

Std =

SCIENCE

MARK=50

I. Choose the correct answer:

5x5=5

1) One kilogram force equal to

- a) 9.8 dyne b) 9.8×10^4 N c) 98×10^4 dyne
d) 980 dyne

2) Power of a lens is $-4D$, then its focal length is

- a) 4m b) -40m c) -0.25m d) -2.5m

3) The volume occupied by 1 mole of a diatomic gas at S.T.P is

- a) 11.2 litre b) 5.6 litre c) 22.4 litre d) 44.8 litre

4) Casparian strips are present in the — of the root.

- a) cortex b) pith c) pericycle d) endodermis

5) O Nutrients —

- a) Hydrogen b) Nutrients c) Carbon d) All of the three

II Fill in the blanks:

5x5=5

6) Linear momentum SI Unit is —.

7) Lens SI Unit is —.

8) The average atomic mass of hydrogen is —

9) A man of mass 100 kg has a weight of _____ at the surface of the Earth.

10) _____ is ATP factory of the cells.

iii. Match the following:

5x1=5

11) Law of Conservation of Linear momentum = Path way of light

12) Pupil = Diacaena

13) Retina = 13 moles

14) 52 g of He = Propulsion of a Rocket

15) Amphivasal = Screen of the eye

iv. True Or False. (If false give the correct statement). 5x1=5

16) Apparent weight of a person is always equal to his actual weight.

17) Velocity of light is greater in denser medium than in rarer medium.

18) Two elements sometimes can form more than one compound.

19) Anaerobic respiration produces more ATP than aerobic respiration.

20) Mesophyll contains chlorophyll.

√ Short Answer questions: (Any 10)

10 × 2 = 20 m

21) Define Inertia. Give its classification?

22) State Snell's law?

23) Define dispersion of light?

24) Power of a lens is $-2D$, then its focal length is?

25) If a $5N$ and a $15N$ forces are acting opposite to one another. Find the resultant force and the direction of action of the resultant force?

26) To Find Ratio

i) Glucose Ratio ii) Sucrose Ratio

27) What is Respiratory quotient?

28) What is Tissues?

29) Define: Relative atomic mass?

30) What is power of accommodation of eye?

31) Differentiate Convex lens and Concave lens?

32) Differentiate mass and weight?

33) Name the three basic tissues system in flowering plants?

√ Long Answer questions: (Any 2)

2 × 5 = 10 m

34) Describe and name three stages of cellular respiration that aerobic organisms use to obtain energy from glucose?

- 35) Give the salient features of "Modern atomic theory"?
- 36) List any five properties of light?
- 37) Describe Rocket propulsion?

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