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BCA-15

Software Engineering

Bachelor of Computer Application (BCA–11/16/17)

Fifth Semester, Examination, 2018

Time: 3 Hours Max. Marks: 80

Note: This paper is of **eighty (80)** marks containing **three (03)** Sections A, B and C. Learners are required to 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 nineteen (19) marks each. Learners are required to answer *two* (02) questions only.

- 1. (a) What is the need of Software Engineering? Explain.
 - (b) What is decision table? Explain with suitable example.
 - (c) Why is testing important? Discuss Black box testing.
- 2. (a) What is feasibility study? Why is it important?
 - (b) What is prototyping model for software development? Explain.
 - (c) Differentiate between validation and verification.

- 3. (a) What are the various parameters which define the quality of software? How can it be measured?
 - (b) Differentiate between coupling and cohesion.
 - (c) Define entity relationship diagram with suitable example.
- 4. (a) What is data dictionary? What is the use of data dictionary in software engineering?
 - (b) Explain Stress Testing and Storage Testing.
 - (c) What are the characteristics of SRS (System Requirement Specification)?

Section-B

(Short Answer Type Questions)

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

- What are the main merits of using DFD (Data Flow Diagram)? Explain the benefit of using Data Flow Diagram.
- 2. What do you understand by testing strategies? Explain performance testing.
- 3. What is input-output design? Explain with the help of suitable example.
- 4. What are the different system development phases? Explain prototyping model.
- 5. What is the difference between user transaction requirement and user design requirement?

- 6. What is decision table? What are the different sections in a decision table?
- 7. What is coupling? What are the different types of coupling? Explain.
- 8. What do you understand by module concept in structured system design? Explain types of modules.

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.

1.	Project risk factor is considered in n			
	(a)	Spiral Model		
	(b)	Waterfall Model		
	(c)	Classical Waterfall Model		
	(d)	Iterative Model		
2.	Fun	ctional testing is also known as	testing.	
	(a)	Behaviour Testing		
	(b)	White-Box Testing		
	(c)	Acceptance Testing		
	(d)	None of the above		
3. Alpha testing is done by				
	(a)	Customers		
	(b)	End-Users		
	(c)	Friendly Customers		
	(d)	Developers		

4.		•			is	usually	estimated	at
			•					
	(a)	Testin	g Ph	ase				
	(b)	Development Phase						
	(c)	Mainte	enan	ce Phase				
	(d)	Develo	oped	Phase				
5.	Blac	ck box t	estin	g is also kı	10WI	n as	testin	ıg.
	(a)	Struct	ural					
	(b)	Stress						
	(c)	Storag	je					
	(d)	Behav	ioral					
6.			testi	ng is cond	ucte	d by end i	user rather t	han
	deve	eloper.						
	(a)	Perfor	man	ce				
	(b)	Accep	tance	e				
	(c)	Storag	je					
	(d)	Stress						
7.		n	node	l uses as a	risk	reduction	mechanism	1.
	(a)	Spiral	Mod	lel				
	(b)	Water	fall N	Model				
	(c)	Classi	cal V	Vaterfall M	[ode]	[
	(d)	Iterati	ve M	odel				

The	term is used to describe something that					
	enterprise/application recognizes in the area under					
	stigation and wishes to collect and store data					
abou	ıt.					
(a)	Prototype					
(b)	Entity					
(c)	Risk					
(d)	Relationship					
Software engineering is an engineering discipline whose goal is the						
(a)	Cost-effective development of software systems					
(b)	Operate the hardware of system					
(c)	An operating system					
(d)	None of the above					
For	software development life cycle you can prepare					
	·					
(a)	Flow chart					
(b)	Shell program					
(c)	Class					
(d)	None of the above					
	he est investable (a) (b) (c) (d) Soft who (a) (b) (c) (d) For (a) (b) (c)					

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