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11. When light is refracted from a surface, which of its following physical parameters does not change ?
 (A) velocity (B) amplitude (C) frequency (D) wavelength
Solution : (C)
12. A solid maintained at $t_1^\circ\text{C}$ is kept in an evacuated chamber at temperature $t_2^\circ\text{C}$ ($t_2 \gg t_1$). The rate of heat absorbed by the body is proportional to
 (A) $t_2^4 - t_1^4$ (B) $(t_2^4 + 273) - (t_1^4 - 273)$
 (C) $t_2 - t_1$ (D) $t_2^2 - t_1^2$
Solution : (C)
13. The work function of metals is in the range of 2 eV to 5 eV. Find which of the following wavelength of light cannot be used for photoelectric effect. (Consider, Planck constant = 4×10^{-15} eVs, velocity of light = 3×10^8 m/s)
 (A) 510 nm (B) 650 nm (C) 400 nm (D) 570 nm
Solution : (B)
14. A thin plastic sheet of refractive index 1.6 is used to cover one of the slits of a double slit arrangement. The central point on the screen is now occupied by what would have been the 7th bright fringe before the plastic was used. If the wavelength of light is 600 nm, what is the thickness (in μm) of the plastic?
 (A) 7 (B) 4 (C) 8 (D) 6
Solution : (A)
15. The length of an open organ pipe is twice the length of another closed organ pipe. The fundamental frequency of the open pipe is 100 Hz. The frequency of the third harmonic of the closed pipe is
 (A) 100 Hz (B) 200 Hz (C) 300 Hz (D) 150 Hz
Solution : (C)
16. A $5 \mu\text{F}$ capacitor is connected in series with a $10 \mu\text{F}$ capacitor. When a 300 Volt potential difference is applied across this combination, the total energy stored in the capacitors is
 (A) 15 J (B) 1.5 J (C) 0.15 J (D) 0.10 J
Solution : (C)
17. Two particles of mass m_1 and m_2 , approach each other due to their mutual gravitational attraction only. Then
 (A) accelerations of both the particles are equal.
 (B) acceleration of the particle of mass m_1 is proportional to m_1 .
 (C) acceleration of the particle of mass m_1 is proportional to m_2 .
 (D) acceleration of the particle of mass m_1 is inversely proportional to m_1 .
Solution : (C)
18. Three bodies of the same material and having masses m , m and $3m$ are at temperature 40°C , 50°C and 60°C respectively. If the bodies are brought in thermal contact, the final temperature will be
 (A) 45°C (B) 54°C (C) 52°C (D) 48°C
Solution : (B)
19. A satellite has kinetic energy K , potential energy V and total energy E . Which of the following statements is true?
 (A) $K = -V/2$ (B) $K = V/2$ (C) $E = K/2$ (D) $E = -K/2$
Solution : (A)



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