## Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021

Course Name - - Geometrical Optics Course Code - BOPTO205

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8.

Mark only one oval.
Diploma in Pharmacy
Bachelor of Pharmacy
B.TECH.(CSE)
B.TECH.(ECE)
BCA
B.SC.(CS)
B.SC.(BT)
B.SC.(ANCS)
B.SC.(HN)
B.Sc.(MM)
B.A.(MW)
BBA
B.COM
B.A.(JMC)
BBA(HM)
BBA(LLB)
B.OPTOMETRY
B.SC.(MB)
B.SC.(MLT)
B.SC.(MRIT)
B.SC.(PA)
LLB
B.SC(IT)-AI
B.SC.(MSJ)
Bachelor of Physiotherapy
B.SC.(AM)
Dip.CSE
Dip.ECE
<u>DIP.EE</u>
DIPCE

9.

DIP.ME	
PGDHM	
MBA	
M.SC.(BT)	
M.TECH(CSE)	
LLM	
M.A.(JMC)	
M.A.(ENG)	
M.SC.(MATH)	
M.SC.(MB)	
MCA	
M.SC.(MSJ)	
M.SC.(AM)	
M.SC.CS)	
M.SC.(ANCS)	
M.SC.(MM)	
B.A.(Eng)	
Answer all the questions	. Each question carry one mark.
. 1. Focal length of plane	e mirror is *
Mark only one oval.	
at infinity	
zero	
negative	
one of these	

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. A concave mirror gives real, inverted and same size image if the object is placed *
	Mark only one oval.
	at F
	at infinity
	at C
	beyond C
12.	4. In optics an object which has higher refractive index is called *  Mark only one oval.
	optically rarer
	optical denser
	optical density
	refractive index

13.	5. The optical phenomena, twinkling of stars, is due to *
	Mark only one oval.
	atmospheric reflection
	total reflection
	atmospheric refraction
	total refraction
14.	6. Which one of the following materials cannot he used to make a lens? *
	Mark only one oval.
	Glass
	Plastic
	Clay
	water
15.	7. The Image formed by a concave mirror is observed to be virtual, erect and larger than the object. Where should be the position of the object? *
	Mark only one oval.
	between the principal focus and the centre of curvature
	at the centre of curvature
	beyond the centre of curvature
	between the pole of the mirror and its principal focus

10.	The mirror and the lens are likely to be *
	Mark only one oval.
	both concave
	both convex
	the mirror is concave and the lens in convex
	the mirror is convex but the lens is concave.
17.	9. No matter how far stand from a mirror, your image appears erect. The mirror is likely to be *
	Mark only one oval.
	plane
	concave
	convex
	either plane or convex
18.	10. Which of the following lenses would you prefer to use while reading small letters found in a dictionary? *
	Mark only one oval.
	a convex lens of focal length 50 cm.
	a concave lens of focal length 50 cm.
	a convex- lens of focal length 5 cm.
	a concave lens of focal length 5 cm.

19.	11. The laws of reflection hold good *
	Mark only one oval.
	plane mirror
	concave mirror
	conves mirror
	all of these
20.	12. As you move an object away from a convex mirror, its image becomes and moves towards*
	Mark only one oval.
	smaller, infinity
	smaller, focus
	enlarged, infinity
	enlarged, focus
21.	13. For a spherical mirror, is true. *
	Mark only one oval.
	f = 2R
	R = 2f
	fR = 2
	fR = ½

22.	14. For a plane mirror, magnification (m) is *
	Mark only one oval.
	<u>±1</u>
	less than equal to zero
23.	15. 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
24.	16. No matter how far is the object from the mirror, the image of the object appears erect. The mirror is *
	Mark only one oval.
	concave
	convex
	either concave or convex
	none of these

25.	17. Absolute refractive index of any medium is always *
	Mark only one oval.
26.	18. A short pulse of white light is incident from air to a glass slab at normal incidence. After travelling through the slab, the first colour to emerge is *
	Mark only one oval.
	blue green violet red
27.	19. A converging lens is used to form an image on a screen. When the upper half of the lens is covered by an opaque screen *  Mark only one oval.
	half of the image will disappear image will not form on the screen intensity of image will increase intensity of image will decrease

