

## MID-1

S.No	Name of the student	Semester	Hall ticket No	Q1(10M)	Q2(10M)	Q3(5M)	Q4(5M)
				L1	L2	L4	L6
				CO1	CO2	CO1	CO1
1		III	236026865001	9		4	
2		III	236026865002		9	4	3
3		III	236026865003	8		4	
4		III	236026865004		7	4	
5		III	236026867002	9		3	
6		III	236026867003		8		4
7		III	236026867007	9			4

CO1. Explain about the different aberrations in lenses and discuss the methods of minimi  
CO2. Understand the phenomenon of interference of light and its formation in (i) Lloyd's  
CO3. Distinguish between Fresnel's diffraction and Fraunhofer diffraction and observe th  
CO4. Explain the various methods of production of plane, circularly and polarized light an  
CO5. Comprehend the basic principle of laser, the working of He-Ne laser and Ruby lasers

CO percentage >50%- Attainment Level-1  
CO percentage 30%-50%- Attainment Level-2

CO percentage <30%- Attainment Level-3

CO Attainments	
S.No	COs number
1	CO1
2	CO2
3	CO3
4	CO4

5	CO5
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CO-PO MATRIX			
	PO1	PO2	PO3
CO1	2	1	3
CO2	3	3	3
CO3	3	1	2
CO4	2	3	1
CO5	3	1	2
PO Attainment	2.22	2.05	2.21

Average PO Attainment	2.18
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MID-2

Q5(5M)	Q6(5M)	Total marks (20M)	Q1(10M)	Q2(10M)	Q3(5M)	Q4(5M)	Total marks (15M)	Seminar (5M)
L3	L5							
CO2	CO2		CO3	CO4	CO5	CO5		
4		17	9		3		12	4
		16		9	4		13	5
4		16	9		5		14	4
4		15	8		4		12	4
3		15		9		3	12	5
		12		8		4	12	4
4		17	8			5	13	5

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single mirror due to division of wave front and (ii) Thin films, Newton's rings and Michelsc  
re diffraction patterns in the case of single slit and the diffraction grating and to describe t  
d their detection and the concept of optical activity.

s and their applications in different fields. To understand the basic principles of fibre optic

	PO Attainment Levels			
CO Attainm ents	Level	contribution		
2.28	1	Relevant and small significance		
1.86	2	medium		
2	3	strong		
1.86				

PO4
1
2
3
2
3
2.25

**Program Outcomes (POs):**

- Graduates of the B.Sc. Physics program will be able to
- PO1: Demonstrate a deep understanding of physical concepts
  - PO2: Use scientific methods to design, conduct, analyze experiments
  - PO3: Apply critical thinking and analytical reasoning to solve problems
  - PO4: Communicate effectively and present scientific information

Assignment (5M)	Extra curricular activities (5M)	Total marks (15M)	Grand total marks(50 M)					
				CO1(15M)	Percentage % of CO1	Attainment CO1	CO2(15M)	Percentage % of CO2
5	4	13	42	13	86	3	4	27
4	5	14	43	7	46	2	9	60
4	4	12	42	12	80	3	4	27
5	5	14	41	4	27	1	11	73
3	4	12	39	12	80	3	3	20
4	3	11	35	4	27	1	8	53
4	4	14	44	13	86	3	4	27
Average						2.28	Average	

on interferometer due to division of amplitude.

the construction and working of zone plate and make the comparison of zone plate with conv

communication and explore the field of Holography and Nonlinear optics and their applicatio

:

- concepts, theories, and applications.
- design, conduct, and interpret experiments.
- use scientific methods to solve scientific problems.
- communicate scientific ideas clearly.

Attaninme nt CO2	CO3(10M)	Percentag e% of CO3	Attaninm ent CO3	CO4(10M)	Percentag e% of CO4	Attaninm ent CO4	CO5(5M)	Percentag e% of CO5
1	9	90	3	0	0	1	3	60
3	0	0	1	9	90	3	4	80
1	9	90	3	0	0	1	5	100
3	8	80	3	0	0	1	4	80
1	0	0	1	9	90	3	3	60
3	0	0	1	8	80	3	4	80
1	8	80	3	0	0	1	5	100
1.86	Average		2	Average		1.86	Average	

ex lens

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Attaninment C05	
	3
	3
	3
	3
	3
	3
	3
	3
3	