJCHS Sakharayapattana			
	L	Krishna	GHS Makonahalli			
8.	Periodic Classification of	Vani T	GHS Hadikere			
	Elements	Smitha S	GHS Sokke			
		BIOLOGY				
9.	Life Processes	Venkatesh H N	GJCHS Mallenahalli			
		Prashantha S B	GHS Mallandur			
10.	Control and Coordination	Madhumathi R	LBS Chikkamagalur			
		Nanjundappa	GJCHS Kadur			
11.	Our Environment	Jayashree	GHS Balliganur			
		Sampath Kumar KS	GHS Jodithimmapura			
12.	How do Organisms Reproduce?	Shobha K R	GHS Balagadi			
		Roopa	GHS Lokanathapura			
13.	Heredity and Evolution	Lavanya B S	GHS Daradahalli			
		Keshava S	GHS Bettagere			
14.	Sustainable Management of Natural Resources	Ganapati Tantri	Jwala Malini Girls High School N.R. Pura			
		ShreeChetana	GHS Gadigeshwara			

ರಚನಾ ಸಹಕಾರ ಮತ್ತು ಪರಿಷ್ಠರಣೆ

ಶ್ರೀ ರಂಗಣ್ಣ ಎಮ್. ಶ್ರೀ ಅಮೃತೇಶ್ವರ ಪ್ರೌಢಶಾಲೆ, ನೇರಲಕೆರೆ, ತರೀಕೆರೆ ತಾ||

ಶ್ರೀ ಪ್ರಶಾಂತ ಎಸ್.ಬಿ ಸರ್ಕಾರಿ ಪ್ರೌಢ ಶಾಲೆ, ಮಲ್ಲಂದೂರು, ಚಿಕ್ಕಮಗಳೂರು ತಾ||

ಶ್ರೀ ಕೃಷ್ಣಮೂರ್ತಿ ಬಿ.ಎಸ್ ಸರ್ಕಾರಿ ಫ್ರೌಢ ಶಾಲೆ, ಸೋಮನಹಳ್ಳಿ, ಕಡೂರು ತಾ||

ಮುಖಪುಟ ವಿನ್ಯಾಸ

ಶ್ರೀ ಸತ್ಯಪ್ರಕಾಶ್ ಎಮ್, ಚಿತ್ರಕಲಾ ಶಿಕ್ಷಕರು ಶ್ರೀಮತಿ ನಿಂಗಮ್ನ ಬೊಮ್ಮಯ್ಯ ಸರ್ಕಾರಿ ಪೌಢಶಾಲೆ, ಬೆಟ್ಟಗೆರೆ, ಮೂಡಿಗೆರೆ ತಾ||

ವಿಶೇಷ ಮಾರ್ಗದರ್ಶಕರು

ಶ್ರೀಯುತ ಸತೀಶ್ ಎಸ್.ಆರ್ ವಿಷಯ ಪರಿವೀಕ್ಷಕರು, ಚಿಕ್ಕಮಗಳೂರು

ಶ್ರೀಮತಿ ಅರುಣಕುಮಾರಿ ಎನ್.ಎಸ್ ವಿಷಯ ಪರಿವೀಕ್ಷಕರು, ಚಿಕ್ಷಮಗಳೂರು

ಸಹಕಾರ

ಜಿಲ್ಲಾ ಮತ್ತು ತಾಲ್ಲೂಕು ಪ್ರೌಢಶಾಲಾ ಮುಖ್ಯ ಶಿಕ್ಷಕರ ಸಂಘ, ಚಿಕ್ಕಮಗಳೂರು ಜಿಲ್ಲೆ ಜಿಲ್ಲಾ ಮತ್ತು ತಾಲ್ಲೂಕು ಪ್ರೌಢಶಾಲಾ ಸಹ ಶಿಕ್ಷಕರ ಸಂಘ, ಚಿಕ್ಕಮಗಳೂರು ಜಿಲ್ಲೆ



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ZILLA PANCHAYATH, DDPI OFFICE, CHIKMAGLURU

SUBJECT: SCIENCE ENGLISH MEDIUM SUB. CODE: 83-K

	PI	HYSICS	
	1. ELF	ECTRICITY	
1. The SI unit of electr	ic current is		
A. Ohm	B. Ampere	C. Volt	D. Faraday
2. The rate of flow of	electric charge is		
A. Electric pote	ntial	B. Electrical co	onductance
C. Electrical cu	rent	D. Electrical re	sistance
3. The SI unit of resist	ance is		
A. Ampere	B. Volt	C. Ohm	D. Watt
4. A device used to ch	ange the resistance i	n an electric circu	it is
A. ammeter		B. rheostat	
C. galvanomete	[D. voltmeter	
5. What is the amount	of electric charge th	at flows through t	he circuit when a current of
0.5 A is drawn by a	filament of an elect	ric bulb for 10 mir	nutes?
A. 30C	B. 3.00C	C. 300C	D. 3000C
6. An instrument used	to measure electric	current in a circuit	t is
A. voltmeter	B. ammeter	C. Rheostat	D. electrometer
7. The obstruction by a	a material of conduc	tor to the easy pas	ssing of electric current is
known as			
A. conductance	B. resistance	C. power	D. friction
8. The number of elect	rons constituting on	e coulomb charge	e is
A. 6 X 18 ¹⁰ ele	ctrons	B. 6 X 10 ¹⁸ el	ectrons
C. 1.6 X 10 ¹⁸ ele	ectrons	D. 1.06 X 10 ¹⁸	electron
9. The resistance of a	conductor depends u	pon the following	, factors
A. length of the	conductor	B. cross sectior	n area of the conductor
C. material of the	le conductor	D. all the above	2
10. A piece of wire of	resistance R is cut in	n to five equal par	ts. These parts are then
-	lel. If the equivalent	resistance of this	combination is R ^{I,} then the
ratio R/R ¹ is			
A. $\frac{1}{25}$	B. 1/5	C. 5	D. 25
20	hat helps to maintair	a potential differ	ence across a conductor
A. ammeter	B. voltmeter	C. battery	D. multimeter
		5	s two points having a potenti
difference 12?	, done in moving d e	indige of 20 deros	s two points naving a potenti
A. 24J`	B. 6J	C. 20J D.	. 16J
13. The relation betwe			
	-		
A. V α I ₂	B. V α 1/I	C. V ₂ α I	D. V α I

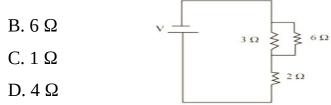
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- 14. Which of the given statement is not true regarding the electrical set up for the verification of Ohm's law
 - A. the voltmeter is connected in parallel with the known resistance
 - B. the ammeter is connected in series circuit
 - C. the rheostat can only increase the resistance in electrical circuit
 - D. the single key is used to switch on/off the electrical circuit
- 15. The relation between potential difference (V) and current(I) was discovered by A. Newton B. Ohm C. Ampere D. Volta
- 16. In parallel combination of electrical appliances total electric power A. increases B. decreases C. remain same D. none of these
- 17. The potential difference between the terminals of an electric heater is 60V when it draws a current of 4A from the source. What current will the heater draw if the potential difference is increased to 120V

A. 6 A B. 8 A C. 10 A D. 4 A

18. What is the equivalent resistance of the circuit obtained when the resistors are connected as shown in the circuit diagram?

A.	2	Ω	
----	---	---	--



19. When a 4 Ω resistor is connected across the terminals of 12V battery, the number of Coulombs passing through the resistor per second is

A. 0.3 B. 3 C. 4 D. 14

20. The electric bulbs are usually filled with following gases for the prolonged life of the filament are

A. Chlorine and Argon	B. Oxygen and Nitrogen
C. Argon and Argon	D. Argon and Nitrogen
21. What is the unit of resistivity?	

A. Ω/s B. Ω/A C. Ω m D. Ω m/s

22. Alloys are used commonly in electrical heating devices like toasters, electric iron etc. because,

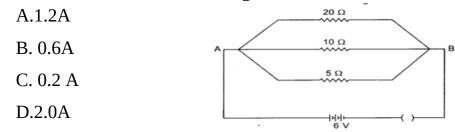
- A. alloys are good conductors B. alloys do not oxidize/burn readily
- C. alloys are bad conductors

D. alloys absorb heat

- 23. The symbolic representation used to show rheostat in an electric circuit is
- A. --()-- B. <u>O</u> C. <u>-</u> D. <u>-</u> D. <u>-</u> 24. Which of the following terms does not represent electrical power in a circuit? A. I²R B. IR² C. VI D. V²/R

25. An electric bulb is circuit?	rated 220V and 100	W. When it is opera	ted on 110V the power in a	
A. 100W	B. 75W	C. 50W	D. 25W	
26. Two conducting with	ires of the same mat	erial and equal lengt	hs and equal diameters are	
first connected in s	eries and then paral	lel in a circuit across	the same potential	
difference. The rati	o of heat produced	in series and parallel	combination would be	
A. 1:2	B. 2:1	C. 1:4	D. 4:1	
	done in moving a c	harge of 2C across t	wo points having a potential	
difference 12V?				
A. 20J	B. 24J	C. 30J D. 50)J	
28. Mathematical expr				
A. $P = VI$		C. $H = I^2 RT$	D. V = IR	
29. Device used to cha	0		D. Walterster	
A. Rheostat	B. Ammeter	C. Galvanometer	D. Voltmeter	
30. 1KWh means	B. 3.6 X10 ⁶ J	C36I	D. 3. 6 X10 ² J	
			rent is 0.5A what is the	
power of the bulb?		generator. The curr	Tent is 0.314 what is the	
A.440W	B. 110W	C. 55W	D. 0.0023W	
32. The series arranger				
A. It won't look be				
B. Current won't f	low through it			
C. If one compone	nt fails, the circuit i	s broken and none o	f the component works.	
D. If one compone	ent fails, the other co	omponent works.		
33. A lamp draws a cu		-	0V source what is the	
resistance of the la	mp?			
Α.100 Ω	Β. 110 Ω	C. 120 Ω	D. 180 Ω	
34. Calculate the curre	nt in a circuit if 500	C of charge passes tl	hrough it in 10 minutes?	
A.500A	B. 50A	C. 83A	D. 0.83A	
35. 100J of heat is proc	luced each second in	n a 4Ω resistor. Th	e potential difference across	
the resistor will be				
A.30V	B. 10V	C. 20V	D. 25V	
36. The commercial un	-			
A. Kilojoule	B. Joule	C. Kilowatt Hour	D. Watt-hour	
37. The resistivity does	0			
A. The material	0			
B. The temperature is changed C. The shape of the resistor is changed				
-	and temperature ar			
	and temperature at	c chungen.		

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



39. A battery of 10V carries 20000C of charge through a resistance of 20 Ω. The work done in 10 seconds is----- A.2X10 ³J
B. 2X10 ⁵J
C. 2X10 ⁴J
D. 2X10 ² J

40. When one-unit electric charge moves from one point to another point in an electric circuit then the amount of work done in Joules is known as

A. Electricity	B. Electrical resistance
C. Electrical conductivity	D. Potential difference
41. Coulomb is the S.I unit of	
A. Electrical charges	B. Electricity
C. Potential difference	D. Electrical resistance
42. When electric current is passed electron	s moves from
A. High potential to low potential	B. Low potential to high potential
C. In the direction of electric current	D. Against the direction of current
43. The heating element of an electric iron i	s made up of
A. Copper	B. Nichrome
C. Aluminium	D. Iron
44. An electric heater is rated at 2KW. Elect	trical energy costs \gtrless 4/KWh. What is the cost
of using the heater for 3 hours?	
A. ₹ 12 B. ₹ 24	C.₹36 D.₹48
45. An electric Fuse works on the	
A. Chemical effect of current	B. Magnetic effect of current
C. Lighting effect of current	D. Heating effect of current
46. Observe below table, match the right part	ir.
a) Electricity	i) Volt
b) Electric resistance	ii) Coulomb
c) Potential difference	iii) Ampere
d) electric charge	iv) Ohm
A. a-ii, b-i, c-iii, d-iv	B. a- iv, b-i, c- iii, d- ii
C. a-iii, b-iv, c-i, d-ii	D. a-iii, b-i, c-iv, d-ii
47. A Fuse wire repeatedly gets burnt when	used with a good heater. It is advised to use a
fuse wire of	
A. More length	B. Less radius

C. More radius

D. Less length

48. Identify the wrong pair in the below table:

A. ── I I	Eclectric cell
в. — то	resistor
с. ————	Open switch
D	Electric bulb
49. The element used exclusively	for filaments of incandescent lamps

