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MCA-17

Software Engineering

Master of Computer Application (MCA–16/MCA–11)

Fifth Semester, Examination, 2017

Time: 3 Hours Max. Marks: 60

Note: This paper is of sixty (60) marks containing three (03) sections A, B, C. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section-A

(Long Answer Type Questions)

Note: Section 'A' contains four (04) long answer type questions of fifteen (15) marks each. Learners are required to answer *two* (02) questions only.

- 1. (a) Describe waterfall model in detail.
 - (b) Distinguish verification with validation.
- 2. What do mean by Project Management? Discuss in detail.
- 3. (a) Describe various aspects of Software Maintenance.
 - (b) What are the categories of software risks?

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- 4. Write short notes on any *two* of the following :
 - (a) Decision Tree
 - (b) Verification vs. Validation
 - (c) Software Reverse Engineering
 - (d) Modularization

Section-B

(Short Answer Type Questions)

Note: Section 'B' contains eight (08) short answer type questions of five (05) marks each. Learners are required to answer *four* (04) questions only.

- 1. What is the principal aim of the software engineering discipline?
- 2. What is a Flow Chart ? How is the flow charting technique useful during software development ?
- 3. What are the major advantages of first constructing a working prototype before developing the actual product?
- 4. List the major responsibilities of a software designer.
- 5. What are the different categories of software development projects according to the estimation model?
- 6. What is the need of requirement analysis phase?
- 7. How can we characterize a good software design?
- 8. What are the main advantages of using an object oriented approach to software design over a function oriented approach?

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Section-C

(Objective Type Questions)

Note: Section 'C' contains ten (10) objective type questions of one (01) mark each. All the questions of this section are compulsory.

		· · · · · · · · · · · · · · · · · · ·					
		the correct answer from	_				
1.	Which of the following is not a desirable characteristic of SRS document?						
	(a)	Concise	(b)	Ambiguous			
	(c)	Traceable	(d)	Verifiable			
2.	Design phase is followed by:						
	(a)	Coding	(b)	Testing			
	(c)	Maintenance	(d)	None of these			
3.	Grouping of all functionality related elements is known as:						
	(a)	Cohesion					
	(b)	Coupling					
	(c)	Both (a) and (b)					
	(d)	None of these					
4.	Project risk factor is considered in which model?						
	(a)	Spiral	(b)	Waterfall			
	(c)	Prototyping	(d)	None of the above			
5.	Measurements can be categorized in two-ways wha are these two-ways?						
	(a)	Direct and Indirect					
	(b)	Front and Rear					
	(c)	Metric					
	(d)	Quality and Reliabilit	y				

		•						
6.	(a) (b)	Developer's end User's end Both (a) and (b)						
	` '	None of these						
7.		ch one of the folotyping Model?	llowing	is not	a phase	e of		
	(a)	Quick design						
	(b)	Coding						
	(c)	Prototype refinemen	ıt					
	(d)	Engineer product						
8.	Which tool is use for structured designing?							
	(a)	Program flowchart						
	(b)	Structure chart						
	(c)	Dataflow diagram						
	(d)	Module						
9.		importance of softw single word which is		gn can b	e summa	rized		
	(a)	Efficiency	(b)	Accura	cy			
	(c)	Quality	(d)	Comple	exity			
10.	Cohesion is a qualitative indication of the degree to which a module :							
	(a)	can be written more	compac	tly				
	(b)	(b) focuses on just one thing						
	(c)) is able to complete its function in a timely manner						
	(d)	is connected to otl	ner mod	lules and	d the ou	tside		

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