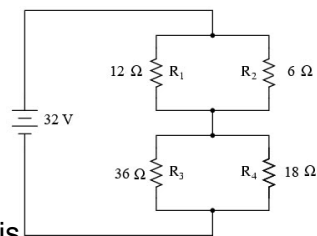


Tick (Ö) the best option in the given answer sheet

1. Size of atom is too small. Its radius is expressed in
 - a) *km*
 - b) *cm*
 - c) *light year*
 - d) $^{\circ}A$
2. Kilowatt hour is equivalent to
 - a) *joule*
 - b) *watt*
 - c) *newton*
 - d) *joule / s²*
3. Weight of a body will be zero if the body is
 - a) *at the center of earth*
 - b) *falling free*
 - c) *at satellite*
 - d) *all*
4. Velocity of bus increases from 36 km/hr to 72 km/hr in 5 second. Its acceleration is
 - a) *7.2 m/s*
 - b) *21.6 m/s*
 - c) *6 m/s*
 - d) *2 m/s*
5. A body is partially immersed in liquid. Then the correct condition is
 - a) *weight of the body = upthrust*
 - b) *weight of the body < upthrust*
 - c) *weight of the body > upthrust*
 - d) *all possible*
6. Density of water is maximum at temperature
 - a) *4 ^oF*
 - b) *4 K*
 - c) *277 K*
 - d) *- 4 ^oC*
7. Heat comes from sun to earth by
 - a) *conduction*
 - b) *convection*
 - c) *radiation*
 - d) *all*
8. When object is placed between its F and 2F of convex lens, the nature of image is
 - a) *real, magnified*
 - b) *virtual magnified*
 - c) *real diminished*
 - d) *virtual diminished*
9. During dispersion of light, the colour which has the maximum deviation is
 - a) *red*
 - b) *blue*
 - c) *green*
 - d) *violet*
10. When light travels from one transparent medium to another one which physical quantity remains unchanged?
 - a) *velocity*
 - b) *frequency*
 - c) *wavelength*
 - d) *all*
11. Men cannot speak at moon as earth. It is due to absence of
 - a) *air*
 - b) *gravity*
 - c) *heat*
 - d) *light*
12. During lightning, flash of light is seen earlier than the thunder. It is due to the
 - a) *velocity of sound > velocity of light*
 - b) *velocity of sound < velocity of light*
 - c) *velocity of sound = velocity of light*
 - d) *temperature, not velocity.*
13. Find the current flowing in the circuit
 - a) *4/9 A*
 - b) *3 A*
 - c) *2 A*
 - d) *1/2 A*
14. Biratnagar lies at northern hemisphere where angle of dip is
 - a) *41 ^o*
 - b) *90^o*
 - c) *0 ^o*
 - d) *180 ^o*
15. Shape of our galaxy milky way is ?
 - a) *circular*
 - b) *spiral*
 - c) *straight*
 - d) *triangular*
16. Which is not the renewable energy?
 - a) *solar energy*
 - b) *hydro energy*
 - c) *wind energy*
 - d) *petroleum*



