Roll No.:

Hart Royal D

333653(33)

B. E. (Sixth Semester) Examination, April-May 2020

(New Scheme)

(IT Branch)

SOFTWARE ENGINEERING & PROJECT MANAGEMENT

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) of each question is compulsory and carries 2 marks. Attempt any two parts from (b), (c) & (d) of each question which carries 7 marks each.

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1. (a) Define Software and Software Engineering.

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	(b)	Discuss the various managerial issues that are to	
		be taken into consideration in the software	
		development process.	7
	(c)	Explain Win-Win Spiral model for project manage-	
		ment process for software development.	7
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	(d)	Explain the following software process models	7
		(i) Rapid Application Development Model	
		(ii) Incremental Model	
		PROBLEM STANDSHAM & BROTH	
		Unit-II	
2.	(a)	Explain functional and non-functional requirements.	2
	(b)	What is SRS? How SRS is useful in software	
		development?	7
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	(c)	"SCM will sequentially control the changes during	
		the software development." Comment.	7
	(d)	Explain requirement engineering. Also explain each	
		step of requirement engineering process.	7
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3.	(a)	What do you mean by good design?	2	
	(b)	Explain cohesion and coupling related to software design process.	7	
	(c)	Explain Milestone, walkthrough and inspection.	7	
	(d)	Explain Architectural design and user interface design.	7	
		Unit-IV		
4.	(a)	Write difference between Verification and Validation.	2	
	(b)	What are the different types of tests that software undergoes during the life cycle?	7	
	(c)	Explain difference between white box and black box testing.	7	
	(d)	What is Debugging? And discuss their types.	7	
Unit-V				
5.	(a)	Explain Software Maintenance.	2	

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(b) Explain software cost estimation techniques.		7
(c) Describe that CASE tools.		7
(d) Assume that size of a semi-detached type softw	ware	
project is 30000 LOC. Compute the effort	and	
duration of the project.		7
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