A. CopperB. GoldC. SilverD. Tungsten50. Identify the correct relation:
A. H = IRtB. H = IR2tC. H = V2RtD. $H = I^2 Rt$

Key Answer

Q.NO.	OPTION	ANSWER
1	В	Ampere
2	С	Electrical current
3	С	Ohm
4	В	rheostat
5	С	300C
6	В	ammeter
7	В	resistance
8	В	6 X 10 ¹⁸ electrons
9	D	all the above
10	D	25
11	С	battery
12	А	24J
13	D	VαI
14	С	the rheostat can only increase the resistance in electrical circuit
15	В	Ohm
16	С	remain same
17	В	8 A
18	D	4 Ω
19	В	3
20	D	Argon and Nitrogen
21	С	Ωm

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22	В	alloys do not oxidize/burn readily
23	D	
24	В	IR ²
25	D	25W
26	С	1:4
27	В	24J
28	D	V=IR
29	А	Rheostat
30	В	3.6X10 ⁶ J
31	В	110 W
32	С	If one component fails, the circuit is broken and none of the component works.
33	С	120 Ω
34	D	0.83A
35	С	20V
36	С	Kilowatt Hour
37	С	The shape of the resistor is changed
38	В	0.6A
39	В	2X10 ⁵ J
40	D	Potential difference
41	А	Electrical charges
42	В	Low potential to high potential
43	В	Nichrome
44	В	₹24
45	D	Heating effect of current
46	С	a-iii, b-iv, c-i, d-ii
47	С	More radius
48	С	-Open switch
49	D	Tungsten
50	D	$H = I^2 Rt$

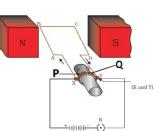
2. MAGNETIC EFFECTS OF ELECTRIC CURRENT

1. Which of the following is not a property of magnetic field lines?				
A. Magnetic field lines are denser near pole	S			
B. Magnetic field lines are closed loops				
C. Magnetic field lines intersect each other				
D. Magnetic field lines emerge from north p	ole and merge at the south pole.			
2. What will happen if a soft iron bar is placed insi	de the solenoid?			
A. The bar will be electrocuted resulting in a	short circuit.			
B. The bar will be magnetized as long as the	ere is current in the circuit.			
C. The bar will be magnetized permanently.				
D. The bar will not be affected by any mean	S.			
3. In Fleming's left-hand rule first finger indicates	the direction of the,			
A. Movement of conductor	B. Magnetic field			
C. Electric current	D. None of the above			
4. In electric motor, soft iron insulated with coil is	called as,			
A. Solenoid B. Magnetic Field	C. Dynamo D. Armature			
5. In Faraday's experiment, when the coil and the	magnet are both kept stationary.			
A. More electricity flows in the coil	B. Less electricity flows in the coil			
C. Electricity does not flow in the coil	D. All of the above are right			
6. The function of the electric generator is, it				
A. Reverses the direction of current				
B. Converts electrical energy into mechani	cal energy			
C. Detects the presents of electric current i	n the circuit			
D. Converts mechanical energy into electri	cal energy			
7. At the time of short circuit, the current in the cir	cuit			
A. Reduces substantially	B. Varies			
C. Increases heavily	D. Vary continuously			
8. The device which converts electric energy into a	mechanical energy,			
A. Electric motor	B. Electric generator			
C. Ammeter	D. Dynamo			
9. The potential difference between live wire and r	neutral wire in our country is,			
A. 150 V B. 220	C. 200 V D. 330 V			
10. DC generator works on the principle of,				
A. Magnetic field of electric current	B. Electromagnetic induction			
C. Fleming's left-hand rule D. Chemical effect of electric curren				
11. The most important safety method used for pro-	otecting home appliances from			
overloading is by,				
A. Use of earthing wire	B. Use of fuse			
C. Connecting all appliances in series	D. Use of electric meter			

- 12. The main advantage of AC power transmission over DC power transmission to long distances is,
 - A. AC transmit without much loss of energy
 - B. Less insulation problem
 - C. Less problem of instability
 - D. Does not require conducting wires
- 13. A device that reverses the direction of flow of current through a circuit is called as,
- A. Commutator B. Motor C. Both A & B D. None of the above 14. In this diagram P & Q indicates,
 - A. Slip rings
 - B. Armature
 - C. Brushes
 - D. Split rings



- A. Fleming's right hand rule
- C. Faraday's Law D. Fleming's lefthand rule
- 16. Which of these are commutators,
 - A. Split rings B. Brushes C. Magnets D. Armature
- 17. When we decide the direction in the compass needle it shows the direction of,
 - A. North-South B. East-North C. South-West D. East-West
- 18. If we bring north pole of one bar magnet near north pole of another bar magnet,
- A. Repels B. Attracts C. Does not respond D. None of the above 19. Any two field lines are found to,
 - A. Cross each other B. Will separates
 - C. Do not cross each other D. Do not separates
- 20. Magnetic field lines moves from which pole to which pole,
 - A. East-North B. West-North C. South-West D. North-South
- 21. Magnetic field inside the solenoid is,
 - A. More B. Less C. Uniform D. All of the above
- 22. In right hand thumb rule, thumb points towards the direction of current then what does the fingers wrap around the conductor indicates,
 - A. Magnetic field lines B. Induced electric current
 - C. Flow of electricity D. None of the above
- 23. The first scientist to find out magnetic field will produce electric current is,
 - A. Isaac Newton B. J C Bose C. Albert Einstein D. Michael Faraday
- 24. A coil of many circular turns of insulated copper wire wrapped in the shape of a cylinder is called as,
 - A. Magnetic field B. Motor C. Dynamo D. Solenoid



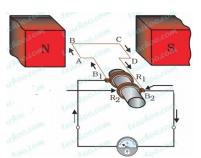
B. Right hand thumb rule

25. If rectangular copper coil is rotated in magnetic field, the direction of induced electric current changes after,

A. 2 rotations B. 1 rotation C. Half rotation D. 1/4th rotation 26. The frequency of the alternating current produced in India,

A. 50Hertz B. 100Hertz C. 25Hertz

- 27. In this diagram B1 & B2 indicates,
 - A. Brushes
 - B. Armature
 - C. Rings
 - D. None of the above



D. 75Hertz

- 28. Which of the following correctly describes the magnetic field near a long straight wire
 - A. The field consists of straight lines perpendicular to the wire
 - B. The field consists of straight lines parallel to the wire
 - C. Both A and B
 - D. The field consists of concentric circles centred on the wire
- 29. 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. None of the above

30. The essential difference between the AC & DC generator is that,

- A. DC generator will generate a higher voltage
- B. AC generator will generate a higher voltage
- C. AC generator has an electromagnet while a DC generator has permanent magnet,
- D. AC generator has slip rings while the DC generator as a commutator
- 31. An instrument that can detect the presence of a current in a circuit,
 - A. Galvanometer B. Dynamo C. Ammeter D. Motor

32. The magnetic field lines inside the solenoid are in the form of,

- A. Straight lines B. Parallel straight lines
- C. Circular loops D. All of the above
- 33. A core of soft iron wrapped around with a coil of insulated copper wire is called as,

A. Electromagnet B. Solenoid C. Ammeter D. Galvanometer

- 34. The shape of the magnetic field lines produced by a current carrying conductor is,
 - A. Straight lines B. Concentric circles
 - C. Parallel straight lines D. None of the above

35. As we move away from a current carrying conductor the magnetic field,

A. Decreases B. Remains stable C. Both A & B D. Increases

Key Answers

- 1. C. Magnetic field lines intersect each other
- 2. B. The bar will be magnetized as long as there is current in the circuit.
- 3. A. Movement of conductor
- 4. D. Armature
- 5. C. Electricity does not flow in the coil
- 6. D. Converts mechanical energy into electrical energy
- 7. C. Increases heavily
- 8. A. Electric motor
- 9. B. 220
- 10. B. Electromagnetic induction
- 11. B. Use of fuse
- 12. A. AC transmit without much loss of energy
- 13. A. Commutator
- 14. D. Split rings
- 15. A. Fleming's right-hand rule
- 16. A. Split rings
- 17. A. North-South
- 18. A. Repels
- 19. C. Do not cross each other
- 20. D. North-South
- 21. C. Uniform
- 22. A. Magnetic field lines
- 23. D. Michael Faraday
- 24. D. Solenoid
- 25. C. Half rotation
- 26. A. 50Hertz
- 27. A. Brushes
- 28. D. The field consists of concentric circles centred on the wire
- 29. C. Producing induced current in a coil due to relative motion between a magnet and the coil
- 30. D. AC generator has slip rings while the DC generator as a commutator
- 31. A. Galvanometer
- 32. B. Parallel straight lines
- 33. B. Parallel straight lines
- 34. B. Concentric circles
- 35. A. Decreases

3. Light, Reflection and Refraction

1. When light travels from one medium to another medium, it changes its velocity

			000 100 100		
This phenomenon is	s called				
A. Reflection of	f light	B. Absorp	B. Absorption of light		
C. Refraction c	of light	D. Scatter	ing of light		
2. S.I unit of power of	lens is				
A. Ampere	B. Dioptre	C. Coulomb	D. ohm		
3. This formula is $\frac{1}{f}$ =	$\frac{1}{v} - \frac{1}{u}$				
A. mirror formu	ıla	B. Lens fo	ormula		
C. used to find	out power of lens	D. magnif	fication		
4. Snell's law related	to				
A. light refract	ion	B. light r	eflection		
C. scattering of	light	D. light absorption			
5. In which of the foll	owing medium the	velocity of light is a	maximum		
A. glass	B. water	C. diamond	D. kerosene		
6. The velocity of ligh	t in vacuum is				
A. $3x10^8 \text{ ms}^{-1}$		B. 3x10 ⁸ n	ns ⁻²		
C. 3x10 ⁹ ms ⁻²		D. 3x10 ⁹ ms ⁻¹			
7. Find the focal lengt	h of a lens of powe	er -2.5D.			
A2.5m		B0.40m	l		
C2.0m		D2.25m	1		

8. In which medium light travels more.

Material Medium	Refractive Index
Air	1.003
Ice	1.31
Kerosene	1.44
Diamond	2.42

A. diamond (Refr Index -2.42)

B. air (Refr Index - 1.0003)

C. Ice (Refr Index-1.31)

D. kerosene (Refr Index -1.44)

9. What is Focal length?

A. The distance between principal focus of the lens and the optical center

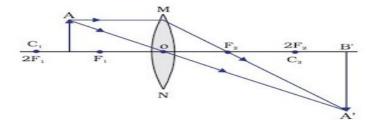
- B. The distance between principal focus of the lens and the aperture
- C. The distance between center of curvature and the optical centre

D. The distance between center of curvature and the aperture

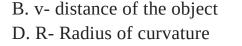
10. Where should be object placed to obtained an image from the convex lens as same size of the object?

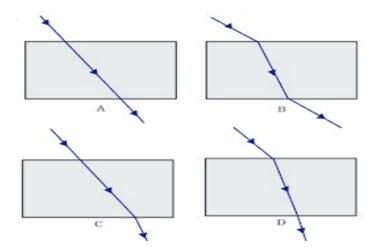
A. at infinity B. beyond $2F_1$ C. at $2F_1$ D. between F_1 and $2F_1$

- 11. Identify the correct pairA. u- distance of the imageC. f- Principal focus
- 12. The path of a ray of light coming from air passing through a rectangular glass slab are shown as A,B, C and D in below Figure Which one of them is correct?
 - A. A
 - B. B
 - C. C
 - D. D
- 13. A pencil partially immersed in water, it looks displaces ...the reason for this is A. light reflection
 - B. light absorption
 - C. light refraction
 - D. scattering of light
- 14. A lens which always formed a virtual and erect image is
 - A. Convex lens B. Plano convex lens
 - C. Concave lens D. Plano concave lens
- 15. A convex lens has radius of curvature is 50cm.find out its power?
 - A. +2D B. -2D C. -4D D. +4D
- 16. With the help of this ray diagram mention the position of the image, size of the image and nature of the image



- A. At infinity, Enlarged, Real and Inverted image
- B. Beyond 2F₂, Enlarged, Real and Inverted image
- C. At 2F₂, Enlarged, Virtual and erect image
- D. At infinity, Enlarged, Virtual and erect image
- 17. A concave lens has focal length 15cm. At what distance should the object from the lens be placed so that it forms an image at 20cm from the lens?A. -12cm B. 12cm C. -60cm D. 60cm





