

25/01/2019

11:00 to 2:00 PM

Unit - IV - II Sem - II
(Geometrical and physical optics)

3. Explain co-axial system for equivalent focal length and determine its cardinal points.

2. ~~Q. The student must attempt any two~~

a) A co-axial lens system placed in air has two lenses of focal length $2F$ 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. Spohar Aayesha Akic	Ayasha
2. Sakhar Sankar Pandit	Sankar
3. Shinde Shital Bibhishan	S-B-Shinde
4. Jadhav Rupali Kaluram	Jadhav R.K.
5. Male Ashwini Ashrudas	Male
6. Kokate Priyanka Balu	Priyanka
7. Jagtap Pragati Angad	Pragati
8. Gode Anuradha Balasahab	A-B-Gode
9. Hannure Gausiya Mohammad	Gausiya
10. Shaikh Muskan Babu	Muskan
11. Kapase P.M.	P.M. Kapase
12. Wadgaonkar V.V.	V.V. Wadgaonkar



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02/08/2018

10:30 to 11:15

- 1) Mordale A.G.
- 2) Deshmukh S.B.
- 3) Donge R.A.
- 4) Neikwadi A.D.
- 5) Sonawane D.A.
- 6) Jadhav C.A.
- 7) Kokate P.B.
- 8) Kokate L.M.
- 9) Mujawar T.M.
- 10) Lukade S.S.
- 11) Shinde R.R.
- 12) Shinde S.S.

A. Mordale
S. Deshmukh
R. Donge
A. Neikwadi
D. Sonawane
C. Jadhav
P. Kokate
L. Kokate
T. Mujawar
S. Lukade
R. Shinde
S. Shinde

Unit test - 1.

Chapter - 1. photoelectric effect paper - VIII
marks - 20 Time : 50 min.

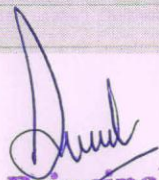
- Note - 1. Attempt any two questions.
2. All questions carries equal marks.

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 450 nm - 5 marks.


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02/02/2019

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 (124).

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

1) Shinde S. S

2) Lotake. B. S

3) Deshmukh S. B

4) Naikwadi A. D

5) Lukade S. S.

6) Morale A. G

7) Mujawar T. M

8) Kokate J. M

~~Shinde~~

~~Lotake~~

Deshmukh.

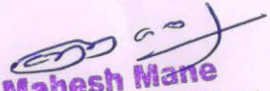
~~Naikwadi~~

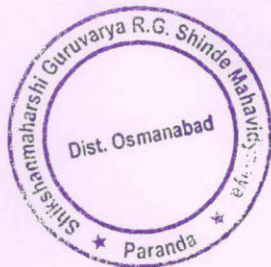
Lukade

A. Morale

Mujawar

Kokate


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26/12/2018

12:40 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 $a = 5.58 \text{ \AA}$

c) A plane makes intercepts of 1, 2 and 3 $\text{\AA}$ 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) Kotate P. B

3) Morale 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

Answer:

Q.1

A. Morale

Q.2

R. A. Dange

U. B. Satpute

S. B. Deshmukh

A. D. Naikwadi

T. M. Mujawar

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