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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA II Semester Examinations, January – 2018 SOFTWARE ENGINEERING

Time: 3hrs Max.Marks:60

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

PART - A		
$5 \times 4 \text{ Marks} = 20$		
1.a)	Discuss about the changing nature of software.	[4]
b)	Distinguish between user requirements and system requirements.	[4]
c)	What are the user interface design steps?	[4]
d)	Discuss the significance of white-box testing.	[4]
e)	Explain about RMMM plan.	[4]
- /	PART – B	
$5 \times 8 \text{ Marks} = 40$		
2.	Describe a generic view of process and also describe the significance of CMMI. OR	[8]
3.	Explain spiral model. Discuss how it is different from incremental models.	[8]
4.	With a neat diagram, explain clearly the requirements engineering process. OR	[8]
5.a)	Write the general form of a software requirements document and explain it clearly	/ .
b)	Discuss the significance of non-functional requirements for a software project.	[4+4]
6.	Write brief notes on the following:	
	a) Designing conventional components	
	b) Architectural styles and patterns.	[4+4]
	OR	[]
7.	Discuss, why user interface design is more crucial for success of a software	project
, .	Discuss various user interface design guidelines.	[8]
8.	What are the metrics for software process and products? Explain them clearly. OR	[8]
9.	What is meant by debugging? State and explain various debugging approaches.	[8]
10.a)	Discuss the metrics for software reliability.	
b)	Explain about risk projection activity with a suitable example. OR	[4+4]
11.	What is meant by SQA? Discuss about statistical software quality assurance.	[8]
11.	That is meant by 5011. Discuss about statistical software quality assurance.	Γ_{Ω}

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