

VINAYAK COLLEGE OF HEALTH SCIENCE

Batishputali, Kathmandu

Subject: Physics

Full marks: 20

Time: 20 Minute

PRE-BOARD EXAMINATION 2082

NAME: ROLL NO:

FACULTY: General Medicine Pharmacy Lab Physiotherapy

Tick (✓) the Best Answer. Group 'A'

(1×20=20)

Multiple Choice Questions:

1. The dimension of force is.....

- A. $[MLT^{-2}]$ B. $[ML^0T^{-2}]$ C. $[ML^2T^{-3}]$ D. $[ML^2T^{-2}]$

2. Newton's First law of motion describes the

- A. Energy B. Work C. Power D. Inertia.

3. The weight of a body at the center of the Earth is..

- A. Zero B. Infinite C. Same as on the surface of Earth D. None of above

4. What is value of latent heat of fusion of ice....

- A. 60 Cal/gm B. 80 Cal/gm C. 100 Cal/gm D. 120 Cal/gm

5. $40^{\circ}C$ is equal to..

- A. $102^{\circ}F$ B. $103^{\circ}F$ C. $104^{\circ}F$ D. $106^{\circ}F$

6. When lens is immersed in water then Focal Length of the lens is...

- A. Zero B. Increased C. Decreased D. Constant

7. Which of the wave is transverse wave...

- A. sound in air B. waves in wire C. waves in spring D. all of above

8. The Number of electrons in one coulomb of charge is....

- A. 5.46×10^{29} B. 6.25×10^{18} C. 1.6×10^{19} D. 9×10^{11}

9. The basic unit of charge of electron is ..

- A. $1.6 \times 10^{19}c$ B. $1.4 \times 10^{19}c$ C. $1.6 \times 10^{-19}c$ D. $1.4 \times 10^{-19}c$

10. At neutral point, the resultant magnetic field is...

- A. 0T B. $3.5 \times 10^{-4}T$ C. $7.5 \times 10^{-5}T$ D. $3.4 \times 10^{-5}T$

11. Angle of dip is maximum at ...

- A. Pole B. Equator C. Neutral Point D. Center of Earth

12. The resistivity of a wire depends on its....

- A. Length B. Area of cross-section C. Shape D. Material

13. The terminal potential difference of a cell in open circuit is ...

- A. E B. E/2 C. 0 D. infinite

14. The Frequency of ac current in Nepal is...

- A. 40HZ B. 50HZ C. 60 HZ D. 70HZ

15. The Specific charge of Electron is..

- A. $1.5 \times 10^{11}c/kg$ B. $1.76 \times 10^{-11}c/kg$ C. $1.76 \times 10^{11}c/kg$ D. $1.76 \times 10^{12}c/kg$

16. The X-rays is...

- A. Electron B. Proton C. Photon D. Neutron

17. The Mass of Electron is ...

- A. $9.1 \times 10^{31}kg$ B. $9.1 \times 10^{-31}kg$ C. $9 \times 10^{26}kg$ D. $9 \times 10^{-32}kg$

18. Work done maximum if angle between force and displacement is ..

- A. 0° B. 90° C. 45° D. 180°

19. Which lens is used to correct the defect Myopia...

- A. Concave lens B. Convex lens C. Plano- Convex lens D. Bi- Convex lens

20. The Velocity of sound in air is..

- A. 280m/s B. 300m/s C. 332m/s D. 350m/s
