11. Stopping potential for a metal surface in case of photoelectric emission depends on

    A. the threshold frequency for the metal surface   **B.** the intensity of incident light

    C. the frequency of incident light and work function of the metal surface   **D.** all of the above

    Answer: Option **C**

---

12. Select an alternative from of uncertainly principle from the following

    A. ?? = h/m?c(1-cos ?)   **B.** ?E . ?t = h

    C. mc2 = hv   **D.** any of above

    Answer: Option **B**

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13. The existence of Ether wind was experimentally rejected by

    A. equal to its rest mass   **B.** double of its rest mass

    C. infinite   **D.** zero

    Answer: Option **C**

---

14. If a material object moves with speed of light its mass becomes

    A. equal to its rest mass   **B.** double of its rest mass

    C. infinite   **D.** zero

    Answer: Option **C**

---

15. As the temperature of black body is raised the wavelength corresponding to maximum intensity

    A. shifts towards longer wavelength   **B.** shifts towards shorter wavelength

    C. remain the same   **D.** shifts towards longer as well as shorter wavelengths

    Answer: Option **B**

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16. Rest mass of a photon is

    A. infinite   **B.** zero

    C. very small   **D.** 1.67 x 10-27 kg

Answer: Option **B**

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17. The name of the photon for quantum of light was proposed by

    A. Ampere   **B.** Plank

    C. Thomson   **D.** Einstein

    Answer: Option **D**

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18. Einsteins photoelectric equation is given by

    A. 1/2 mvmax2=hf+?   **B.** 1/2 mvmax2-hf = ?

    C. 1/2 mvmax2=hf-?   **D.** all of above are correct

    Answer: Option **C**

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19. In Compton scattering the change in wave length is max if

    A. angle of scattering is 90?   **B.** angle of scattering is 60?

    C. angle of scattering is 180?   **D.** angle of scattering is zero

    Answer: Option **C**

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20. Davison Germer experiment indicates

    A. interference   **B.** polarization

    C. election diffraction   **D.** refraction

    Answer: Option **C**