## POLYTECHNIC, B.E/B.TECH, M.E/M.TECH, MBA, MCA & SCHOOL

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106 Reg. No.: Question Paper Code: 90799 B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022. Sixth Semester Information Technology IT 8076 - SOFTWARE TESTING (Common to: Computer Science and Engineering / Computer and Communication Engineering) (Regulations 2017) Maximum: 100 marks Time: Three hours Answer ALL questions. PART A —  $(10 \times 2 = 20 \text{ marks})$ software testing a process? Justify What is the difference between error and defec Define Cyclomatic complexity. Define Test case. Give its basic structure. What is Test Harness? Define Regression Testing. 7. Bring out the role of Testing group. Define Test plan. 8. State the advantages of test automation. 9. What is the role of testing tools? Give its advantages. PART B —  $(5 \times 13 = 65 \text{ marks})$ 11. (a) (i) Define Software Testing. Explain the various principles of software (ii) Explain the various types of Defect classes with suitable example. Or State the origins of Defects and explain how cost of defect is (b) (i) Discuss the role of testers in software development organization. (7)

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	12.	(a)		Give any two Test Adequa evaluated.	cy criteria and expla	in how it is (6)
	*		(ii)	With suitable example, explain	State-based testing.	(7)
				Or		
		(b)	(i)	Compare and contrast static te	esting and structural tes	sting. (6)
			(ii)	Explain how code complexity a	nd code functionality is	tested. (7)
	13.	(a)	(i)	With a neat diagram, explain t	he unit testing environ	ment. (6)
			(ii)	Discuss the various types of t	esting carried out in s	ystem testing. (7)
				Or		
		(b)	(i)	Define Integration Testing. De	scribe its types with ex	ample. (6)
			(ii)	Discuss about the key attribut	es to be tested in websit	e testing. (7)
	14.	(a)	(i)	Give the organization structur	e for testing teams.	(6)
			(ii)	Explain the activities involved	in test management.	(7)
				Or		
		(b)	(i)	With a neat diagram, explain t	he components of Test 1	Plan. (6)
				Bring out the different skills n		
V	15.	(a) (b)	auton With	Software test automation action. Also explain the challer or suitable example explain above and productivity metrics.  PART $C - (1 \times 18)$	ges in automation. ut various project met	(13)
	16.	(a)	Draw the flow chart for finding the greatest of three numbers and Perform Basis Path testing for the given program. (15)			
				Or		
		(b)	Perfor	m Black box (Equivalence	Partitioning and Box	ındary Value
			Analy	sis) testing for a Student Grad		(15)
				Mark Range	Grade	
				>90	S	
				80 to 90	A	
				70 to 80	В	
				60 to 70	С	
				50 to 60	D	
				<50	F	
				ne wan materi <del>. In coales</del>	in make the state	
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