Multiple Choice Questions' Bank:

1. Visible light's wavelength range _____.

(a) 0.39 – 0.77 mm (b) 0.39 – 0.77 μm
(c) 0.39 – 0.77 nm (d) 0.39 – 0.77 cm

2. Planck's constant

(a) $6.62x10^{-34}$ J.sec (b) $6.62x10^{-34}$ J.min (c) $6.62x10^{-34}$ Cal.sec (d) $6.62x10^{-34}$ Cal.min

3. Sum of these is unity

(a) Reflectivity (b) Reflectivity + Refractivity
(c) Reflectivity + Refractivity + Transmitivity (d) Any

4. Metals can _____ the light beams.

(a) Reflect (b) Refract (c) Transmit (d) Any

5. Metals are _____.

(a) Transparent (b) Opaque (c) Translucent (d) None

6. Metals can transmit these ____.

(a) Radio ways (b) Visible light (c) Microwaves (d) x-rays

7. Reflectivity of metals

(a) 0.05 (b) 0.50 (c) 0.95 (d) None

8. Refractive index of materials is approximately equal to square root of

(a) electrical permittivity (b) magnetic permeability
(c) electrical permittivity x magnetic permeability (d) None

9. Snell's law relates _____.

(a) Light relfection (b) Light refraction (c) Light transmission (d) Light Absorption

10. Bouguer's law relates _____.

(a) Light relfection (b) Light refraction (c) Light transmission (d) Light Absorption

11. Sky looks blue because the sun light is subjected to _____.

(a) Rayleigh scattering (b) Compton scattering (c) Both (d) None

12. Luminescence is because of

(a) Photons emitted while excited electrons drops down
(b) Knocking out of electrons by photons
(c) Photons stimulated by photons
(d) All

13. Fluorescence occurs within _____.

(a) 10^{-5}s. (b) 10^{-5}ms. (c) 10^{-5}µs. (d) 10^{-5}ns.

14. Electro-luminescence occurs in _____.

(a) Electrical conductors (b) Electrical insulators (c) p-n junctions (d) all

15. Pyrometer works based on

(a) Laser technology (b) Photo-conduction (c) Thermal emission (c) Tyndall effect

16. Solar cell works based on

(a) Laser technology (b) Photo-conduction (c) Thermal emission (c) Tyndall effect

17. Optical fiber operates on the principle of

(a) Total internal reflectance (b) Tyndall effect (c) Photo-electric effect (d) Laser technology

Answers:

1. b
2. a
3. c
4. a
5. b
6. d
7. c
8. a
9. b
10. d
11. a

12. a
13. b
14. c
15. c
16. b
17. a