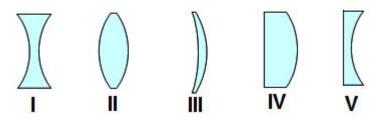
28.	20.The power of concave lens *
	Mark only one oval.
	positive
	negative
	both
	none of the above
29.	21. To increase the magnifying power of a telescope, the focal length of *
	Mark only one oval.
	objective lens should be increased
	objective lens should be decreased
	eye-piece lens should be increased
	eye-piece lens should be decreased
30.	22. A rear-view mirror for driving is *
	Mark only one oval.
	plain
	concave
	convex
	inverted

31.	23. Which of the following is used to split white light into different colours? *
	Mark only one oval.
	glass slab convex lens
	concave lens
	prism
32.	24.Hypermetropia or longsight can be corrected by using *
	Mark only one oval.
	bifocal lenses
	cylindrical lenses
	concave lenses
	convex lenses
33.	25. In mirrors, the back surface is coated with a thin layer of *
	Mark only one oval.
	mercury
	silver
	red oxide
	silver nitrate

34.	26. Which colour of light shows maximum deviation when passed through a prism *
	Mark only one oval.
	red
	green
	violet
	yellow
35.	27. Which of the following is not an electromagnetic wave? *
	Mark only one oval.
	x-rays
	cosmic rays
	Microwave
	all of these
36.	28. A candle is placed in front of a concave mirror. The image produced by the mirror is *
	Mark only one oval.
	real, inverted and magnified
	real, inverted and demagnified
	virtual, upright and magnified
	virtual, upright and demagnified

37. 29. \*

Which of the lens or lenses is the converging lens?



Mark only one oval.

II, III and IV
II and III
III and IV

38. 30.An object is placed in front of a converging lens at a distance greater than 2F. The image produced by the lens is \*

Mark only one oval.

real, inverted and demagnified
real, inverted and magnified
virtual, upright and magnified
virtual, upright and demagnified

39. 31. To increase the magnifying power of a telescope, the focal length of \*

Mark only one oval.

objective lens should be increased
objective lens should be decreased
eye-piece lens should be increased
eve-piece lens should be decreased

40.	32. Why the colour of the ocean appears blue? *
	Mark only one oval.
	because the sunlight falling on it is reflected
	because the sunlight falling on it is refracted
	because the sunlight falling on it is absorbed
	because the sunlight falling on it is scattered
41.	33. In projectors which lenses are used? *
	Mark only one oval.
	convex lens
	concave lens
	bipolar lens
	both (a) and (b)
42.	34. Due to which phenomena the stick if immersed in water appears to be bent? *
	Mark only one oval.
	reflection
	dispersion
	refraction
	scattering

43.	35. Suppose you are standing 1 m in front of a plane mirror. What should be the minimum vertical size of the mirror so that you can see your full image in it? *
	Mark only one oval.
	0.50 m
	2 m
	half of your height
	twice your height
44.	36. A spherical air bubble is embedded in a piece of glass. For a ray of light passing through the bubble, it behaves like *
	Mark only one oval.
	converging lens
	diverging lens
	plano-converging lens
	plano-diverging lens
45.	37. What is the power of the lens, if the far point of a short-sighted eye is 200 cm?
	Mark only one oval.
	-0.5 D
	2 D
	1 D
	1.5 D

46.	38. The human eye is like a camera and hence it contains a system of lens. The eye lens forms *
	Mark only one oval.
	a straight or upright, real image of the object on the retina
	an inverted, virtual image of the object on the retina
	an inverted, real image of the object on the retina
	a straight or upright, real image of the object on the iris
47.	39. How far must an object be from a concave mirror if the image formed is to be inverted? *
	Mark only one oval.
	less than its focal length
	exactly at its focal length
	more than its focal length
	none of the above
48.	40.An object is kept 5 cm in front of a concave mirror of focal length of 15 cm.
	What will be the nature of the image? *
	Mark only one oval.
	virtual, not magnified
	virtual, magnified
	real, magnified
	real, not magnified

