

Online Assessment (Even Sem/Part-I/Part-II Examinations 2019 - 2020)

Course Name - Geometrical Optics

Course Code - BOPTO 205

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Answer all the questions. Each question carry one mark.

9. 1. Where an object should be placed in front of a convex lens to get a real image of the size of the object?

Mark only one oval.

- at the principal focus of the lens
- at twice the focal length
- at infinity
- between the optical centre of the lens and its principal focus

10. 2. Image formed by plane mirror is

Mark only one oval.

- real and erect
- real and inverted
- virtual and erect
- virtual and inverted

11. 3. The image formed by a concave lens is

Mark only one oval.

- always real and enlarged
- always real and diminished
- always virtual and enlarged
- always virtual and diminished

12. 4. Which glasses or lens are used to correct the short sighted eye defect?

Mark only one oval.

- concave Lens
- convex Lens
- bipolar Lens
- None of these

13. 5. Unable to understand others lead to

Mark only one oval.

- Information
- Money
- Unhappiness
- None of these

14. 6. Absolute refractive index of any medium is always

Mark only one oval.

1

>1

<1

0

15. 7. 'Short-sight' in human eye can be corrected by using proper

Mark only one oval.

convex lens

concave lens

cylindrical lens

bifocal lens

16. 8. If absolute refractive index of water and glass are $\frac{4}{3}$ and $\frac{3}{2}$ respectively, the refractive index of glass with respect to water is

Mark only one oval.

$\frac{2}{3}$

$\frac{8}{9}$

$\frac{9}{8}$

$\frac{3}{4}$

17. 9. An optician prescribes a power = - 0.5 diopter. The corresponding lens must be

Mark only one oval.

- convex lens of focal length 2 m
- convex lens of focal length 50 cm
- concave lens of focal length 2 m
- concave lens of focal length 50 cm

18. 10. What would be the number of images formed of an object in two mirrors placed at right angles to each other?

Mark only one oval.

- 2
- 3
- 4
- 6

19. 11. Which colour of light shows maximum deviation when passed through a prism?

Mark only one oval.

- red
- green
- violet
- yellow

20. 12. Optical fibers are based on the phenomenon of

Mark only one oval.

- interference
- dispersion
- diffraction
- total internal reflection

21. 13. The sharpness of television image is termed as its

Mark only one oval.

- clarity
- colour
- resolution
- graphics

22. 14. Equation to calculate the refractive index is

Mark only one oval.

- $n=c/v$
- $n=cv$
- $n=v/c$
- $n=1/cv$

23. 15. Where is the image in eye formed for a person suffering from the defect of nearsightedness?

Mark only one oval.

- on retina
- behind retina
- ahead of retina
- on pupil

24. 16. On a rainy day, small oily films on water show brilliant colours. This is due to

Mark only one oval.

- scattering
- interference
- polarization
- dispersion

25. 17. The diameter of a lens is called

Mark only one oval.

- focal length
- principal axis
- aperture
- radius of curvature

26. 18. A spectrometer is used to find

Mark only one oval.

- wave length of light
- refractive index of the prism
- wavelength of different colours
- all of these

27. 19. What kind of image is created by a concave lens?

Mark only one oval.

- virtual and upright
- real and upright
- real and inverted
- real and smaller

28. 20. The average energy of harmonic oscillator in 3 dimension is

Mark only one oval.

- kT
- $3kT$
- $3kT/2$
- None

29. 21. In optics an object which has higher refractive index is called

Mark only one oval.

- optically denser
- optically rarer
- optical density
- refractive index

30. 22. The image of the object that we see, forms on the retina of our eyes is

Mark only one oval.

- always erect
- erect or inverted depends upon the intensity of light
- always inverted
- erect or inverted depends upon the age of the person

31. 23. Which glasses or lens are used to correct the short sighted eye defect?

Mark only one oval.

- concave Lens
- convex Lens
- bipolar Lens
- None of these

32. 24. The head mirror used by E.N.T doctors is

Mark only one oval.

- concave
- convex
- plane
- plano-convex

33. 25. Propagation of light quanta may be described by

Mark only one oval.

- photons
- protons
- neutrons
- electrons

34. 26. Lens is made up of

Mark only one oval.

- pyrex glass
- flint glass
- ordinary glass
- cobalt glass

35. 27. What particles make up light?

Mark only one oval.

- proton
- photon
- electron
- neutron

36. 28. To produce a real, inverted and diminished image on film, a camera uses

Mark only one oval.

- converging lens
- diverging lens
- counter lens
- fiber lens

37. 29. A object is placed at a distance of $f/2$ from a convex lens of focal length f . The image will be

Mark only one oval.

- at one of the foci, virtual and double its size
- is greater than 1.5 but less than 2.0
- at $2f$, virtual and erect
- None of these

38. 30. In going from a denser to a rarer medium a ray of light is

Mark only one oval.

- undeviated
- bent towards the normal
- polarized
- bent away from the normal

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