17. Water is
- a) *Electrovalent compound* b) *Covalent compound*
 c) *Ionic compound* d) *Coordinate compound*
18. Which of the following is least reactive?
- a) *Fluorine* b) *Chlorine*
 b) *Iodine* d) *Bromine*
19. In d-orbital of an atom, the maximum number of electrons that can be adjusted is
- a) *14* b) *10*
 c) *6* d) *2*
20. The rate of reaction is increased by the presence of another substance called
- a) *catalyst* b) *positive catalyst*
 b) *negative catalyst* d) *promoter*
21. Heat is absorbed in an
- a) *Exothermic reaction*
 b) *Endothermic reaction*
 c) *Reversible reaction*
 d) *Irreversible reaction*
22. Which of the following cannot be known by using solubility curve?
- a) *Solubility of a substance at a particular temperature*
 b) *Comparison of solubility of two solute at same temperature*
 c) *State of solute and solvent*
 d) *Relation of temperature and solubility of a substance*
23. Bond present between nitrogen atoms in a molecule of nitrogen is
- a) *Single* b) *double*
 c) *triple* d) *Ionic*
24. Generally metal oxides are
- a) *basic* b) *acidic*
 c) *neutral* d) *none*
25. Blue vitriol is
- a) *FeSO₄.7H₂O* b) *Na₂SO₄.7H₂O*
 c) *MgSO₄.10H₂O* d) *CuSO₄.5H₂O*
26. The color of phenolphthalein in an alkaline solution is
- a) *colorless* b) *red*
 c) *pink* d) *yellow*
27. What is the molecular formula of urea?
- a) *NH₂CONH₂*
 b) *CH₃OCH₃*
 c) *NH₂CONH₄*
 d) *NH₄COHN₄*
28. Which of the following element is not a p-block element?
- a) *carbon* b) *argon*
 c) *chlorine* d) *iron*
29. Isomers always have the same:
- a) *melting point* b) *molecular formula*
 c) *boiling point* d) *reactivity*
30. Which is thermoplastic?
- a) *PVC* b) *teflon*
 c) *Bakelite* d) *melamine*
31. Which of the following makes water permanently hard?
- a) *ZnCl₂* b) *PbSO₄*
 c) *CaSO₄* d) *K₂SO₄*
32. Which of the following is called a nitrogen fertilizer?
- a) *Potassium carbonate* b) *Potassium chloride*
 c) *Calcium super phosphate* d) *Ammonium phosphate*

33. Hydra is
 a) diploblastic, acoelomate
 b) diploblastic, coelomate
 c) triploblastic, acoelomate
 d) triploblastic, coelomate
34. *Sepia* is commonly called
 a) star fish
 b) cuttle fish
 c) devil fish
 d) silver fish
35. Which valve is present between right auricle and right ventricle?
 a) tricuspid
 b) bicuspid
 c) semilunar
 d) eustachius
36. Alveoli are the functional units of
 a) kidney
 b) testis
 c) ovary
 d) lung
37. Humerus is the bone of
 a) hand
 b) leg
 c) skull
 d) backbone
38. Maggot is the larva of
 a) mosquito
 b) honey bee
 c) housefly
 d) locust
39. Struggle for existence is the postulate of
 a) Lamarck's theory
 b) de Vries theory
 c) Mendel's theory
 d) Darwin's theory
40. Sudden chromosomal change is also called
 a) variation
 b) heredity
 c) mutant
 d) mutation
41. Which part of gynoecium forms fruit?
 a) ovary
 b) ovule
 c) anther
 d) pistil
42. The two chromatids of a chromosome are held together at the
 a) telomere
 b) centromere
 c) primary constriction
 d) secondary constriction
43. How many autosome chromosomes are found in human cells?
 a) 26 pairs
 b) 24 pairs
 c) 23 pairs
 d) 22 pairs
44. Which one of the following reproduces by leaf?
 a) cactus
 b) aloe vera
 c) bryophyllum
 d) mango
45. Edible part of potato is
 a) root
 b) stem
 c) fruit
 d) seed
46. Who is known as father of taxonomy?
 a) R.H. Whittaker
 b) Carl Woese
 c) E. Haeckel
 d) C. Linnaeus
47. Fruit is absent in
 a) mango
 b) rose
 c) pine
 d) sunflower
48. Which plant is free floating hydrophyte?
 a) hydrilla
 b) lotus
 c) water hyacinth
 d) paddy
49. Power set of empty set has exactly _____ sub sets.
 a) One
 b) Two
 c) Zero
 d) None
50. If $f: R \rightarrow R$ defined by $f(x) = x^2 + 1$, then $f^{-1}(17) =$
 a) 16
 b) -4
 c) 0
 d) 4
51. If the Circumference of two circles are in the ratio 2:3, then the ratio of their areas

Write the answer in Very Short

1. What is SI unit of force ?
2. What is boiling temperature of water in $^{\circ}\text{C}$?
3. The phenomenon of bending of light while going from one medium to another is called?
4. Write the formula of Ohm's Law.

