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Total No. of Questions: 9]

[Total No. of Printed Pages: 4

(2040)

B.C.A. (CBCS) RUSA VIth Semester Examination

3842

SOFTWARE ENGINEERING

Paper: BCA-0605

Time: 3 Hours]

[Maximum Marks: 70

Note: Attempt five questions in all. Part-A (Q. No. 1) is compulsory. Select one question each from Unit I to IV.

Part-A

(Compulsory Question)

1. (A) Attempt all parts:

Select the correct option for MCQ's.

- (i) Which of the following is/are considered stakeholder(s) in the software process?
 - (a) Customers
 - (b) End Users
 - (c) Project Managers
 - (d) All of these

CA-698

(1)

Turn Over

340000	e process of developing a software		
	oduct using software engineering		
pri	nciples and methods is referred to as		
	Scientific product		
3.75	Scientific product		
6.75	Software myth		
	Software evolution		
	None of these		
	nich is the most important feature of ral model?		
(a)	Quality management		
· (b)	Risk management		
(c)	Performance management		
(d)	Efficiency management		
(iv) Des	sign phase is followed by:		
- (a)	Coding		
(b)	Testing		
(c)	Maintenance		
(d)	None of these		
(v) Waterfall model is not suitable for			
~(a)	Small projects		
(b)	Complex projects		
•(c)	Accommodating changes		
(d)	None of these		
CA-698	(2)		

- (vi) Requirement elicitation is a cyclic process.(True/False)
- (vii) SDLC stands for
- (viii) SRS stands for
- (ix) A software engineer must design the modules with the goal of high cohesion and low coupling. (TrueFalse)
- (x) Functional requirements capture the intended behaviour of the system.

(TrueFalse) 1×10=10

- (B) Answer the following in 25 to 50 words:
 - (xi) What are the desired characteristics of a software process?
 - (xii) Write the distinct steps in requirement engineering process.
 - (xiii) Differentiate between validation and verification.
 - (xiv) What are the characteristics of a good design?
 - (xv) Discuss the components of a SRS document. 4x5=20

Part-B (Unit-I)

2. (a) What are the various phases in Software Engineering?

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	(b)	Discuss 'Software Engineering as a management Science'.	6,4
3	3. (a)		
	(b)	What are the advantages of incremental process model ?	6,4
		Part-C (Unit-II)	
4	. (a)	What is requirement specification?	
	(b)	What is the need of requirement analysis?	5,5
5.	(a)	What is the role of Software architecture ?	
	(b)	What do you mean by performance analysis?	5,5
		Part-D (Unit-III)	
6.	(a)	Discuss function oriented design principles.	
	(b)	Explain structured design methodology.	5,5
7. •	-(a)	Discuss object oriented concepts in detail.	
	(b)	What is Functional Modelling? Explain.	6,4
		Part-E (Unit-IV)	
8.	(a)	Give the steps to design algorithm.	
	(b)	Write a short note on critical design review.	5,5
9.	(a)	What are the steps involved in code review ?	٠,٠
	(b)	What is Refactoring ? Explain in brief.	5,5