18. A lens has radius of curvature 20cm. What is its focal length? A. 10cm B. 20cm C. 5cm D. 40cm 19...The centre of lens is called--A. Centre of curvature **B.** Optical centre C. Lens axis D. Principle focus 20. Which one of the following formula is used to find the magnification of the lens? A. $\frac{1}{f} = \frac{1}{v} - \frac{1}{u}$ B. $P = \frac{1}{f}$ C. $m = \frac{v}{u}$ D. R= 2f 21. When light ray travels from rarer medium to denser medium, the rays are A. in straight line B. bent towards normal C. bent away from the normal D. reflecting back 22. The formula related to Snell's law of refraction A. $\mu = \frac{\sin i}{\sin r}$ B. $\mu = \frac{\sin r}{\sin i}$ C. $\mu = \frac{i}{\pi}$ D. $\sin i = \frac{\mu}{\sin r}$ 23. The material medium having highest refractive index is A. Air B. Kerosene C. Crystal salt D. Diamond 24. If the power of the lens is -0.25, then its focal length is A. -4 cm B.-400 cm C. -4m D. 40 cm 25. Which one of the following materials can not be used to make a lens? **B.** Glass C. Plastic A. Water D. Clay 26. Which of the following lenses would you prefer to use while reading small letters found in a dictionary? A. A convex lens of focal length 50 cm B. A concave lens of focal length of 50 cm C. A convex lens of focal length 5 cm D. A concave lens of focal length 5 cm 27. A doctor prescribes a corrective lens of power -0.5D o a person. The focal length of lens and the type is A. -2m and concave lens B. +2m and concave lens C. -2m and convex lens D. +2m and convex lens 28. The nature and size of the image formed when the object is kept between the principal focus ' F₁' and optical centre `O' of a concave lens is A. real, inverted and small size B. virtual inverted and small size C. real, inverted and enlarged D. virtual, erect and enlarged 29. The diameter of the circular outline of a spherical lens is B. optical centre C. principal axis D. centre of curvature A. aperture 30. Object distance and image distance of a lens are -60 cm and-20 cm respectively, then the magnification of lens will be A. +0.33 B. +4.0 C. +3.0 D. -0.33

KEY ANSWER

- 1. C. Refraction of light
- 2. B. Dioptre
- 3. B. Lens formula
- 4. A. light refraction
- 5. B. water
- 6. A. $3x10^8 \text{ ms}^{-1}$
- 7. B. -0.40m
- 8. B. air (Refr Index 1.0003)
- 9. A. The distance b/w principal focus of the lens and the optical center

10.C. at $2F_1$

- 11. D. R- Radius of curvature
- 12. B. B
- 13. C. light refraction
- 14. C. concave lens
- 15. D. +4D
- 16. B. Beyond 2F₂, Enlarged, Real and Inverted image
- 17. C. -60cm
- 18. A. 10cm
- 19. B. Optical centre
- 20. C. $m = \frac{v}{u}$
- 21. B. bent towards normal

22. A.
$$\mu = \frac{\sin i}{\sin r}$$

- 23. D. Diamond
- 24. D. -4m
- 25. D. Clay
- 26. C. A convex lens of focal length 5 cm
- 27. B. +2m and concave lens
- 28. D. virtual erect and enlarged
- 29. A. aperture
- 30. A. +0.33

14. Sources of Energy

1. The role of glass sh	eet in the solar cooke	er		
A. reflects the solar radiation into the box		B. creates green house effect		
C. absorbs solar radiation		D. acts as ins	sulator.	
2. A conventional sour	rce of energy in the f	followin	g is	
A. Coal B	. Solar energy	C. nı	iclear energy	D. tidal energy
3. The energy convers	ion in thermal power	r plant is	5	
A. electric ene	ergy into mechanical	energy		
	l energy into electric		У	
C. nuclear ene	ergy into electrical er	nergy		
D. heat energy	y into electrical energy	gy		
4. A solar water heater	r cannot be used to g	et hot w	ater on	
A. a sunny day			B. a cloudy o	lay
C. a hot day			D. a windy d	lay
5. Which of the follow	ving is not an examp	le of a b	io-mass energ	y source?
A. wood			B. gobar- gas	S
C. nuclear energ	gy		D. coal	
6. The following is no	t ultimately derived	from the	e solar energy	
A. geothermal e	energy B. wind en	nergy	C. nuclear er	nergy D. bio mass
7. 26. The main consti	tuent of biogas is			
A. Methane			B. carbon die	oxide
C. hydrogen			D. hydrogen	sulphide
8. The most common s	source of heat in anc	ient tim	es is	
A. wood	B. coal	C. pe	troleum	D. natural gas
9. Which is the ultimation	te sources of energy			
A. Water	B. Sun		C. uranium	D. Fossil fuel
10. The required speed	d of turbines to gener	rated ele	ectricity from	wind energy is
A. 15 Km/h	B. 12 Km/h		C. 10 Km/h	D. 20 Km/h
11. The mirror best su	ited for use in a sola	r cooker	' is	
A. Plane mirror			B. Concave	mirror
C. Convex mirr	Oľ		D. Plano-cor	ivex mirror
12. The rise of sea wat	ter during high tide i	s caused	l by the gravit	ational pull of the
A. Sun	B. Moon	C. ea	rth	D. Mars
13. Which element is	used in solar cells?			
A. Carbon			B. Silicon	
C. Phosphorous			D. Sulphur	
14. Fuel used in therm	al power plant			
A. water	B. uranium	C. so	lar radiation	D. fossil fuel

15. Which one of the following form of energy leads to least environmental pollution in the process of its harnessing and utilization?

- A. Nuclear energy
- C. Solar energy

- B. Thermal energy
- D. Geothermal energy

- 16. In hydro power plant
 - A. Potential energy possessed by stored water is converted into electricity
 - B. Kinetic energy possessed by stored water is converted into potential energy
 - C. Electricity is extracted from water
 - D. Water is converted into steam to produce electricity
- 17. The need to use non-conventional sources of energy is
 - A. To prevent population explosion
 - B. For the protection of non-conventional energy
 - C. To the solution of the energy crisis
 - D. To create an energy crisis
- 18. Types of energy production from oceans
 - A Tidal energy and wave energy
 - B. Tidal energy and Nuclear energy
 - C. Wave energy and Nuclear energy
 - D. Ocean thermal energy and wind energy
- 19. In solar cooker, concave mirror and black paint used for this reason.
 - A. Convergence of solar radiation and to absorb less heat
 - B. Divergence of radiation and to absorb more heat
 - C. To look beautiful
 - D. convergence of radiation and to absorb more heat
- 20. Geo thermal energy is energy derived from
 - A. Hot spots under the earth
 - B. Cold spots above the earth
 - C. hot spots above the earth
 - D. cold spots under the earth
- 21. The major problem in harnessing nuclear energy is how to
 - A. Split nuclei
 - B. Sustain the reaction
 - C. Dispose of spent fuel safety
 - D. convert nuclear energy into electrical energy
- 22. The type of energy conversion in solar cell
 - A. Solar energy into electric energy
 - B. Thermal energy into electrical energy
 - C. Light energy into heat energy
 - D. Electrical energy into light energy

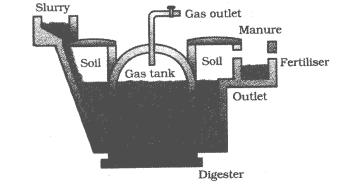
- 23. Ocean thermal energy is due to
 - A. Energy stored by waves in the ocean
 - B. Temperature difference at different levels in the ocean
 - C. Pressure difference at different levels in the ocean
 - D. Tides arising out in the ocean
- 24. Ocean energy thermal conversion plants can operate if the temperature difference between the water at the surface and water at depth up to 2 Km is

A. 10 K B. 20 K C. 30 K D. 40 K

25. A non-renewable source of energy

A. takes very long time to deplete B. will get depleted in short duration of time

- C. is pollution free
- D. can be regenerated easily.
- 26. It is one of the disadvantages of Solar cell
 - A. requires little maintenance
 - B. can be set up even in remote village.
 - C. has low efficiency
 - D. works satisfactorily without the use of focusing device.
- 27. Which of the given is not a characteristic of a good fuel_
 - A. Less calorific value B. Easy to store and transport
 - C. Less residue after burning D. easy accessible
- 28. In which of the following part anaerobic respiration takes place
 - A. Slurry
 - B. Digester
 - C. Gas outlet
 - D. Out let



KEY ANSWERS:

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

5. Acids Bases and Salts

1. Which of the following is used for treating indigestion.

A. Antibiotic B. Analgesic C. Antacid D. Antiseptic 2. Alkalis are

A. Acids, which are soluble in water B. S.	Salts, which are soluble in water
--	-----------------------------------

C. Bases, which are soluble in water D. All of these

3. Name of the gas released when sodium hydrogen carbonate reacts with hydrochloric acid.

A. Hydrogen	B. Carbon dioxide	e C. Nitrogen	D. Sulphur
4. Which of the follow	ing compound is form	ed when zinc reacts w	vith hydrochloric acid
A. Zinc chloride	B. Zinc sulphate	C. Zinc carbonate	D. Zinc hydroxide
5. Dissolution of stron	g acid in water is		
A. Neutralizes	B. Isothermic	C. Exothermic	D. Endothermic
6. pH Value of Acid ra	in is		
A. Below 7.2	B. Below 6.1	C. Below 5.6	D. Below 6.6
7. Tooth enamel is ma	de up of		
A. Calcium car	oonate	B. Calcium pho	osphate
C. Calcium oxide		D. Calcium chloride	
8. Nettle sting is a natu	ral source of which ac	rid	
A. Methanoic ad	cid B. Lactic acid	C. Citric acid	D. Tartaric acid
9. What is formed whe	en Zinc reacts with sod	ium hydroxide	
A. Zinc hydrox	ide and sodium	B. Sodium zincate ar	nd hydrogen gas
C. Zinc oxide and hydrogen gas D. Sodium zincate and water		nd water	
10. What happens whe	n a solution of an acid	mixed with base in te	est tube.
i) Temperature i	ncreases ii) Ter	nperature decreases	
iii) Remains san	ne iv) salt f	ormation takes place	
A. (i) and (iv)	B. (I) and	(iii)	
C. (ii) and (ii	i) D. (ii) and	(iv)	

11. 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 12. An ant's sting can be treated with A. Methanoic acid B. Acetic acid C. Baking soda D. Caustic soda 13. The correct way of making a solution of acid in water is to A. Add water to acid B. Add acid to water C. Mix acid and water simultaneously D. Add water to acid in a shallow container 14. As the P^H value of a neutral solution increases A. Basic property decreases and number of OH⁻ ions increases B. Acidic property increases and number of H⁺ ions increases C. Basic property increases and number of OH⁻ ions increases D. Acidic property decreases and number of H⁺ ions increases 15. The acid produced in our stomach is ------A. Nitric acid B. Hydrochloric acid C. Sulphuric acid D. Sulphur dioxide 16. A solution turns red litmus to blue, its pH is likely to be B. 4 C. 5 D. 10 A. 1 17. The solution reacts with crushed egg shells to give a gas that turns lime water milky the solution contains A. NaCl B. HCl C. LiCl D. KCl 18. 5mL of a solution of NaOH is found to be completely neutralize by 4mL of HCl. If we take 10mL of NaOH, the amount of HCl solution required to neutralize it will be, A. 10ml B. 12ml C. 8ml D.16ml 19. Which of the following is an olfactory indicator **B.** Litmus A. Red cabbage C. Turmeric D. Clove

20. A strong acid is

A. Completely gets ionized in water

C. Partially gets ionized in water D. All of the these

21. Which of the following will turn red litmus to blue?

A. Vinegar B. Lemon juice C. Soft drinks D. Baking soda solution

B. Do not get ionized in water

22. What happens when carbon dioxide gas reacts with sodium hydroxide?

A. Carbon monoxide is formed

B. Sodium carbonate is formed

C. Carbon dioxide does not react with sodium hydroxide

D. None of the these

23. Find out the correct arrangement of the following in the increasing order

of their pH value.

A. NaOH solⁿ < blood < lemon juice B. blood < lemon juice < NaOH solⁿ

C. lemon juice < blood < NaOH solⁿ D. blood < NaOH solⁿ < lemon juice

24. Which of the following solution having highest hydrogen ion concentration is one with

A. pH 2.5 B. pH 1.8 C. pH 7 D. pH 10

25. The P^H of three solutions X , Y and Z 6, 4 and 8 respectively which of the following is the correct order of acidic strength?