49.	41. The head mirror used by E.N.1 doctors is "
	Mark only one oval.
	concave
	convex
	plane
	plano-convex
50.	42. An object is placed at a distance of 12 cm from a convex lens on its principal axis and a virtual image of certain size is formed. If the object is moved further 8 cm away from the lens, a real image of the same size as that of the virtual image is formed. Which one of the following is the focal length of the lens? *
	Mark only one oval.
	15 cm
	16 cm
	18 cm
	20 cm
51.	43. The visible light has a wavelength range from about 380 nm (violet) to 780 nm (red). If an excited object emits light with wavelength of 15 nm, to which one of the following ranges does it belong? *
	Mark only one oval.
	X-ray
	gamma ray
	infrared
	ultraviolet

52.	44. In vacuum, the speed of light *
	Mark only one oval.
	depends on its wavelength
	depends on its frequency
	depends on its intensity
	neither depends on its wavelength, frequency nor intensity
53.	45. Consider the following parts of spectra: 1 visible 2 infrared 3 ultraviolet 4 microwave Which one of the following is the correct sequence in which their wavelengths increase? *
	Mark only one oval.
	4-3-1-2
	4-1-2-3
	3 - 2 - 1 - 4
	3 - 1 - 2 - 4
54.	46.Propagation of light quanta may be described by *
	Mark only one oval.
	photons
	protons
	neutrons
	electrons

55.	47. A candle is placed in front of a concave mirror in between focus and centre of curvature. The image produced by the mirror is *
	Mark only one oval.
	real, inverted and magnified
	real, inverted and demagnified
	virtual, upright and magnified
	real, upright and magnified
56.	48. By which optical phenomenon does the splitting of white light into seven constituent colours occur? *
	Mark only one oval.
	refraction
	reflection
	dispersion
	interference
57.	49. In human eye, the image of an object is formed at *
	Mark only one oval.
	iris
	pupil
	retina
	cornea

58.	50. The focal length of the eye lens changes due to the action of *
	Mark only one oval.
	pupil
	retina
	ciliary muscles
	cornea
59.	51. For which of the following cases will the total internal reflection of light be possible? *
	Mark only one oval.
	angle of incidence is less than the critical angle
	angle of incidence is equal to the critical angle
	angle of incidence is greater than the critical angle
	angle of incidence is equal to the angle of refraction
60.	52. To an astronaut in space, the sky will appear to be *
	Mark only one oval.
	violet
	blue
	red
	black

61.	53. On a rainy day, small oily films on water show brilliant colours. This is due to *
	Mark only one oval.
	scattering
	interference
	polarisation
	dispersion
62.	54. Rainbow formation is due to *
	Mark only one oval.
	absorption of sunlight by water droplets
	diffusion of sunlight through water droplets
	ionisation of water droplets
	refraction and reflection of sunlight by water droplets
63.	55. Golden view of sea shell is due to *
	Mark only one oval.
	diffraction
	dispersion
	polarisation
	reflection

64.	56. Optical fibres are based on the phenomenon of *
	Mark only one oval.
	interference
	dispersion
	diffraction
	total internal reflection
65.	57. Lens in made up of *
	Mark only one oval.
	pyrex glass
	flint glass
	ordinary glass
	cobalt glass
66.	58. Evening Sun is not as hot as the midday sun. What is the reason? *
	Mark only one oval.
	in the evening, radiation travel slowly
	in the evening, the temperature of the sun decreases
	ozone in atmosphere absorbs more light in the evening
	in the evening, radiations travel larger distance through atmosphere

67.	59. Which of the special technique is used in ships to calculate the depth of ocean beds? *
	Mark only one oval.
	laser
	sonar
	sonic boom
	reverberation
68.	60. A periscope works on the principal of *
	Mark only one oval.
	refraction
	total internal reflection
	diffraction
	reflection

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