

Test: CLAT- 3

SRM Institute of Science and Technology College of Engineering and Technology

DEPARTMENT OF ECE

SRM Nagar, Kattankulathur – 603203, Chengalpattu District, Tamilnadu

Academic Year: 2021-2022 (EVEN)

Date: 21-6-2022

Duration: 08:00 – 09:40 PM

Mode of Exam

OFFLINE

SET A

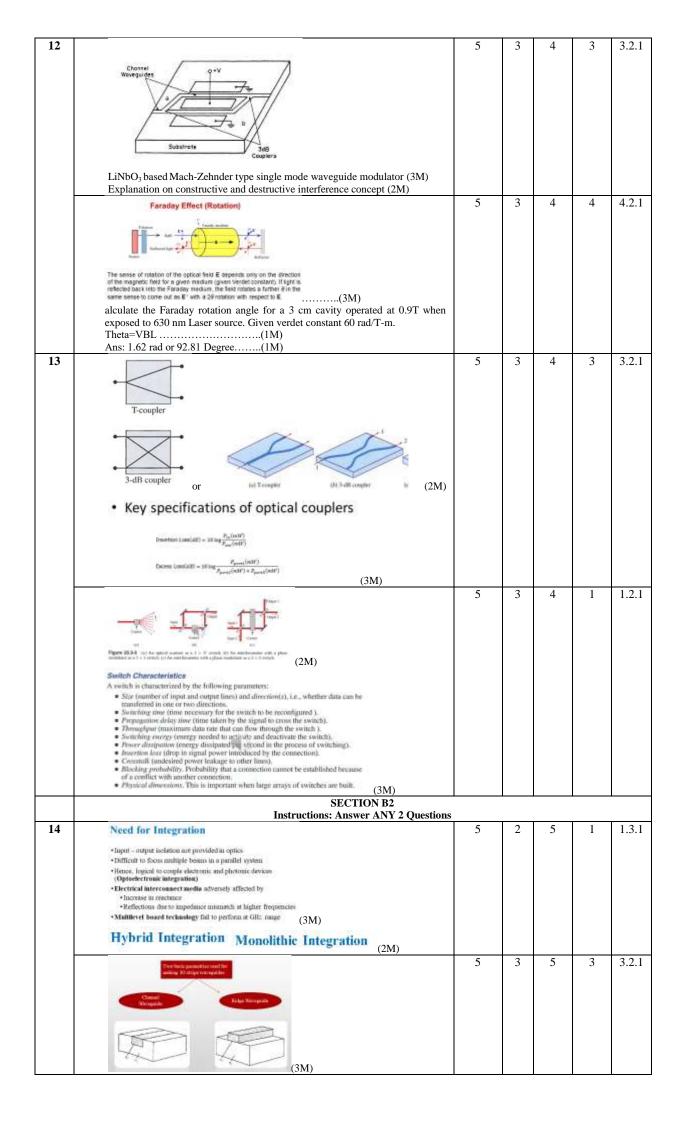
Max. Marks: 50

Course Code & Title: 18ECE322T - OPTOELECTRONICS

Year & Sem: II / 4th Sem
Course Articulation Matrix with PI:

1	18ECE322T- Optoelectronics		Program Outcomes (POs)													P			PSC									
COs	Course Outcomes	181_	1	PI	2	PI	3	PI	4	Pt	5	PI	6	PI	7	PI	PT	9	PI	10	Pf	11	PI	12	PI	1	2	3
co-t	Define the basic concepts of optics and semiconductor optics.	1	3	1.4.1	7		-		-																			1
CO-2:	Demonstrate the working principle of various photonic sources and display devices.	3	3	1.2.1	3	2.1.2	13	19551	1	4.1.1																		3
CO-3:	Analyze the rejectate and appealing of various	*	1		3	2.1.3	2	3.1.1	3	4.1.2																		3
CO-4:	Interpret the various optoelectronic modulators, switches, and interconnects.	3	3	13.1	2	2.2.1	3	3.2.1	-																			2
CO-5:	Apply the concepts of integrated optoelectronic components and its application in various fields.	3	3	1.4.1	-		3	3.2.2	3	4.2.1		ļ., .																3

	Part – A (10 x 1 = 10 Marks)					
Q.	Instructions: Answer ALL the Questions Question	Marks	BL	СО	PO	PI
No 1	(B) Pockels effect	1	1	4	1	1.3.1
2	(C) Modulating the diffraction angle	1	2	4	1	1.3.1
3	(B) 330nm	1	2	4	1	1.3.1
	` '					
4	(D) 3dB coupler	1	1	4	3	3.2.1
5	(A) Lack of compactness and parasitic effects from leads and connectors	1	2	4	1	1.3.1
6	(D) Higher than	1	1	5	1	1.3.1
7	(A) Phased-array antennas (B). High power laser	1	2	5	1	1.3.1 3.2.1
8	(C). OEIC Velocitimeter	1	2	5	3	3.2.1
9 10	(D) LiNbO3	1	1	5	3	3.2.1
10	Part - B	1	1	3	3	3.2.1
	$(4 \times 10 = 40 \text{ Marks})$					
	SECTION B1					
11	Instructions: Answer ANY 2 Questi	ions 5	4	4	1	1.3.1
	Change Change Strain Refractive photoelastic coefficient The remaining with a description of the certain and dissert the forest content of the remaining the relations within the forest content of the remaining the relationship to the relation of the					
	Accessive the control of the control	5	3	4	1	1.3.1



	The first Architecture of a country to the country of		1	1	1	1
	The field distribute of eyes with verspells in the second table:					
15	The management of the first and the first an	5	4	5	1	1.3.1
	rigule (ZM) Explanation (3M)	 _	<u> </u>			<u> </u>
	Fig. 20.2. Deli have compared a workington antiquity assessed by the second sec	5	4	5	1	1.3.1
16		5	4	5	3	3.2.1
	Figure (2M) Explanation (3M)					
	PIN-PD J-FET Zn diffusion n-InGaAs n-InGaAs SiN Cr/Pt/Au Au-Sn S.IInP	5	4	5	3	3.2.1
	Figure (2M) Explanation (3M)					