

31. The value of critical angle for glass is

A. 42°

B. 47°

C. 52°

D. 50°

Answer: Option A

32. In optic fiber transmission system _____ are used regenerate the dim light signal.

A. Diodes

B. Repeaters

C. Laser

D. Transformer

Answer: Option B

33. Magnification of the astronomical telescope is

A. $f_o + f_e$

B. f_o / f_e

C. f_e / f_o

D. $(1 + f_o / f_e)L / f_o$

Answer: Option B

34. The equation $\theta_{\min} = 1.22 \lambda / D$ was devised by

A. Newton

B. Einstein

C. Raleigh

D. Planks

Answer: Option C

35. A convex lens acts as a diverging lens if the

A. object is beyond C

B. if the object is within C

C. if the object is within f

D. both (b) and (c)

Answer: Option D

36. Michelson calculated the speed of light using the instruments

- A. spectrometer
C. interferometer
- B. galvanometer
D. none of these

Answer: Option A

37. Michelson devised the formula to calculate the speed of light

- A. $C = 4fd$
C. $C = 16fd$
- B. $C = 8fd$
D. $C = 5/2fd$

Answer: Option c

38. The function of collimeter in spectrometer is

- A. to produce parallel beams of light
C. to make them
- B. to filter the light rays
D. no function

Answer: Option A

39. In optic fiber transmission the repeater are separated through a distance of _____ km in newer system.

- A. 300km
C. 100km
- B. 200km
D. 20km

Answer: Option c

40. Errors in the transmission of power through optic fiber can be minimized by using a

- A. Multimode index fiber
C. Single mode step index fiber
- B. Graded index fiber
D. Copper wire

Answer: Option B