Code No: 115EM

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, November - 2015 SOFTWARE ENGINEERING (Common to CSE, IT)

Time: 3 hours Max. Marks: 75

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

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B

consists of 5 Units. Answer any one full question from eac	h unit. Eac	ch question	carries				
10 marks and may have a, b, c as sub questions.	JJ	JJ	JJ				
PART - A (25							
What is an agile process? Exprain.	JJ	JJ	[2]				
What is an agile process? Explain. What is the difference between a UP Phase and a UP Workflow?							
,							
What are the characteristics of good SRS document?			[2] [3]				
	JJ	33	[2]				
1 0							
What is Cyclomatic complexity? What is its purpose?			[3] [2]				
· · · · · · · · · · · · · · · · · · ·	JJ	JJ	J[3]				
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Can a program be correct and still not exhibit good quality	? Explain.		[3]				
J JJ JJ FART - B ^{IJ} JJ	JJ	^{JJ} (50 M	arks)				
What is the purpose of process assessment? Why h	as SPICE	been dev	eloped				
. 1 1			JJ				
	can you	say abou	it the				
	•		[5+5]				
l ij li li OM li	JJ	1.1	JJ				
	JJ	JJ	JJ				
What are the five generic process framework activities? Ex		JJ	JJ				
What are the five generic process framework activities? Ex Explain different levels of Capability Maturity mode	plain.						
Explain different levels of Capability Maturity mode	plain. el and lis	st the KPA					
Explain different levels of Capability Maturity mode	plain.		A's of				
Explain different levels of Capability Maturity mode	plain. el and lis	st the KPA	A's of [5+5]				
Explain different levels of Capability Maturity mode each level. What is the goal of requirements analysis phase requirements analysis phase is a difficult one.	plain. el and lis	st the KPA	A's of [5+5]				
Explain different levels of Capability Maturity mode each level. What is the goal of requirements analysis phase	plain. el and lis	st the KPA JJ reasons wh	A's of [5+5]				
Explain different levels of Capability Maturity mode each level. What is the goal of requirements analysis phase requirements analysis phase is a difficult one.	eplain. el and lis JJ ? Give r	st the KPA JJ reasons wh	A's of [5+5] by the				
Explain different levels of Capability Maturity mode each level. What is the goal of requirements analysis phase requirements analysis phase is a difficult one. Briefly explain the models used for structured analysis. OR Differentiate between functional and non-functional	eplain. el and lis JJ ? Give r	st the KPA JJ reasons wh	A's of [5+5] by the				
Explain different levels of Capability Maturity mode each level. What is the goal of requirements analysis phase requirements analysis phase is a difficult one. Briefly explain the models used for structured analysis. OR Differentiate between functional and non-functional examples.	eplain. el and lis JJ ? Give r JJ ional rec	st the KPA JJ reasons wh JJ quirements	A's of [5+5] by the [5+5] with				
Explain different levels of Capability Maturity mode each level. What is the goal of requirements analysis phase requirements analysis phase is a difficult one. Briefly explain the models used for structured analysis. OR Differentiate between functional and non-functional	eplain. el and lis JJ ? Give r JJ ional rec	st the KPA JJ reasons wh JJ quirements	A's of [5+5] by the [5+5] with				
	What is an agile process? Explain. What is the difference between a UP Phase and a UP Work What is the intent of requirements validation? What are the characteristics of good SRS document? Differentiate between coupling and cohesion. How do we assess the quality of software design? What is Cyclomatic complexity? What is its purpose? What are the metrics used for software maintenance? What is software reliability? Define. Can a program be correct and still not exhibit good quality. FART - B What is the purpose of process assessment? Why has a standard process assessment? Explain Spiral model with a neat sketch. What software that is being developed or maintained as the spiral process flow?	What is an agile process? Exprain. What is the difference between a UP Phase and a UP Workflow? What is the intent of requirements validation? What are the characteristics of good SRS document? Differentiate between coupling and cohesion. How do we assess the quality of software design? What is Cyclomatic complexity? What is its purpose? What are the metrics used for software maintenancs? What is software reliability? Define. Can a program be correct and still not exhibit good quality? Explain. **PART - B** What is the purpose of process assessment? Why has SPICE as a standard process assessment? Explain Spiral model with a neat sketch. What can you software that is being developed or maintained as you move the spiral process flow?	What is an agile process? Exprain. What is the difference between a UP Phase and a UP Workflow? What is the intent of requirements validation? What are the characteristics of good SRS document? Differentiate between coupling and cohesion. How do we assess the quality of software design? What is Cyclomatic complexity? What is its purpose? What are the metrics used for software maintenance? What is software reliability? Define. Can a program be correct and still not exhibit good quality? Explain. FART - B (50 M What is the purpose of process assessment? Why has SPICE been dev as a standard process assessment? Explain Spiral model with a neat sketch. What can you say abort software that is being developed or maintained as you move outward the spiral process flow?				

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JJ		iples to su	concepts apport your ocess of ma	discussion	n. a flow into				? Provide [5+5]	JJ
JJ	7.a) JWrite	e that tax	onorw of	arcl tecti	OR iral styles	and give	a dhief	description	n of each	JJ
	style		Ollolay of	arcinteett	irai styles	and give	a offici	description	i or cacii	
JJ	-	and exp	olain the g	generic ta	sks that a	are always	performe JJ	ed in user	interface [5+5]	JJ
	8.a) What	t is the	need of	software	testing?	What a	re its m	ain obiec	tives and	
JJ	princ	iples?	ndary Value		(BVA) tes			JJ	[5+5]	JJ
	O a) What	t oro t	ha main	objective	OR	oftwee	varifiaatio	n and r	validation?	
	9.a) What		he main n different V			oftware	vermeano	n and v	alidation?	
JJ	b) Disci	uss the s	oftware me	etrics that	can be a		-		ssment of [5+5]	JJ
JJ	10.a) Explain Explain Explain		126 quality as software				ow to assu	re them.	[5+5]	JJ
	11.a) Expl	ain the fac	ctors that af	fect softw		·_				
JJ	b) List	the major	risks in a s	oftv are p			majer way	s to abate	the risk of [5+5]	JJ
JJ	JJ	JJ	JJ	JJ	JJ	JJ	JJ	JJ	JJ	JJ
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