5. Write the number of proton in Hydrogen atom.
6. Write molecular formula of Sulphuric acid.
7. Complete the chemical equation $\text{HCl} + \text{NaOH} = \dots\dots\dots + \dots\dots\dots$
8. What is the pH value of pure water?

9. What is the living component of cell?
10. In which group mushroom is found ?
11. What is respiratory organ of prawn ?
12. Which organ filters the blood in human body?

13. What is the value of $\sin 60^{\circ}$?
14. Write the value of $\sin^2 q + \cos^2 q$ is
15. What is the sum of three angles of a triangle ?
16. What is the angle between two straight lines $2x - 3y = 0$ and $3x + 2y = 0$?
17. 10 men can do a work in 20 days. How many men does require to complete in 2 days ?.....

18. Make passive voice "He frightened me"
19. Write tag question "He never gave me money".....
20. Negative of the word 'can' is
21. What is the past tense of 'cling' ?

Subject-wise Grid

SN	Subject	MCQ	Short Question	Total Marks
1.	Physics	16	4	20
2.	Chemistry	16	4	20
3.	Biology	16	4	20
4.	Maths	26	4	30
5.	English	06	4	10
Total		80	20	100

Name of Student : Roll NO:

ANSWER SHEET` (Front Page)

Tick (Ö) the best option

Q.N	a	b	c	d		Q.N	a	b	c	d
1.	a	b	c	d		41.	a	b	c	d
2.	a	b	c	d		42.	a	b	c	d
3.	a	b	c	d		43.	a	b	c	d
4.	a	b	c	d		44.	a	b	c	d
5.	a	b	c	d		45.	a	b	c	d
6.	a	b	c	d		46.	a	b	c	d
7.	a	b	c	d		47.	a	b	c	d
8.	a	b	c	d		48.	a	b	c	d
9.	a	b	c	d		49.	a	b	c	d
10.	a	b	c	d		50.	a	b	c	d
11.	a	b	c	d		51.	a	b	c	d
12.	a	b	c	d		52.	a	b	c	d
13.	a	b	c	d		53.	a	b	c	d
14.	a	b	c	d		54.	a	b	c	d
15.	a	b	c	d		55.	a	b	c	d
16.	a	b	c	d		56.	a	b	c	d
17.	a	b	c	d		57.	a	b	c	d
18.	a	b	c	d		58.	a	b	c	d
19.	a	b	c	d		59.	a	b	c	d
20.	a	b	c	d		60.	a	b	c	d
21.	a	b	c	d		61.	a	b	c	d
22.	a	b	c	d		62.	a	b	c	d
23.	a	b	c	d		63.	a	b	c	d
24.	a	b	c	d		64.	a	b	c	d
25.	a	b	c	d		65.	a	b	c	d
26.	a	b	c	d		66.	a	b	c	d
27.	a	b	c	d		67.	a	b	c	d
28.	a	b	c	d		68.	a	b	c	d
29.	a	b	c	d		69.	a	b	c	d
30.	a	b	c	d		70.	a	b	c	d
31.	a	b	c	d		71.	a	b	c	d
32.	a	b	c	d		72.	a	b	c	d
33.	a	b	c	d		73.	a	b	c	d
34.	a	b	c	d		74.	a	b	c	d
35.	a	b	c	d		75.	a	b	c	d
36.	a	b	c	d		76.	a	b	c	d
37.	a	b	c	d		77.	a	b	c	d
38.	a	b	c	d		78.	a	b	c	d
39.	a	b	c	d		79.	a	b	c	d
40.	a	b	c	d		80.	a	b	c	d

MCQ Score :

Checked by :

Verified by :

ANSWER SHEET` (Back Page)

Write the answer of the given short questions.

QN	ANSWER
1.	
2.	
3.	
4.	
5.	
6.	
7.	
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9.	
10.	
11.	
12.	
13.	
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16.	
17.	
18.	
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20.	

Short Qn Score :

Checked by :

Verified by :

TOTAL SCORE: