BACHELOR OF COMPUTER APPLICATION Third Semester (Repeat) SOFTWARE ENGINEERING (BCA - 12)

Duration: 3Hrs. Full Marks: 70 Part-A (Objective) =20 Part-B (Descriptive) =50 (PART-B: Descriptive) Duration: 2 hrs. 40 mins. Marks: 50 Answer any four from Question no. 2 to 8 Question no. 1 is compulsory. 1. Explain the characteristics of software testing fundamentals. (10)2. What is Software? Explain the characteristics and applications of software. (2+8=10)3. What is software reuse? Explain components and types of Case tools. (2+8=10) 4. What is Software Quality? Explain different elements of software quality assurance. (3+7=10)5. What is Software Process Model? What are the activities of process framework? Explain the Spiral model. (2+3+5=10)6. What are the three major categories of software engineering resources explain with a neat diagram? What are the objectives of Requirement analyses? (5+5=10)7. Explain white and Black box testing. Explain how Software testing strategy may also be viewed in the context of the Spiral with a neat diagram. (3+7=10)8. Explain the following terms: i) Direct measures and indirect measures of Software. (5) ii) Reliability and Testability of software. (5)

[C] Design

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Duration: 20 minutes		Marks – 20		
(PART A - Objective Type)				
I. Choose the correct answer:		1×20=20		
1. What is the goal of the requirement an	nalysis and specification phase of s	oftware development		
life cycle?				
[A] Understanding the customer requi	irement and organize them in an in	formal document.		
[B] Analysing the cost of developmen	nt.	*		
[C] Determining scope of the software	e.			
[D] None of the above.				
2. What is the final outcome of the requi	irement analysis and specification r	phase?		
[A] Drawing the DFD	[B] The SRS document			
[C] Design and Coding	[D] The user manual			
3. An ER diagram depicts				
[A] Entities	[B] Keys			
[C] Relationships	[D] All of the above			
4. The database design activity deals wit	th the design of the			
[A] Logical Database	[B] Physical Database			
[C] Both [A] & [B]	[D] Only [B]			
5. Testing can be applied to				
[A] Requirements	[B] Analysis			

[D] Code

6. Which one of the foll	owing testing is pe	erformed by user?	
[A] Acceptance Testi	ng	[B] Unit testing	
[C] Compatibility Te	sting	[D] None of these	
7. The CASE tools are u	used for		
[A] System requirement	ent analysis	[B] System designing	
[C] I/O design		[D] None of the above	
8. The CASE repository	7		
[A]Works as storage		[B] Provide valuable information to project manager	
[C] Both [A] & [B]		[D] Only [B]	
9. Central repository of	CASE tools also s	erves as data dictionary.	
[A] True [B] Fa	ılse		
10.If a direct approach to	o software project	sizing is taken, size can be measured in terms of	
[A] LOC (Line of coo	de)	[B] FP (Function Point)	
[C] LOC & FP		[D] None of the mentioned	
11.If an indirect approac	h is taken, then the	e sizing approach is represented as	
[A] LOC (Line of code)		[B] FP (Function Point)	
[C] Fuzzy Logic		[D] LOC & FP	
12.The	_ defines quality of	f software in terms of the original specification of the	
product.			
[A] User view		[B] Product view	
[C] Value-based view	I	[D] Manufacturer's view	
13.MTTF stands for			
[A] Minimum time to	failure	[B] Mean time to failure	
[C] Maximum time to	failure	[D] All of the above	

14. The foundation for software engineering	g is the layer.
[A] Tools	[B] Methods
[C] Process	[D] Quality Focus
15. Which of the following is not a product	matrix?
[A] Size	[B] Reliability
[C] Functionality	[D] Productivity
16.SDLC stands for	
[A] Software design life cycle	[B] Software development life cycle
[C] System design life cycle	[D] System development life cycle
17. Which of the following is not the charac	teristic of software?
[A] Software does not wear out	[B] Software is flexible
[C] Software is not manufactured	[D] Software is always correct
18.Management of software development is	s depending upon?
[A] People	[B] Product
[C] Process	[D] All of the Above
19.During software development which fact	tor is most crucial?
[A] People	[B] Product
[C] Process	[D] Project
20.Project risk factor is considered in?	
[A] Waterfall model	[B] Spiral model
[C] Prototyping model	[D] Iterative enhancement model
