This question paper contains 2 printed pages]

NY-141-2023

FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (First Year) (Second Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(CBCS/New Pattern)

COMPUTER SCIENCE

Paper CS-202

(Software Engineering)

(Friday, 8-12-2023)	Time: 10.00 a.m. to 1.00 p.m.
Time—Three Hours	Maximum Marks—75
N.B. := (i) Attempt all questions.	
(ii) Assume suitable data, if necess	sary.
1. Explain the software characteristic. Discus	ss the software myths. 15
OF STATE OF	
(a) Explain the concept of 'Use Cases'	with example. 8
(b) Explain the Design Model.	7
2. Define Software Engineering? Explain in	detail a process framework. 15
or series	
(a) Discuss the strategic issues of testi	ng. 8
(b) Explain control structure testing.	7
	P.T.O.

		13	2	(O)		N A S	1Y—14]	L—2023
What	is Requirement	Engineeri	ng ?	Explain	how	to initia	ite and	elicitie
requir	ements.	(B) (S				Y SE		15
		8 8	Or					
(a)	Describe the cat	tegories of	Softv	vare.		10 ×		8
(<i>b</i>)	Explain the con	cept of Le	gacy	Software	18 D			7
Descri	ibe the strategic	approach t	o sof	tware te	sting.	BENT		15
			Or			5		
(a)	Explain in deta	il spiral m	odel.			68	B	8
(<i>b</i>)	Explain the con	cept of pro	cess	potterns	0	SE CY		7
Write	short notes on ((any three)	3.					15
(a)	Software Engine	eering—A	layer	ed techn	ology			
<i>(b)</i>	Prototyping							
(c)	The design mod	lel s						
(d)	Debugging proce	ess				STOP!		
(e)	Black box testir	ng.						
	(a) (b) Description (a) (b) Write (a) (b) (c) (d)	requirements. (a) Describe the cat (b) Explain the con Describe the strategic (a) Explain in deta (b) Explain the con Write short notes on ((a) Software Engine (b) Prototyping (c) The design mod (d) Debugging process	requirements. (a) Describe the categories of (b) Explain the concept of Leg Describe the strategic approach to (a) Explain in detail spiral m (b) Explain the concept of pro Write short notes on (any three) (a) Software Engineering—A (b) Prototyping (c) The design model (d) Debugging process	requirements. Or (a) Describe the categories of Softw (b) Explain the concept of Legacy Describe the strategic approach to soft Or (a) Explain in detail spiral model. (b) Explain the concept of process Write short notes on (any three): (a) Software Engineering—A layer (b) Prototyping (c) The design model (d) Debugging process	requirements. Or (a) Describe the categories of Software. (b) Explain the concept of Legacy Software to Describe the strategic approach to software te Or (a) Explain in detail spiral model. (b) Explain the concept of process potterns. Write short notes on (any three): (a) Software Engineering—A layered technology Prototyping (c) The design model (d) Debugging process	requirements. Or (a) Describe the categories of Software. (b) Explain the concept of Legacy Software. Describe the strategic approach to software testing. Or (a) Explain in detail spiral model. (b) Explain the concept of process potterns. Write short notes on (any three): (a) Software Engineering—A layered technology (b) Prototyping (c) The design model (d) Debugging process	What is Requirement Engineering? Explain how to initial requirements. Or (a) Describe the categories of Software. (b) Explain the concept of Legacy Software. Describe the strategic approach to software testing. Or (a) Explain in detail spiral model. (b) Explain the concept of process potterns. Write short notes on (any three): (a) Software Engineering—A layered technology (b) Prototyping (c) The design model (d) Debugging process	Or (a) Describe the categories of Software. (b) Explain the concept of Legacy Software. Describe the strategic approach to software testing. Or (a) Explain in detail spiral model. (b) Explain the concept of process potterns. Write short notes on (any three): (a) Software Engineering—A layered technology (b) Prototyping (c) The design model (d) Debugging process

NY—141—2023