25/01/2019 1:00 to 2:00 pm

Unit-test-II Sem-V

(Geometrical and physical optics)

1. Explain co-axial systems for equivalent focal length and determine its cardinal points.

2. ~~Write short notes on~~ Attempt any two

a) A co-axial lens system placed in air has two lenses of focal length 3f and F separated by a distance 2f. Find the position of the cardinal points.

b) Write a short note on Huygen's eyepiece.

c) Explain with neat diagram nodal planes and nodal points.

25/01/2019

1	Shaikh Ayesha Akil	Ayesha
2	Sakhare Sonali Pandit	Sonali
3	Shinde Shital Bibhishan	S-B-Shinde
4	Jadhav Rupali Kaluram	JadhavR.K.
5	Mule Ashwini Ashrudas	Mule
6	Kokate priyanka Balu	Priyanka
7	Jagtap Pragati Angad	Pragati
8	Gode Anuradha Balasaheb	A-B-Gode
9	Hannure Gausiya Mohmmad	Gausiya
10	Shaikh Muskan Babu	Muskan
11	Kapase P.M.	P.M.Kapase
12	Nanware V.V	

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02/08/2018 10:30 to 11:15

1) Mordle A.G	A.morale
2) Deshmukh S.B	S Deshmukh.
3) Dange R.A	Rdange
4) Naikwadi A.D	Anaikwadi
5) Sonawane D.A	Sonawane
6) Jadhav. C.A.	Cjadhav
7) Kokate P.B	Pkokate
8) Kokate L.M.	LMkokate
9) Mujawar T.M	Tmujawar.
10) Lukade S.S.	Slukade
11) Shinde R.R.	Shinde
12) Shinde S.S	Sshinde

Unit test - 1.

Chapter - 1. photoelectric effect paper - VIII

marks - 20 Time : 50 min.

Note - 1. Attempt any two questions.

2. All questions carries equal marks.

Q.1. What is photoelectric effect? Obtain relation between photoelectric current and retarding potential — 10 marks.

Q.2 Describe different types of photoelectric cells - 10 marks

Q.3 a) Discuss the applications of photoelectric cells - 5 marks

b) A certain metal has a threshold wavelength of 600 nm. Find the stopping potentials when the metal is irradiated with monochromatic light of wavelength 400 nm — 05 marks.

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02/02/2019 1.

Q.1. obtain Expression for interplanar spacing in cubic crystals.

Q.2. Attempt any two

a) write a short note on fcc structure.

b) calculate co-ordinates of plane (123)

c) write a short note on wigner-seitz cell.

1) Shinde S.S
2) Lotake B.S
3) Deshmukh S.B
4) Naikwaddi A.D
5) Lukade S.S.
6) Morale A.G
7) Mujawar T.M
8) Kokate J.M

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26/12/2018 12:00 to 12:45

UNIT TEST - 2

Q.1 Explain primitive and non-primitive cell. How a wigner-Seitz cell is constructed? - 10 marks.

Q.2 Attempt any two

a) Explain BCC structure.

b) calculate the atomic radius of sodium chloride with lattice parameter $a = 5.58 \text{ Å}$

c) A plane makes intercepts of 1, 2 and 3 Å on the crystallographic axes of orthorhombic crystal with $a:b:c = 3, 2, 1$. Determine the miller indices of this plane.

1) Sonawane D. A
2) Kalaute P.B
3) Mosale A. G
4) Kokate. L.M
5) Dange R.A.
6) Satpute U.B
7) Deshmukh S.B
8) Naikwadi A.D
9) Mujawar T.M

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