



Date :-04/02/2022

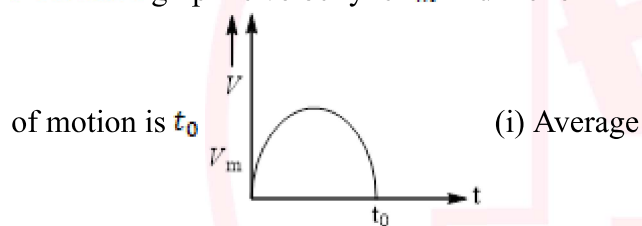
Time :-30 Minutes

Exam Name :-NEET-1to1guru-4

Mark :- 80

PHYSICS

- A thermoelectric refrigerator works on
(a) Joule effect (b) Seeback effect
(c) Peltier effect (d) Thermonic emission
- In a material medium, when a positron meets an electron both the particles annihilate leading to the emission of two gamma ray photons. This process forms the basis of an important diagnostic procedure called
(a) MRI (b) PET (c) CAT (d) SPECT
- The velocity of a particle moving in a straight line varies with time in such a manner that v versus t graph is velocity is v_m and the total time



of motion is t_0 velocity of the particle is $\frac{\pi}{4} v_m$ (ii) such motion cannot be realized in practical terms

- Only (i) is correct
 - Only (ii) is correct
 - Both (i) and (ii) are correct
 - Both (i) and (ii) are wrong
- If a black body is heated at a high temperature, it seems to be
(a) Blue (b) White (c) Red (d) Black
 - The number of waves contained in unit length of the medium is called
(a) Elastic wave (b) Wave number (c) Wave pulse (d) Electromagnetic wave

CHEMISTRY

- The density of a gas A is twice that of a gas B at the same temperature. The molecular weight of gas B is thrice that of A. The ratio of the pressures acting on A and B will be
(a) $\frac{1}{6}$ (b) $\frac{7}{8}$ (c) $\frac{2}{5}$ (d) $\frac{1}{4}$
- CH_3COOH is titrated with NaOH solution. Which of the following statements is true?
(a) Conductance decreases upto equivalence point,

after which it increases

- Conductance increases upto equivalence point, after which it decreases
- Conductance first increases (but not rapidly) upto equivalence point and then increases rapidly after equivalent point
- None of the above

8. From separate solutions of four sodium salts NaW , NaX , NaY and NaZ had pH 7.0, 9.0, 10.0 and 11.0 respectively. When each solution was 0.1 M, the strongest acid is:

- HW (b) HX (c) HY (d) HZ

9. Vitamin A is present in:

- Liver (b) Milk (c) Green vegetables (d) All of these

10. If, combustion of 4 g of CH_4 liberates 2.5 kcal of heat, the heat of combustion of CH_4 is :

- -2 kcal mol^{-1} (b) $-10 \text{ kcal mol}^{-1}$ (c) $2.5 \text{ kcal mol}^{-1}$ (d) -5 kcal mol^{-1}

BIOLOGY

11. Which one of the following is not a method of in situ conservation of biodiversity ? (NEET 2019)

- Sacred grove (b) Biosphere reserve (c) Wildlife sanctuary (d) Botanical garden

12. Pick out the correct statements. I. Haemophilia is a sex-linked recessive disease II. Down's syndrome is due to aneuploidy III. Phenylketonuria is an autosomal dominant gene disorder IV. Phenylketonuria is an autosomal recessive gene disorder V. Sickle cell anaemia is an X-linked recessive gene disorder

- I, III and V are correct (b) I and III are correct (c) II and V are correct (d) I, II and IV are correct

13. The Digestive enzyme that is not found in human pancreatic juice is

- Nucleotidase (b) Nuclease (c) Trypsin (d) Lipase

14. Starch is converted to maltose by the action of

- Invertase (b) Amylase (c) Sucrose (d) Maltase

15. The vestibular apparatus of human ear is composed of

- (a) Oval window (b) Otolith organs
(c) Three semicircular canals
(d) Both (b) and (c)

16. Spore dissemination in some liverworts is aided by (2007)

- (a) indusium (b) calyptra (c) peristome teeth
(d) elaters

17. The values of osmotic potential (π) and pressure potential (ρ) of cells A, B, C and D are

Cell	π	ρ
A	-1.0	0.5
B	-0.6	0.3
C	-1.2	0.6
D	-0.8	0.4

given below.

Identify the correct sequence that shows the path of movement of water from among the following.

- (a) $D \rightarrow C \rightarrow A \rightarrow B$ (b) $B \rightarrow D \rightarrow A \rightarrow C$
(c) $B \rightarrow C \rightarrow D \rightarrow A$ (d) $C \rightarrow B \rightarrow A \rightarrow D$

18. Fungi in a forest ecosystem is

- (a) Producer (b) Decomposer (c) Top consumer
(d) Autotroph

19. Emulsification of fat will not occur in absence of

- (a) Lipase (b) Bile pigments (c) Bile salts
(d) Pancreatic juice

20. Term meiosis was proposed by

- (a) Farmer and Moore (b) Flemming
(c) Strasburger (d) Darlington

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