A. X > Y > Z B. Z > Y > X C. Y > X > Z D. Z > X > Y26. Formers neutralize the effect of acidity of the soil by adding

A. Gypsum B. Slaked lime C. Caustic soda D. Baking soda 27. Sodium carbonate is basic salt because it is a salt of

A. Strong acid and strong base B. Weak acid and weak base

C. Strong acid and weak base D. Weak acid and strong base

28. Range of pH scale is

A. -1 to 15 B. 0 to 15 C. 0 to 14 D. 7 to 14

29. The type of indicator, methyl orange and phenolphthalein are

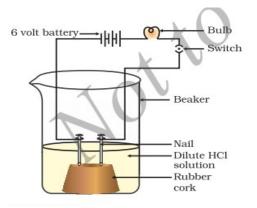
- A. Synthetic indicator B. Natural indicator
- C. Olfactory indicator D. All of the above

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30. Common character of metal oxide is

A. Basic B. Acidic C. Neutral D. None of the above

31. The apparatus in the figure was setup to demonstrate electrical conductivity.



- i) Bulb will not glow because electrolyte is not acid
- ii) Bulb will glow because HCl is a strong acid and furnishes ions for conduction
- iii) Bulb will not glow because circuit is incomplete
- iv) Bulb will not glow as it depends upon the type of electrolytic solution

A. (i) & (iii)	B. (ii) & (iv)
C. (ii) only	D. (iv) only

32. The gas liberated when dilute sulphuric acid reacts with zinc granules

- A. Sulphur dioxide B. carbon dioxide
- C. Nitrogen D. Hydrogen
- 33. NaOH + HCl \longrightarrow NaCl + H₂O. This chemical reaction is an example of
 - A. Neutralization reaction
 - B. Substitution reaction
 - C. Addition reaction
 - D. Combustion reaction
- 34. As the pH value of a solution decreases
 - A. Number of OH⁻ ions increases
 - B. Number of H^+ ions increases
 - C. Number of H^+ ions decreases
 - D. Equal number of OH^{-} and H^{+} ions

35. The substance that changes the colour of red litmus paper in to blue colour

- A. Sodium chloride solution B. Lemon juice
- C. Pure water D. Sodium hydroxide solution

36. When a carbon di oxide reacts with calcium hydroxide, salt and water are produced. Then the nature of carbon dioxide is

- A. Acidic B. Metallic
- C. Both acidic and basic D. Basic

KEY ANSWER					
SL NO	ANS	SL NO	ANS	SL NO	ANS
1	С	13	В	25	С
2	С	14	С	26	В
3	В	15	В	27	D
4	А	16	D	28	С
5	С	17	В	29	А
6	С	18	С	30	А
7	В	19	D	31	С
8	А	20	А	32	D
9	В	21	D	33	А
10	А	22	В	34	В
11	А	23	С	35	D
12	С	24	В	36	А

5. Metals and Non Metals

1. The metal which is liquid at room temper	ature among the following is
A. Magnesium	B. Copper
C. Mercury	D. Sodium
2. Metals form type of ions by donating e	electrons.
A. Negative ions	B. Positive ions
C. Both positive and negative ions	D. Neutral
3. The compound formed when metals react	s with oxygen
A. Acidic oxide	B. Basic oxide
C. Neutral oxide	D. None of these
4. Examples for amphoteric oxides among the	ne following are
A. Sodium oxide and Magnesium oxide	de
B. Aluminium oxide and Zinc oxide	
C. Copper oxide and Magnesium oxic	le
D. Ferrous oxide and sodium oxide	
5. Thi s metal can be easily cut with a knife	
A. Sodium	B. Gold
C. Silver	D. Zink
6. The good heat conducting metals among t	the following are
A. Silver and Copper	B. Copper and Iron
C. Lead and Mercury	D. Zinc and Iron
7. Comparatively poor heat conducting meta	als among the following are
A. Silver and Copper	
B. Copper and Iron	
C. Lead and Mercury	
D. Zinc and Iron	
8. Suitable method to avoid rusting of Iron t	
A. Greasing	B. Painting
C. Galvanising	D. All of these
9. An element reacts with oxygen and forms	
point. This compound further dissolve	-
A. Calcium	B. Carbon
C. Silicon	D. Iron
can notice here is	re of length 2 km. The property of metal we
A. Ductility	P Mallaability
C. Sonority	B. Malleability D. Luster
-	
11. School bells are made of metals. The pro	operty of metal we can notice here is
A. Ductility	B. Malleability
C. Luster	D. Sonority

12. Aluminium reacts with air (Oxygen) to form Aluminium oxide. The correct equation showing the above reaction among the following is

A. $2Al + O_2 \rightarrow 2AlO$	B. $2Al + 3O_2 \rightarrow 2AlO_3$	
C. $4Al + 3O_2 \rightarrow 2Al_2O_3$	D. 4Al + $2O_2 \rightarrow 2AlO_2$	
13. The metals which melt when we put them on our palm are		

A. Sodium and Potassium	B. Gallium and Cesium
C. Mercury and Magnesium	D. Zinc and Tin

14. One among the following is the hardest substance in nature and also it is allotrope of Carbon.

A. Graphite	B. Charcoal
C. Coke	D. Diamond

15. One among the following is a good conductor though it is a non-metal

A. Sulphur	B. Iodine
C. Coke	D. Graphite

- 16. The metals like Aluminium, Iron and Zinc form their respective oxides and release hydrogen only in the following situations.
 - A. When reacts with hot water
 - B. When reacts with cold water
 - C. When reacts with steam
 - D. All of the above
- 17. When metal reacts with Nitric acid, Hydrogen gas is not released because,
 - A. Nitric acid is a strong oxidizer
 - B. It Oxidises the Hydrogen released to form water
 - C. It reduces itself to any one of the oxides of Nitrogen
 - D. All the above
- 18. When these metals react even with cold water, reaction is violent, exothermic and evolved Hydrogen immediately catches fire. Those metals are

A. Zinc and Magnesium	B. Sodium and Potassium				
C. Aluminum and Copper	D. Gold and Silver				

19. The correct option with respect to reactivity series of metals among the following

A. $K > Na > Ca > Mg$	B. Na > K > Ca > Mg
C. Ca > Na > K > Mg	D. Mg > Ca > Na > K

20. The correct descending order of the metals Zinc, Aluminium, Iron and Magnesium with respect their reactivity among the following is

A. Zinc > Iron > Aluminium > Magnesium

B. Magnesium > Aluminium > Zinc > Iron

C. Aluminium > Zinc > Iron> Magnesium

- D. Iron> Magnesium > Aluminum > Zinc
- 21. Metal used in galvanization to protect steel and iron from rust

A. Zinc	B. Copper
C. Iodine	D. Nickel

22. The process in which carbonate ore is converted to oxide in the presence of limited air and high temperature

A. Roasting	B. Electrolytic refining
C. Calcination	D. Electroplating

23. The process in which sulphide ore is converted to oxide in the presence of excess air and high temperature

A. Roasting	B. Calcination
C. Electrolytic refining	D. Electroplating

24. The metal which is present in the alloys of bronze and brass

A. Iron	B. Copper
C. Lead	D. Nickel

25. Metals which are obtained in free form

A. Gold, Silver and Platinum

B. Sodium and Magnesium

C. Copper, Nickel and Lithium

D. Aluminium

26. Impurities such as sand and soil which are present in the ore mined from the earth are called

A. Gangue	B. Waste
C. Minerals	D. Impurities

27. Ionic compounds conduct electricity when they are in

A. Solid state	B. Molten state
C. Kerosene	D. Gaseous state

28. In the process of electrolytic refining the pure metal is deposited at

- A. Anode B. Cathode
- C. Bottom D. Electrolyte
- 29. Iron is never used in its pure state this is because
 - A. Iron quickly converts into other element
 - B. Pure iron is very soft and stretches easily when hot
 - C. It is difficult to collect pure iron
 - D. All of the above
- 30. Ionic compounds are hard and have high melting and boiling point because
 - A. They have impurities
 - B. They obtained in the form of rock
 - C. Considerable amount of energy is required to break
 - the strong inter ionic attraction
 - D. They have weak ionic bond
- 31. If one of the metal in an alloy is mercury then the alloy is called
 - A. Cinnabar B. Azurite
 - C. Anode mud D. Amalgam
- 32. A bond which is formed by the transfer of electrons from a metal to a non metal is known as
 - A. Covalent bond
 - B. Ionic bond
 - C. Metallic bond
 - D. Hydrogen bond
- 33. The ore of mercury is
 - A. Hematite B. Cinnabar
 - C. Limonite D. Siderite
- 34. Pure metal is obtained by the process of
 - A. Calcination B. Roasting
 - C. Electrolytic refining D. Displacement

35. Atomic number of an element X is 11 and the atomic number of an element Y is 17. The type of bond formed between these two elements

A. Hydrogen bond	B. Covalent bond		
C. Ionic bond	D. Metallic bond		

36. Which of the following pairs will give displacement reaction?

A. NaCl solution and Copper metal B. MgCl₂ solution and aluminium metal

C. FeSO₄ solution and Silver metal D. AgNO₃ solution and Copper metal.

37. Food cans are coated with Tin not with Zinc because

$D, \Delta \Pi C \Pi C \Pi C \Pi C \Pi U \Pi C \Pi U \Pi U \Pi U \Pi U$	A. Zinc is costlier than tin	B. Zinc has a higher melting point than tin.
---	------------------------------	--

C. Zinc is more reactive than tin. D. Zinc is less reactive than tin.

38. Silver articles become black when they exposed to air because

A. It reacts with Sulphur in the air

B. It reacts with moist carbon dioxide in the air

C. Reacts with oxygen in the air

D. None of the above

39. The substance used in the Thermit process for joining railway tracks

- A. Aluminium with iron (III) oxide B. Aluminium with iron (II) oxide
- C. Aluminium with Copper (III) oxide D. Aluminium with copper (II) oxide

40. When copper reacts with moist Carbon dioxide in the air, it gets green coat on it. This is because of the formation of

A. Copper oxide	B. Copper carbonate
11. Copper onide	D. Copper curbonate

C. Copper bicarbonate

D. Copper sulphide

KEY ANSWER

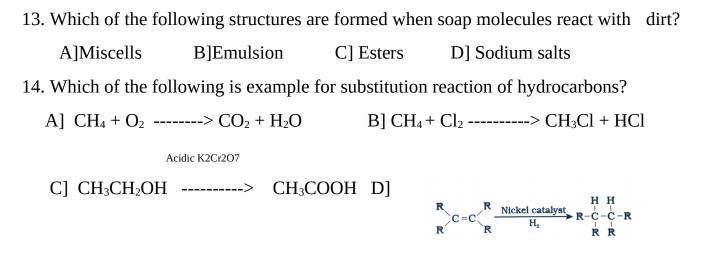
- 1 C. Mercury
- 2 B. Positive ions
- 3 B. Basic oxide
- 4 B. Aluminium oxide and Zinc oxide
- 5 A. Sodium
- 6 A. Silver and Copper
- 7 C. Lead and Mercury

- 8 D. All of these
- 9 A. Calcium
- 10 A. Ductility
- 11 D. Sonority
- 12 C. $4Al + 3O_2 \rightarrow 2Al_2O_3$
- 13 B. Gallium and Cesium
- 14 D. Diamond
- 15 D. Graphite
- 16 C. When reacts with steam
- 17 D. All the above
- 18 B. Sodium and Potassium
- 19 A. K > Na > Ca > Mg
- 20 B. Magnesium > Aluminium > Zinc > Iron
- 21 A. Zinc
- 22 C. Calcination
- 23 A. Roasting
- 24 B. Copper
- 25 A. Gold, Silver and Platinum
- 26 A. Gangue
- 27 B. Molten state
- 28 B. Cathode
- 29 B. Pure iron is very soft and stretches easily when hot
- 30 C. Considerable amount of energy is required to break the strong inter ionic attraction
- 31 D. Amalgam
- 32 B. Ionic bond
- 33 B. Cinnabar
- 34 C. Roasting
- 35 C. Ionic bond
- 36 D. AgNO₃ solution and Copper metal
- 37 C. Zinc is more reactive than tin
- 38 A. It reacts with Sulphur in the air
- 39 A. Aluminium with iron (III) oxide
- 40 B. Copper carbonate

