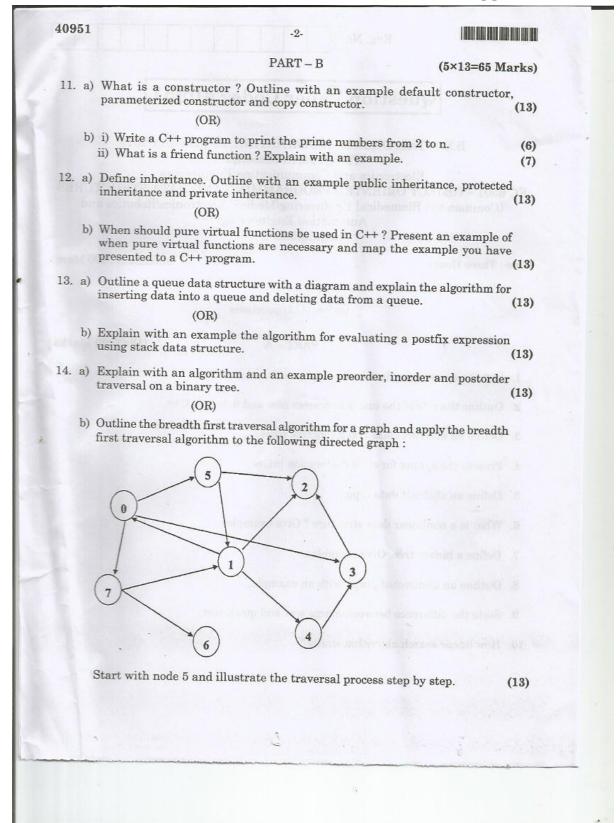
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Q	uestion Paper	Code: 40	951
EC 6301 – OBJEC	Tech. DEGREE EXAMIN Third/Fourth Electronics and Commun CT ORIENTED PROGRA Biomedical Engineering/ Automation En (Regulations	Semester ication Enginee iMMING AND 'Medical Electro gineering)	ering DATA STRUCTURES
Time: Three Hours			Maximum: 100 Marks
	the diagram indepolates and college.		
	Answer ALL o	questions	
	PART -	A	(10×2=20 Marks)
1. List the access	specifiers in C++.		
2. Outline the role	e of the unary operators ne	w and delete in (C++.
3. Define an abstr	ract class and a concrete cla	ass.	
4. Present the syr	ntax for class declaration ir	nC++.	
5. Define an abstr	ract data type.		
6. What is a nonli	inear data structure ? Give	examples.	
7. Define a binary	y tree. Give example.		
8. Outline an und	lirected graph with an exam	mple.	
9. State the differ	rence between merge sort a	and quick sort.	
10. How linear sea	arch algorithm works?		
1,			3

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		ain the merge sort algorithm with an example. (OR)				(13)		
		ne the steps to	steps to perform binary search on a sorted array of			array of 'N' r	of 'N' numbers (13)	
			P	ART – C		(1×15	=15 Marks)	
16. a	a) Write	a C++ program		array of 'n'	numbers in	ascending of	rder. (15)	
	b) Write functi	a C++ progra		ply two ma	atrices. Use	classes and	member (15)	
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