7. CARBON & ITS COMPOUNDS

1. Ca	rbon forms strong	bonds because	of				
	A] Its electronic configuration			B] Small size of carbon atom			
	C] Formation of ions			D] Formation of covalent bond			
2. Fo	rmation long chain	of carbon by	bondir	ng with other o	carbo	n atoms is	called
	A] Catenation	B]Isomerism	C	Homology	D]	Allotropi	sm
3. Etł	nane with the mole	cular formula	C ₂ H ₆ ł	nas			
	A] 6 Covalent bo	nds		B] 7 Covaler	it bon	ds	
	C] 8 Covalent bo	nds		D] 9 Covaler	nt bon	lds	
4. WI	hich of the followi	ng molecular f	ormula	a is not correc	t		
	A] Propane C ₃ H ₈		B]But	ane C ₄ H ₁₀			
	C]Pentane C ₅ H ₁₀		D]He	xane C_6H_{14}			
5. Co	mpounds having s	ame molecular	form	ıla but differe	ent sti	ructures ai	e called
	A] Isomers	B]Homologo	ous sei	ries C] A	llotro	opes	D] Esters
6. WI	hich of the followi	ng contains on	ly sing	le bond			
	A] Alkenes			B] Alkynes			
	C] Aromatic hydr	rocarbons		D]Alkanes			
7. In	CH ₃ OH which fur	nctional group	is pres	ent			
	A] Alcohol	B] Aldehyd	e	C] Ketone		D] Carbo	oxylic acid
8. WI	hich of the followin	ng is the functi	onal g	roup of aldeh	yde?		
	A]-OH	B]–CHO		C] -CO		D] -COC	θH
9. WI	hich functional gro	up is present in	n buta	none?			
	A]-OH	B]–CHO		C] -CO		D] -COC	θH
10. W	hich heteroatom i functional group	1	or alco	ohol, aldehyde	e and	carboxylio	c acid
	A] O	B] C		C] H		D] Cl	
11. N	Aembers of homol	ogous series di	ffers t	у			
	A] CH ₃	B]CH ₂		C] CH ₄		$D] C_2H_4$	
12. G	eneral formula of	alkanes is					
	A] C_nH_{2n+2}	B]C _n H _{2n-2}		C] C_nH_n		D] $C_{2n}H_2$	n

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15. Process of converting unsaturated vegetable oils into saturated fats is called

A] Substitution reaction B] Oxidation C] Hydrogenation D] Esterification 16. Sodium/Potassium salts of long chain carboxylic acid is called

A] Detergent B] Soap C] Sodium carbonate D] Potassium carbonate

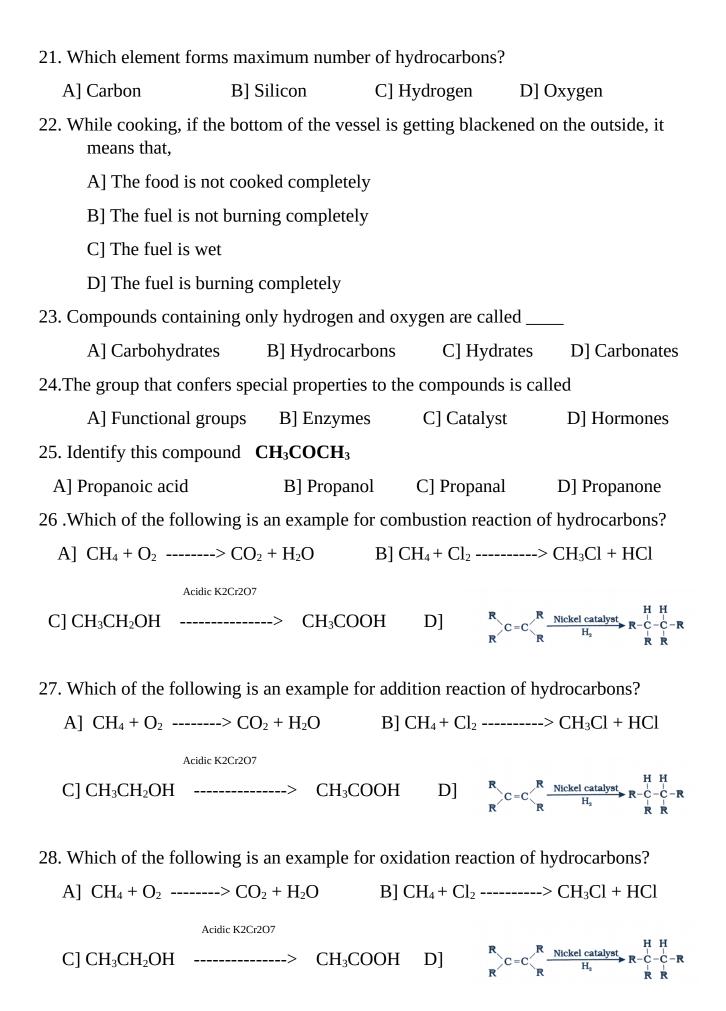
- 17. Which of the following statement is wrong?
 - A] Carbon compounds are bad conductors of electricity
 - B] Carbon compounds are covalent compounds
 - C] Boiling and melting points of covalent compounds is low
 - D] Valency of carbon is 6

18. **C**⁴⁻ anion is not formed because

- A] It is difficult for the nucleus with 6 protons to hold on to 10 electrons
- B] More amount of energy is required to remove four electrons
- C] It is difficult for the nucleus with 10 protons to hold on to 4 electrons
- D] More amount of energy is required to remove two electrons
- 19. Bond formed by sharing of electrons between two atoms is

A] Covalent bond B] Ionic bond C] Hydrogen bond D] Metallic bond 20. Identify the wrong electron dot structure among the following





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29.Conversion of unsaturated hydrocarbons into saturated hydrocarbons by the addition of hydrogen in presence of nickel catalyst is called which type of reaction?

A] Substitution reaction		B] Oxidation reac	ction		
C] Addition reaction		D] Esterification			
30. A reaction in which or is called	ne type of atom/gro	oup of atoms taking	g the place of another		
A] Substitution react	A] Substitution reaction		B] Oxidation reaction		
C] Addition reaction		D] Esterification			
31. In a soap molecule ion following respective	-	arbon end reacts w	vith which of the		
A] Water and dirt	B] Dirt and wate	er C] Cloth and w	vater D] Water and cloth		
32. Which of the followin dirt?	ng structures are fo	ormed when soap n	nolecules reacts with		
A] Micelles	B] Emulsion	C] Esters	D] Sodium salt		
33. Which of the following	g ions reduce the f	functionality of soa	ıp?		
A] Ca & Mg	B]Na & Ca	C] Na & Mg	D] Na & Cl		
34.Sodium salts of sulpho	nic acid are called				
A] Detergent		B] Soap			
C] Sodium carbonate		D] Potassium carbonate			
35. Molecular formula of	cyclohexane is				
$A] C_6 H_6$	$B]C_{6}H_{12}$	C] C ₆ H ₁₄	D] C ₆ H ₁₀		
36. Which of the following	g is an example fo	r unsaturated hydro	ocarbon?		
A] C_6H_{14}	$B]C_4H_{10}$	C] C ₂ H ₄	D] C ₅ H ₁₂		
37. Detergent is good clea	nsing agent compa	ared to soap becaus	se		
A] Cleans in hard w	_				
C] Soap pollutes wa	vater also	B] Deterge	nt is biodegradable		
		C	nt is biodegradable prepared from oil		
38. Reason for incomplete	nter and soil	D] Soap is			
38. Reason for incompleteA] Because of present	nter and soil combustion of hy	D] Soap is			
_	nter and soil combustion of hy ce of single bonds	D] Soap is			
A] Because of presen	ater and soil combustion of hy ce of single bonds ydrogen atoms	D] Soap is			

39. A substance which changes rate of reaction without undergoing any change itself is called

A] Hormone B] Oxidising agent C] Reducing agent D] Catalyst

40. Which of the following statement is wrong?

A] Saturated hydrocarbons give clean flame

B] Unsaturated hydrocarbon produce black smoke with yellow flame

- C] Limitation oxygen is responsible for incomplete combustion of hydrocarbons
- D] Butane burns with sooty flame

			Key a	nswers			
Q.No	Answer	Q.No	Answer	Q.No	Answer	Q.No	Answer
1	В	11	В	21	А	31	А
2	А	12	А	22	В	32	A
3	В	13	А	23	В	33	A
4	С	14	В	24	A	34	A
5	А	15	С	25	D	35	В
6	D	16	В	26	A	36	С
7	А	17	D	27	D	37	A
8	В	18	А	28	С	38	С
9	С	19	А	29	С	39	D
10	А	20	b	30	A	40	D

8. PERIODIC CLASSIFICATION OF ELEMENTS

1.An atom of an element has the electronic configuration 2,8,2. In the periodic table ,it belongs to the group

A. 2nd group B. 8th group C. 10th group D. 12th group

2.A metal 'M' is in the first group of the periodic table. What will be the formula of its oxide?

A. MO B. M₂O C. M₂O₂ D. MO₂

3. Which of the following set of elements is written in the increasing order of their metallic character

A. Na	Li	К	B. C	0	Ν
C. Mg	Al	Si	D. Be	Mg	Ca

4. 18th group elements of the modern periodic table usually

A. form ionic bond with other elements

B. form covalent bond with other elements

C. form hydrogen bond

D. do not form chemical bond with other elements.

5. The elements that belong to the same period among the following are

Element	А	В	С
Atomic number	2	10	5

A. A and BB. B and CC. C and AD. A, B and C

6. The atomic number of an element is 19. In the periodic table, this element belongs to the period

A. 4 B. 3 C. 5 D. 6

7. In modern periodic table as we move along a period, the atomic size of the elements

A. decreases	B. does not change
--------------	--------------------

reases
С

8. The atomic number of an element is 12. Total number of shells that present in this atom is

```
A. 2 B. 3 C. 4 D. 5
```

9. The atomic numbers of the elements A, B, C, D and E are 7, 10, 12, 4 and 19 respectively. Which of the element among the following is a noble gas C. E A.B B.D D.C 10. The element which has zero valency among the following is C. Silicon D. Sodium A. Carbon B. Argon 11. The atomic number of Chlorine is 17. The number of valence electrons that present in this element is A. 7 C. 10 B. 5 D. 1 12. The elements of the second period in the periodic table are given below. The element with more electropositivity among the following is li. Be С Ν F B 0 A. Be B. Li C. N D.F 13. Fluorine (atomic number=9) and Chlorine (atomic number=17) belong to the group 17 of the periodic table. Which of these will be less electronegative? B. Both Fluorine and Chlorine C. Chlorine B. Non of these A. Fluorine 14. If an element 'X' is placed in group 14, what will be the formula of its chloride?

A. XCl₄ B. XCl₂ C. XCl D. XCl₃

15.Lithium, Sodium and potassium form a Dobereiner's triad. The atomic mass of Lithium and Potassium are 7 and 39 respectively. Then atomic mass of Sodium is

A. 25 B. 30 C. 23 D. 46

16. An example of metalloid among the following is

A. Beryllium B. Sodium C. Sulphur D. Arsenic

17. In modern periodic table as we move along a period , the metallic nature of the elements

A. decreases	B. does not change
C :	

C. increases C. first increases and then decreases

18. In modern periodic table as we move down a group, the metallic nature of the elements

A. decreases	B. does not change
C. increases	C. first increases and then decreases

19. In modern periodic table as we move along a period, electropositive nature of the elements

A. decreases B. does not change

C. increases C. first increases and then decreases

20. In modern periodic table as we move down a group, electropositive nature of the elements

A. decreases	B. does not change

C. increases C. first increases and then decreases

21. In modern periodic table as we move along a period, electronegative nature of the elements

A. decreases	B. does not change	

C. increases C. first increases and then decreases

22. In modern periodic table as we move down a group, electronegative nature of the elements

A. decreases	B. does not change

C. increases C. first increases and then decreases

23. The atomic number of Phosphorous is 15. In the periodic table, it belongs to the block

A. 's' block B. 'p' block C. 'd' block D. 'f' block

24. The arrangement of elements in the modern periodic table based on their

- A. increasing atomic mass in the period
- B. increasing atomic number in the horizontal rows

C. increasing atomic number in the vertical columns

D. increasing atomic mass in the group

25. The position of some elements in the periodic table is given in the following table. The element that has non-metallic nature with valency 3 is

PERIOD			1		
2	С		0	F	Ne
3	Si	Р	S		Ar

26. The element which has a total of 3 shells with 4 electrons in its valence shell among the following is

A. Carbon B. Nitrogen C. Silicon D. Sodium

27. Four elements A, B, C and D have atomic numbers 16,11, 3 and 14 respectively. The correct arrangement of these elements in the decreasing order of their atomic size is

A. C>A>D>B B. D>C>A>B C. B>D>A>C D. A>C>B>D

28. The following table shows four elements P, Q, R and S along with their electronic configuration. The elements which belong to the same period are

Elements	Р	Q	R	S
Electronic	2, 8, 2	2,6	2, 8, 8,1	2,8,6
Configuration				

A. Elements P and S	B. Elements P and R
C. Elements R and S	D. Elements Q and S

29. Noble gases are kept in the separate group in the modern periodic table . Because

A. valency of these elements is usually zero.

B. they do not form chemical bond easily with other elements.

C. they have completely filled shells or octet structure

D. All of the above

30. The main limitation of Mendeleve's periodic table is

A. there is no fixed position for Hydrogen in the periodic table

B. there is a separate group for inert gases

C. arrangement of elements based on the increasing order of their atomic numbers

D. there is fixed position for isotopes

KEY ANSWERS

1. A. 2nd group

- 2. B.M₂O
- 3. D. Be Mg Ca

- 4. D. do not form chemical bond with other elements.
- 5. B. B and C
- 6. A. 4
- 7. A. decreases
- 8. B. 3
- 9. A. B
- 10. B. Argon
- 11. A. 7
- 12. B. Li
- 13. C. Chlorine
- 14. A. XCI_4
- 15. C.23
- 16. D.Arsenic
- 17. A. decreases
- 18. C. increases
- 19. A. decreases
- 20. C. increases
- 21. C. increases
- 22. A. decreases
- 23. B. 'p' block
- 24. B. increasing atomic number in the horizontal rows
- 25. A. P
- 26. C. Silicon
- 27. C. B>D>A>C
- 28. A. Elements P and S
- 29. D. All of the above
- 30. A. there is no fixed position for Hydrogen in the periodic table

BIOLOGY

9. Life Processes

	9. Life Pl	TUCESSES	
1. A blood vessel which bring the	ne blood from	entire body to the hear	I
A. Arteries. B. Cap	pillaries C	. Veins.	D. Aorta
2. The part of the heart which pr	revent the mixi	ng of oxygenated blood	l and deoxygenated
blood			
A. Septum. B. Art			D. Veins
3. These structures prevents flow	0		
0	Valves C		D. Capillaries
4. The tissue which transports w			
-		C. Companion cells	-
5. The tissue which transport proof the plant	oducts of the p	notosynthesis from leav	ves to the other parts
A. Xylem. B. Phl	oem. C	C. Companion cells.	D. Parenchyma
6. The process by which blood a	goes twice thro	ough the heart during ea	ch cycle in
vertebrates.			
A. Heartbeat. B. Tra	nsportation (C. Blood pressure D.	Double circulation
7 . Function of lymph is			
A. transports carbon diox	ide		
B. transports oxygen			
C. transports waste mater	ials		
D. carries digested and ab	sorbed fat from	n intestine	
8. Function of platelets in the bl			
A. transports oxygen		C. clots the blood	D. Transports fat
9. In plants which one of these e	2		· · · · · · · · · · · · · · · · · · ·
-	B. Stomata	C. Phloem.	D. Roots
10. Structural and functional uni			
	B. Nephron	C. Renal artery.	D. Renal vein
11. Substances which are filtered	-	-	
A. Nitrogenous wastes su			C
B. Glucose and amino aci			
C. Salts and water only	5		
D. All of the above			
12. The statement which is wror	ng about the str	rategies used by plants	for Excretion
A. Stores resins and gums	s in old xylem		
B. Loose some parts such	as leaves		
C. Get rid of excess water		on	
D. Excretes waste materia	2		
	0 10		

13. Advantage of 4 chambered heart in human being is

A. Avoid mixing of oxygenated blood and deoxygenated blood

B. Maintain constant temperature

C. It Works with more efficiency

D. Above all

14. The right way for blood become deoxygenated blood to oxygenated blood

A. Right ventricle \rightarrow pulmonary artery \rightarrow lungs

B. Right ventricle \rightarrow pulmonary vein \rightarrow lungs

C. Left ventricle \rightarrow pulmonary artery \rightarrow lungs

D. lungs \rightarrow pulmonary vein \rightarrow left atrium

15. The blood vessels which bring blood to kidney for filtration

A. Renal veins B. Renal arteries C. Coronary artery D. Pulmonary artery 16. The chamber in the heart that pumps deoxygenated blood and blood vessel which carries blood into the lungs are

A. Left atrium & Aorta

B. Right ventricle & Pulmonary vein

C. Right atrium & Vena-cava from upper body

D. Right ventricle & Pulmonary artery

17. Correct choice for arteries found in the human circulatory system.

A. These have a thick elastic wall and the blood flows under high pressure.

B. These walls are thin and blood flows under low pressure.

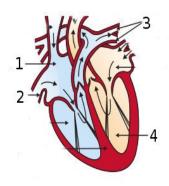
C. These walls are thin and blood flows under high pressure.

D. These have a thick elastic wall and the blood flows under low pressure.

18. Transportation of photosynthetic products which are soluble in phloem tissue is known as

A. TranspirationB. TranslocationC. RespirationD. Evaporation19. The arrangement of the correct parts to the numbers given in the figure of human heartbelow

- A. 1- Left atrium, 2-vena cava from lower body, 3 -pulmonary vein, 4-Right ventricle
- B. 1- Right atrium, 2-vena cava from upper body,3-Aorta , 4-right ventricle
- C.1-Right atrium, 2-vena cava from lower body, 3-Pulmonary arteries, 4-left ventricle
- D. 1-Left atrium, 2-vena cava from upper body,3-pulmonary vein, 4-left ventricle



20.In most of plants the wastes are stored in this organelle of the cell .s A. Mitochondria **B.** Chloroplast C. Ribosomes D. Vacuole 21. A colourless fluid having less protein content, that is similar to plasma in blood is A. Tissue fluid B. White blood cells C. Red blood cells **D**. Platelets 22. The blood vessels which brings deoxygenated blood from heart to lungs are . A. vena cava from lower body B. Pulmonary artery D. Aorta C. pulmonary vein 23. The blood vessels which bring oxygenated blood from lungs to left atrium are A. vena cava from lower body B. Pulmonary artery D. Aorta C. pulmonary vein 24. The blood vessel which transport oxygenated blood from heart to all parts of body is A. Aorta B. Pulmonary artery C. pulmonary vein D. vena cava from lower body 25. The transport of soluble products of Photosynthesis in Phloem tissue is called A. Transpiration B. Photo synthesis C. Diffusion **D.** Translocation 26. The part in which, soluble nitrogenous waste is filter out from the blood A. Heart **B.** Lungs C. Kidneys **D**. Ureters 27. In these type of animal the blood pass through heart only once in each blood circulation. A. Fishes **B.** Reptiles C. Birds D. Human beings 28. Observe the following type of blood circulation, based on this identify wrong statement given below. A. This is useful for animals who need high energy B. This type of circulation helps maintain body temperature

C. The body temperature of these animals depends on the

temperature of the atmosphere

D. Do not mix oxygen rich blood and deoxygenated blood

29. Major function of the kidney in humans

A. Nutrition B. Respiration C. Excretion D. Transportation

- 30. Incorrect statement related to xylem is
 - A. It has tracheids and tube
 - B. Transport of water from root to all part of plant through it
 - C. It is one of vascular tissue
 - D. Photosynthetic product transport through it

	Life process					
	Answer Key					
1	C. Veins.	2	A. Septum.			
3	B. Valves	4	A. Xylem.			
5	B. Phloem.	6	D. Double circulation			
	D. carries digested and absorbed fat from intestine.	8	C. clots the blood			
9	C. Phloem.	10	B. Nephron.			
11	D. All of the above	12	C. Get rid of excess water by			
			translocation			
13	D. Above all	14	A. Right ventricle \rightarrow pulmonary artery			
			→ lungs			
15	B. Renal arteries		D. Right ventricle & Pulmonary artery			
	A. These have a thick elastic wall and	18	B. Translocation			
	the blood flows under high pressure.					
	C. 1-Right atrium, 2- vena cava from	20	D. vacuole			
	lower body 3-Pulmonary arteries , 4-					
	left ventricle					
	A. Tissue fluid	-	B. Pulmonary artery			
23	C. pulmonary vein	24	A. Aorta			
25	D. Translocation	26	C. Kidneys			
27	A. Fishes	28	C. The body temperature of these			
			animals depends on the temperature of			
			the atmosphere			
29	C. Excretion	30	D. Photosynthetic product transport			
			through it			

10. Control and Co-ordination

1.On touching a hot plate you suddenly withdraw your hand, which category of neurons became active first and which one next...

A) Sensory neuron and Motor neuron B) Motor neuron and Sensory neuron

C) Relay neuron and Sensory neuronD) Relay neuron and Motor neuron2.Part of the body that controls reflex action is...

A) Spinal cordB) BrainC) NervesD) Hypothalamus3. Part of the neuron where the impulse is converted in to chemical signal for onwardtransmission

A) AxonB) SynapseC) DendriteD) Cell body4. Identify the parts of neuron...

i] Where information is acquired.

ii] Through which information travels as an electrical impulse.

iii] Where this impulse is converted in to a chemical signal.

A) i] Synapse	ii] Dendrites	iii] Axon
---------------	---------------	-----------

- B) i]Dendrites ii] Axon iii]Synapse
- C) i]Axon ii] Dendrites iii]Synapse
- D) i]Dendrites ii]Synapse iii]Axon

5. Correct sequence of components in a reflex arc.

- A) Relay neuron -> receptors -> sensory neuron -> motor neuron -> effector
- B) Receptors -> relay neuron -> effector -> motor neuron -> sensory neuron
- C) Sensory neuron ->motor neuron->receptor -> relay neuron -> effector
- D) Receptors -> sensory neuron -> relay neuron -> motor neuron -> effector

6. Parts of the central nervous system are

A) Brain and Cranium

C)Brain and Spinal cord

7.Brain is protected by.....

A) Cranium

C) Cerebrospinal fluid

8.Seat of consciousness in our brain is....

A)Pons

C)Medulla

B) Spinal cord and Cranium

- D) Vertebral column and Spinal cord
- B) Cranium and cerebrospinal fluid
- D) Vertebral column

B)Cerebellum D)Cerebrum

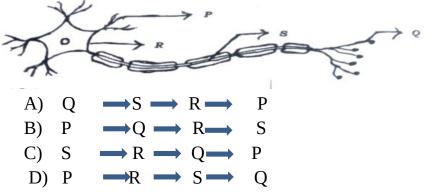
9. In plants, the communication of information occurs by the method of,

- A) Electro-Chemical methodC) Reflex-action method
- B) Chemical methodD) Electro- communication method
- 10. The leaves of a plant at the stage of fall, the hormone responsible for this is, A) Auxin B)Gibberellin C) Abscisic acid D) Cytokinin

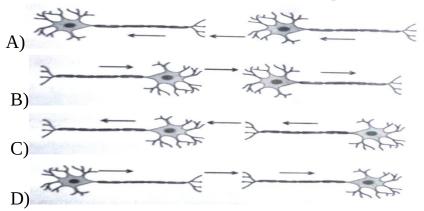
11. Plant cells change the shape while communicating the information. The reason for this change in cells is the change in the ,

chunge in cens is u	c chunge in the,		
1) Quantity o	of proteins	2) Quantity of Water	
3)Quantity of Carbohydrates		4) Quantity of Minera	ls
A) 1only	B) 2 only	C) 1 and 2 only	D) 1 and 4 only
12. Hormone contro	olling the metabolism	of carbohydrates, protei	ins and fats is,
A) Thyroxin	B) Adrenal	in C) Insulin	D) Glucagon
13. A doctor sugges	st the person to use les	s sugar in food, the reas	son is ,
A) Growth is	5	B) Suffering from d	
,		D) Infected by covid	
-		owth of a tendril around	
·	ellin B) Auxin	· •	D) Abscisic acid
	he difference in blood	glucose level is,	
A) Imbalan	ced insulin secretion		
B) Imbalan	ced glucagon secretion	n	
C) Imbaland	ced insulin and glucag	on secretion	
D) Balance	l insulin and imbalanc	ed glucagon	
16. A person can't	walk straight, can't rid	le a bicycle, and can't p	ick up a pencil, after he
met with an accider	nt, the part of the brain	that is damaged is	
A) Medul	lla B) Cereb	rum C) Pons	D) Cerebellum
17. The function of			
,	g blood pressure level	,	•
C) Controllin	u	D) All the ab	
		posture and balance of t	
	,	C) Cerebellum	D) Hind-brain
-	ce of components in a		
		ory neuron -> motor ne	
ý -	2	iy neuron –> motor neu	
, <u>-</u>		receptor —> relay neuro	
D) Receptors->1	relay neuron -> effect	or –>motor neuron–>se	nsory neuron
20. Correct path of	impulse transmission	in the neuron	
A) Cell body	->axon -> dendrites -	-> nerve ending	
	endrites -> cell body-	C	
C) Dendrites	-> cell body -> axon	-> nerve ending	
,	-> axon -> cell body	C C	
-	sible for the dwarfnes	-	
A) Thyroxin	B) Growth hormone	C) Insulin	D) Adrenalin

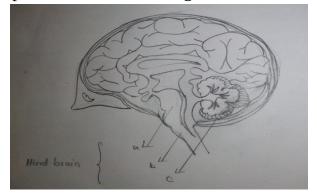
22. The correct path of the movement of nerve impulses in the following diagram is,



23. Which is the correct direction of flow of impulse in the following diagrams



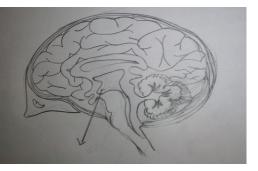
24) The correct order of parts marked in the diagram is



A) a .Medulla ,	b. Pons ,	c.Cerebellum
B) a.Medulla ,	b.Cerebellum ,	c.Pons
C) a.Cerebellum	, b.Medulla ,	c.Pons
D) a.Pons ,	b.Medulla,	c. Cerebellum
		1

25) The function of the part marked in the diagram is

A)Sensation of eaten enoughB)Seat of consciousnessC)Controlling involuntary actionsD)Maintaining equilibrium



26. The situation where auxin is secreted during the growth of the plant stem in length, A) When recepts Heat B) when recepts humidity C) When recepts light D) Both A and C 27. The movement of sunflower towards sun is, A) Hydrotropism B) Phototropism D) Chemotropism C) Geotropism 28. A person is afraid of seeing a snake. The hormone brings his body to the normal condition is, A) Thyroxin B) Adrenalin C) Testosterone D) Progesterone 29. Hormones which induces the growth of a plant, A) Auxin, Gibberellin, Cytokinin B) Auxin, Gibberellin, Abscisic acid C) Gibberellin, Abscisic acid, Cytokinin D) Abscisic acid, Cytokinin, Auxin 30. The emergency hormone in human body is, A) Insulin **B)** Testosterone C) Thyroxin D) Adrenalin 31. The changes associated with puberty in males and females by the secretion of _____ hormones respectively. A) Testosterone ,estrogen B) Estrogen, Testosterone D) Testosterone, Progesterone C) Estrogen, Progesterone 32. This disease can be controlled by the secretion of hormone from pancreas A) Diabetes B) Night blindness C) Anaemia D) Simple goiter 33. The gland which secretes the hormone inducing growth A) Pancreas B) Thyroid C) Adrenal D) Pituitary 34. The part of male reproductive system which secretes testosterone A) Testis B) Prostate gland C) Seminal vesicles D) Pituitary

KEY-ANSWERS

- 1. A) Sensory neuron and Motor neuron
- 2. A) Spinal cord
- 3. B) Synapse
- 4. B) i]Dendrites ii]Axon iii]Synapse
- 5. D) Receptors sensory neuron relay neuron motor neuron effector
- 6. C) Brain and Spinal cord
- 7. B) Cranium and cerebrospinal fluid
- 8.D) Cerebrum
- 9. A) Electro-Chemical method
- 10. C) Abscisic acid
- 11.B) 2 only
- 12. A) Thyroxin
- 13.B) Suffering from diabetes
- 14.B) Auxin
- 15.A) Imbalanced insulin secretion
- 16.D) Cerebellum
- 17. D) All the above
- 18. C) Cerebellum
- 19. B) Receptors -> sensory neuron->relay neuron -> motor neuron -> effector
- 20. C) Dendrites -> cell body -> axon -> nerve ending
- 21. B) Growth hormone
- 22. D) P

 $P \longrightarrow R \longrightarrow S \longrightarrow Q$

- 23. C)
- 24. D) a.Pons ,b.Medulla , c. Cerebellum
- 25. A) Sensation of eaten enough
- 26. C) When recepts light
- 27. B) Phototropism
- 28. B) Adrenalin
- 29. A) Auxin, Gibberellin, Cytokinin
- 30. D) Adrenalin
- 31. A) Testosterone ,estrogen
- 32. A) Pancreas
- 33. D) Pituitary
- 34. A) Testis

11. OUR ENVIRONMENT

1. The formula for th	e ozone molecule			
A) O ₂	B) O ₃	C) O ₄	D) O ₆	
2. The number of ox	ygen atoms in ozone			
A) 4	B) 6	C) 3	D) 2	
3. Chemical substand	ce that causes the ozor	ne layer to collaps	e / decrease	
A) carbon tetr	oxide	B) chlore	ofluoro carbon	
C) methane		D) carbo	n monoxide	
4. Radiation that con	verts atmospheric oxy	gen into ozone		
A) gamma rad	iation	B) infra-	red radiation	
C) cosmic rad	iation	D) ultra-	violet radiation	
5. Chemical used in	decomposition and fir	e extinguishers		
A) methane		B) chlor	ofluoro carbon	
C) nitrogen		D) carbo	on dioxide	
6. The ozone layer is	necessary because,			
A) it absorbs i	nfrared radiation and	B) it abs	B) it absorbs heat	
C) it absorbs	solar radiation	D) it abs	orbs ultra-violet radiation	
7. The following are	the groups that under	go biodegradation	l	
a. wood, p	aper, PVC	b. paper,	nuts, detergent	
c. paper, ar	nimal waste, wood	d. cotton	, leaves, paper	
A) a. b. c.	B) b. c. d.	C) a. & b. only	D) c. & d. only	
8. The effect of ultra	-violet radiation on hu	ıman is		
A) increase in	imunity	B) becau	ise damage to the lungs	
C) skin cancer		D) dama	ge to the nervous system	
9. Make it mandator	y to make CFC-free re	efrigerators for oz	one protection launched in	
A) in 1987	B) in 1985	C) in 1983	(D) in 1980	
10.Correct statement	of these with respect	to biodegradable	materials; These things	
A) remain inert in the environment for a long time				
B) causing damage to many organisms of the ecosystem				
C) increasing concentrations of harmful chemicals in different feeding layers				
D) the environment is naturally recycled				

11. Two - stage equation of ozone layer formation

- A) 1) $O_2 \longrightarrow O + O$ 2) $O + O_2 \longrightarrow O_3$
- B) 1) $O_2 + O \xrightarrow{UV} O 2) O_2 + O \xrightarrow{UV} O_3$
- C) 1) $O_2 + O_2 \xrightarrow{UV} O_3$ 2) $O_2 + O_3 \xrightarrow{UV} O_3$
- D) 1) $O + O \xrightarrow{UV} O_2$ 2) $O_2 + O \xrightarrow{UV} O_3$
- 12. Which of the following are eco-friendly practices?
 - A) carrying cloth bags for shopping
 - B) switch off unnecessary lights and fans
 - C) walking on foot instead of your mother's two-wheeler to school
 - D) all the above are correct
- 13. Do not use plastic cups once in a while because
 - A) they are made of lighter material B) they are poisonous
 - C) they are biodegradable materials D) they are not biodegradable

14. The phenomenon whereby some chemical substances that are non biodegradable occupy the upper levels of the food chain at optimum concentration

- A) energy magnification B) bio magnification
- C) speed enhancement D) chemical magnification
- 15. Now a days, we have a lot of garbage the main reasons are
 - A) our life style has changed B) overuse of disposable materials
 - C) altered packaging methods D) all the above are correct
- 16.Abbreviation of 'UNEP'
 - A) United Nations Economic Programme
 - B) United Nations Enlargement Programme
 - C) United Nations Evolution Programme
 - D) United Nations Environment Programme

Key-Answers:

1	2	3	4	5	6	7	8
В	С	В	D	В	D	D	С
9	10	11	12	13	14	15	16
A	D	A	D	D	В	D	D

12. HOW DO ORGANISMS REPRODUCE?

1. The anther contains **B.** Petals A. Sepals C. Ovules D. Pollen grains 2. The part of the plant seed that grows into root on germination. A. Cotyledon B. Endosperm C. Radical D. Seed coat 3. The part of the plant seed that grows and develops into shoot on germination A. Endosperm B. Plumule C. Radical D. Seed coat 4. Which of the following is the correct sequence of events of sexual reproduction in Flower A. Pollination, Fertilization, Seed, Embryo B. Seed, Embryo, Fertilization, Pollination C. Pollination, Fertilization, Embryo, Seed D. Fertilization, Seed, Pollination, Embryo 5. Which of the following is not a part of the female reproductive system in human beings A. Vas deferens B. Ovary C. Uterus D. Fallopian tube 6. Which of the following is not a part of the male reproductive system in human beings C. Vas deferens D. Scrotum A. Testis B. Uterus 7. Which one among one of the following does not belong to female part of flower/ pistil A. Ovary B. Style C. Anther D. Stigma 8. In plants seeds are developed from C. Petals D. Ovules A. Ovary **B.** Sepals 9. Fruits develop from A. Sepals B. Ovary C. Petals D. Ovules 10. Transfer of pollen grains from stamen to stigma is A. Fertilization **B**. Variation C. Pollination D. Mutation 11. A pathogen that causes gonorrhoea and syphilis transmitted through sexual contact. A. Protozoa B. Bacteria C. Virus D. Fungus 12. A pathogen that causes AIDS and warts transmitted through sexual contact A. Protozoa B. Bacteria C. Virus D. Fungus 13. In Plants after Fertilization the zygote divides several times and form B. Seed C. Cotyledon D. Fruit A. Embryo 14. Growing foetus derives nutrition from mother's blood through A. Placenta B. Fallopian tube C. Uterus D. Cervix 15. In flower ovules present in A. Stamen C. Ovary D. Style B. Stigma 16. In flower ovary contains B. Petals C. Pollen grains D. Ovules A. Sepals

17. In Flower, the parts that produce male and female gametes are				
A. Stamen and Anther		B. Filament and Stigma		
C. Anther and Ovary		D. Stamen and S	tyle	
18. Which of the follow	ing not a sexually t	ransmitted disease		
A. Gonorrhoea	B. Syphilis	C. Goiter	D. AIDS	
19. Menstruation usually	y lasts for about			
A. 2 to 5 days		B. 2 to 6 days		
C. 2 to 7 days		D. 2 to 8 days		
20. In human beings Fei	rtilization takes plac	ce		
A. fallopian tube	B. Ovary	C. Uterus D. V	/agina	
21. Germination Of poll	en starts			
A. On stigma		B. In style		
C. In ovary		D. Anther		
22. The innermost part of	of the typical flower	r is		
A. Petals	B. Sepals	C. Pistil	D. Stamen	
23. In male reproductive	e system sperm form	nation takes place	in	
A. Vas deferens		B. Ureter	B. Ureter	
C. Prostate gland		D. Testis		
24. The outermost part of	of the typical flower	r is		
A. Petals		B. Sepals		
C. Pistil		D. Stamen		
25. In male human being	gs which is the com	mon passage for b	oth urine and sperms	
A. Urethra		B. Urinary bladd	er	
C. Penis		D. Ureter		
26. The development of	child inside mother	r's body in humans	s takes approximately	
A. 7 Months		B. 9 Months		
C. 8 Months		D.10 Months		
27. In female reproducti	ve system which pa	art is blocked to av	oid pregnancy	
A. Fallopian tube	B. Ovary	C. Cervix	D. Vagina	
28. Which of the follow beings	ing contraceptive m	nethod is safe to av	oid pregnancy in human	
A. Using condoms	B. Oral pills	C. Copper-T	D. Surgical method	
29. This hormone bring	changes in appeara	nce seen in boys at	t the time of puberty	
A. Thyroxin	B. Testosterone	C. Oestrogen	D. Adrenaline	
30. Remove odd one		0		
A. Hibiscus	B. Papaya	C. Mustard	D. Green pea	

HOW DO ORGANISMS REPRODUCE?				
	Answer Key			
1	D. Pollen grains			
2	C. Radical			
3	B. Plumule			
4	C. Pollination, Fertilization, Embryo, Seed			
5	A. Vas deferens			
6	B. Uterus			
7	C. Anther			
8	D. Ovules			
9	A. Ovary			
10	C. Pollination			
11	B. Bacteria			
12	C. Virus			
13	A. Embryo			
14	A. Placenta			
15	C. Ovary			
16	D. Ovules			
17	C. Anther and Ovary			
18	C. Goiter			
19	D. 2 to 8 days			
20	A. Fallopian tube			
21	A. On stigma			
22	C. Pistil			
23	D. Testis			
24	B. Sepals			
25	A. Urethra			
26	B. 9 Months			
27	A. Fallopian tube			
28	D. Surgical method			
29	B. Testosterone			
30	B. Papaya			

13. Heredity and Evolution

1.Father of Modern	Genetics		
A) Mendeleev	B) Gregor Mend	lel C) Lamarck	D) Charles Darwin
2. A cross between	wo pea plants which c	liffer in one character i	s called
A) Monohybrid cı	oss B) Dihybrid cro	oss C) Mixed hybrid o	cross D) All the above
3. Choose the plant u	ised by Mendel to con	duct his genetical expe	riments
A) Rose	B) Pea	C) Hibiscus	D) Sunflower
4. Phenotypic ratio c	f tall and dwarf plants	in Mendel's Monohyb	orid cross experiment is
A) 2:1	B) 9:3:3:1	C) 3:1	D) 1:1
F2 generation when		periment on pea plant w	l dwarf pea plant (tt) in which has character of
A) 1:3	B) 3:1	C) 1:1	D) 2:1
6. Speciation occurs	in which of the follow	ring situation	
A) Geographical	isolation	B) Natural sel	ection
C) Variation in I	DNA	D) All the abo	ove
7. The transmission	of characters or traits	from the parents to the	offsprings
A) DNA replicat	ion B) Variatio	ons C) Transfer	D) Heredity
8. A cross between t	wo plants which differ	in two specific charac	ters is called
A) monohybrid o	ross	B) dihybrid cross	
C) mixed hybrid	Cross	D) none of the above	2
		have more in common	body design
A) a Chinese sch	ool boy	B) a bacterium	
C) a monkey		D) a Chimpanzee	
10. Sex of a child is			
A) XX chromoso		B) XY chromosome	
C) YX chromoso		D)YXY chromosom	
11.All the plants der shorter pea plant are	-	oduced when crossing	the tall pea plant with the
A) tall plant is d	ominant	B) dwarf plant is do	minant
C) tall plant is r	ecessive	D) undetermined by	the T or t genes
	0	(RRyy) is mixed with a ed in the F1 generation	a pea plant with succulent are:
A) Round yello	ow B) Round green	C) Succulent green	D) Succulent yellow
13.Which of the foll	owing genetic design d	letermines the sex of m	ien?
A) XX	B) XY C)	YX D) YXY	
14. Which of the foll	owing chromosomes i	is crucial for a mother t	o have a baby boy?
A) Father's chro	mosome	B) Mother's chromo	some
C) Ancestral chi	omosome	D) None of these	

15. The remains of extinct organisms are called A) Fossils B) Time period C)Homologous organ D) Analogous organ 16. Which of the following are the characteristics of a person's development and experience over his lifetime? A) Dominant characteristic B) Inherited characters C) Acquired character D) Recessive character 17. Which one of the following vegetables is not developed from the wild cabbage plant B) Red cabbage A) Broccoli C) Potato D) Cauliflower 18. The transfer of characteristics from parents to children A) Differentiation B) Hybridisation C) Gene conversion D) Inheritance 19. Gametes : n :: zygote : _____ C) 3n A) n B) 2n D) 4n 20. Characteristics in an organism are Influenced by A) Father's DNA B) Mother's DNA C) Father's and mother's DNA D) None of these 21. The process by which DNA makes a copy of itself during cell division A) speciation B) Heredity D) dihybrid cross C) replication 22. The contribution of Laws on Inheritance was given by A) Aristotle B) Darwin C) Newton D) Gregor Mendel 23. According to the availability of evidence the modern man originated in A) Africa B) Asia C) Australia D) America 24. Vegetable obtained from wild cabbage C) broccoli B) beetroot D) tomato A) pea 25. The number of pairs of sex chromosomes in the zygote of human being is A) 2 B) 3 C) 1 D) 4 26. Element used to predict the age of a fossil(relative dating) A) sulphur C) carbon B) oxygen D) nitrogen 27. The wings of bat and pigeon are the examples of A) Analogous organs B) Vestigial organs C) Homologous organs D) Adaptive organs 28. The process by which new species of living organisms develop from pre-existing forms over several generations A) heredity B) evolution C) acquired characters D) generation

- 29. Analogous organs have
 - A) same structure same function
 - B) same structure different functions
 - C) different structures same function
 - D) different structures and different functions
- 30.An example of homologous organs
 - A) our arm and a dog's foreleg
 - B) our teeth and an elephant's tusks
 - C) potato and runners of grass
 - D) all of the above
- 31. The evolutionary process by which new species evolve from the existing species
 - A) natural selection B) artificial selection C) evolution D) speciation
- 32. which of the following is an example for inherited variation
 - A) difference in age between two persons
 - B) difference in food habits between two persons
 - C) one person has a scar but his friend does not
 - D) two children have different eye colours
- 33. Difference between genetic drift and natural selection
 - A) genetic drift does not require variation
 - B) unlike natural selection genetic drift happens
 - C) there is no struggle for existence against other members of species in genetic drift
 - D) there is no difference
- 34. Wild cabbage has evolved into new varieties like cabbage, broccoli & cauliflower by
 - A) genetic drift
 - B) natural selection
 - C) artificial selection
 - D) reproductive isolation
- 35. Which of the following is an example for continuous variation
 - A) colour of the hairs
 - B) colour of the eye
 - C) weight of the body
 - D) sex of the organsim

36.Organs which are having similar origin in their structures but perform different functions are known as

A) Analogous organs

B) Homologous organs

C) Vestigial organs

D) None of the above

37. Fossil found very deep under the earth's crust reveals

- A) They are the recent fossils
- B) Fossils were formed millions of years ago
- C) Age of the fossils cannot be predicted
- D) there is no relation between the fossil and the depth they are found under the earth's crust

38. Common factor used to find the race of the human

A) Height B) colour of the skin		C) Nose	D) Hair colour	
39.DNA produces	_ in the cell			
A) Lipid	B) vitamins	C) proteins	D) all the above	

40. In humans if gene B gives brown eye and gene b gives blue eye what will be the colour of the eye having combinations i)Bb and ii) BB

- A) i) blue and ii) brown B) i) brown and ii) blue
- C) i) brown and ii) brown

D) i) blue and ii) blue

Key Answers

Question	Ans	Question	Ans	Question	Ans	Question	Ans
1	В	11	А	21	С	31	D
2	А	12	А	22	D	32	D
3	В	13	В	23	А	33	С
4	С	14	А	24	С	34	С
5	С	15	А	25	С	35	С
6	D	16	С	26	С	36	В
7	D	17	С	27	А	37	В
8	В	18	D	28	В	38	В
9	А	19	В	29	С	39	С
10	В	20	C	30	D	40	С

14. SUSTAINABLE MANAGEMENT OF NATURAL RESOURCES

1)	Which of the followin	ng is the "Biodiv	versity hots	pots"						
	A) Mountains	B) Desert	S	C) Oceans	D) Forests					
2)	Which of the following is the main goal of conservation of resources.									
	A)Industrialisation	n		B) Economic	growth					
	C) The survival	of the human rac	e	D) Preserve the bio-diversity						
3)	The Aim of "Ganga Action Plan" is									
	A) To enhance the quality of water									
	B) To prevent thre	owing of the urba	an garbage	into rivers.						
	C) To prevent three	owing of half bu	rnt dead bo	dies into rivers	S.					
	D)All the above.									
	A group of bacteria for licates contamination			- -	0					
	A) Lactobacillus			B) Coliform						
	C)Rhizobium			D) Gonorrhoea	1					
5)	"Kattas" are the age	old concept of w	ater harve	sting in						
	A)Karnataka	B) Kerala	C)	Tamilunadu	D) Andhra Pradesh					
6)	The main motive of	rain water harve	sting is to							
	A) use it for irrig	ation	B) Cul	ture fishes						
	C) recharge grou	nd water	D) For	improvement	of industrialization.					
7)										
	A. Ground water level decreases									
	B. Ground water	get polluted								
	C. Nearest Plants	destroys due to e	excess of w	ater						
	D. Ground water	level increases								
8)	Which of the follow	ing are the stake	holders fo	r the conserva	tion of forests ?					
	A) The people live	e in or around th	e forests							
	B) The departmen	t of forests of the	e governm	ent and the In	dustrialists					
	C) The wild life a	and nature enthus	siasts.							
	D) All the above.									
9)	"Cracked crockery	or cups with brol	ken handle	s can be used t	o grow plants".					
	This is as example fo	r								
	A) Repurpose	B) Recycle	C) Reu	se D) F	Reduce					

10) Reuse strategy is better th	10) Reuse strategy is better the recycling because							
A) does not require energy	B) avoid environment pollution.							
C) Minimising expenditu	D) All of the above	D) All of the above						
11) The best method is to recy	ycle biodegradable	materials						
A) burying B) burnin	ıg C) draining	D) throwing bes	ide the road					
12) Which environmental prob	olem is associated	by rising the height of co	onstruction of					
dams ?								
A) It involves in spendir	5 5							
B) A large area of reside submerged in water.	nce, agricultural la	nd and industrial area w	ill be					
C) It leads to deforestation	on and loss of bio c	liversity.						
D) All the above .								
13) Rajasthan: Khadins, tanks	and nadis :: Mahara	ashtra:						
A)bandhras and tals	B)bundhis	C) ahars and pynes	D) kulhs					
14) Say No to single use plastic	c carry bags is exar	nple for						
A) Repurpose	B) Recycle	C) Refuse	D) Reduce					
15) Which of the following are	e to be managed fo	or sustainable developme	nt?					
A) Industries	B) Trees	C) Crops	D) Resources					
16) Mining leads to destruction of environment because of								
A) the fine top soil is spoiled								
B) dust causes air pollut	B) dust causes air pollution							
C) A large amount of sla	C) A large amount of slag discards from extraction of metals.							
D) All the above.								
17) Which of the following is	an example for peo	pples participation in the	management					
of forests ?								
A) Sal forest in West Be	engal							
B) The great Himalayan	National Park							
C) Khejri forest in Jodhp	our							
D) Gharwal forest in H	imalayas							
18) Water intensive crops are	ذ							
A) Millet and pepper	•	B) Potato and Onion						
C) Sugar cane and R	ice	D) Coconut and Cof	fee					
19) Amritha devi Bishnoi sacr	ificed her life to pr	otect the						
A) Palm trees		B) Khejri trees						
C) Teak wood trees		D) Sal trees						

20) " Amritha Devi Bishnai Nation	al award"is basically given for							
A) Best performance in sports								
B) A person who struggle for	r Welfare of farmers							
C) Wild life conservation								
D) None of the above								
21) Write the full form of (abbrevia	tion) "GAP" is							
A) Govt. Agency for animal H	Protection. B) Govt. Agency for Pollution .							
C) Gross Assimilation by Phot	tosynthesis.3 D) Ganga Action Plan.							
22) Which one is a wrong statemen	t in association with forests?							
A) Resin and drugs are obtained	ed. B) Causes soil erosion.							
C) Raw material of paper obta	ained, D)Controls flood.							
23) Traditional rain water harvesting	g in Himachal Pradesh							
A) aris B) kulhs	C) bundhis D) ponds							
24) Destroy of forest causes								
A) Loss of food and shelter of	wild animals. B) Loss of trees.							
C) Loss of population of wild	life. D) Loss of biodiversity.							
25) Which of the following is not a	natural resources?							
A) Soil B) Electricit	y C) Water D) Air							
26) Ground water will not be depl	eted due to							
A) Afforestation	B) Thermal Power Plants							
C) Deforestation	D) Cultivation of high water demand crops.							
27) Name the leader of the "CHIPKO Andolan" who is recently died								
A) Amritha devi Bishni	B) Sundarlal Bahuguna							
C) Medha Patkar	D) A K Banerjee							
28) 'Sardar Sarovar Dam' is situated	d on the river of							
A) Ganga B) Kaveri	C) Thunga D) Narmada							
29) The name of "Conservation of 1 "Reni in Gharwal" of Himalaya is	Forests Movement" started in a remote village named							
A) Bedthi Andolan	B) Chipko Andolan							
A) Deutin Anuolan								
C) Narmada Bachavo	D)Western ghats Save Andolan							
, ,	D)Western ghats Save Andolan							
C) Narmada Bachavo	D)Western ghats Save Andolan ng and cultivation of trees is							
C) Narmada Bachavo 30) The name for practice of growin	D)Western ghats Save Andolan ng and cultivation of trees is lture C) Apiculture D) Agriculture							

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32) Tendu leaves are used in						
A) fertilizers	B) making beedi's					
C) Ayurvedic medicines	D) Agarbathie's					
33) Loss of Bio diversity leads to						
A) Loss of social stability	B) Loss of ecological stability					
C) Loss of economical stability	D) Loss of geographical stability					
34) Which one is inexhaustible natural resource	e?					
A) Water	B) Forests					
C) Coal	D) minerals					
35) 3 R's that will help us to conserve natural resources for long term use are						
A) Reduce, Reuse, Recycle	B) Reduce, Regenerate, Reuse					
C) Reuse, Reduce, Redistribute	D) Recycle, Regenerate, Reuse					
36) The quality of environment can be improve	ed by					
A) Urbanization	B) Overuse of natural resources					
C) Deforestation	D) Conservation of resources					
37) The measure of the number of species fou	nd in an area is called					
A) Organism Number	B) Organism density					
C) Bio Diversity	D) All the above					

KEY-ANSWERS

1)D	4)B	7)B	10) D	13) A	16) D	18) C	21) D	24) D	27) B	30) B	33) B	36) D
2)D	5)A	8)D	11) A	14) C	17) A	19) B	22) B	25) B	28) D	31) A	34) A	37) C
3)D	6)C	9) A	12) D	15) D	18) C	20) C	23) B	26)A	29) B	32) B	35) A	

Last_updated 29/06/2021 3.00pm



VIGNANA