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BCA(III) — Soft. Test. (304) SEC

## 2019

Time: 3 hours

Full Marks: 70

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from all the Sections as directed.

# Section – A (Compulsory)

1.			the appropriate g multiple choic						
	(a)	cor	integ	ation testing begins I testing with atomic					
		(i)	Top Down	(ji) , Bo	ottom Up				
15.		(iii)	Up-down	(iv) To	p-up				
	(b)focuses on functional requi								
		of the software.							
		(i)	Red-Box Testi	ng					
DY	_ _10	/3	Part & Sy,		(Turn o	ver)			

	(ii) ·	Black-Box lest	ing					
Tirk	(iii)	Glass-Box Test	ting	COPVENENT RE				
35 20	(iv)	Blue-Box Testin	ng					
(c)	The	objective of testing is:						
_	A(i)	Debugging						
	(ii)	To Uncover em	or					
	(iii)	To gain modula	rity					
	(iv)	To analyze system						
(d)	Whi	hich of the following is not a software life						
	cycle model ?							
	(i)	Spiral Model						
	(ii) Waterfall Model							
	(iii) Prototyping Model							
	(iv) Capability Maturity Model							
(e)	dev	_ · ·		mponents by the der which types of				
	(i)	Integration Testi	ng(ii)	Validation Testing				
17:1	_(iii)	Unit Testing	(iv)	None of these				
<b>(f)</b>	(f) Which of the following is the Proce Improvement Model?							
	(i)	CMMI	(ii)	Agile				
	(iii)	Prototyping	(iv)	V Model				
(g)	Bet	ta testing is done at :						
	(i)	User's End						
	(ii)	Developer's E	nd					
DY - 10	0/3	(2	<b>)</b>	Contd.				

(iii) User's and Developer's end
S. What is test plan in a season of these seasons (iv). None of these
(h) Which of the following is not used in
measuring the size of the software?
(i) KLOC (ii) Function Point
(iii) Size of module (iv) None of these
(i) Which of the following is not a type of
incremental testing approach?
(i) Big-bang olympas sideflux s daw
(ii) Top-down
(iii) Bottom up
(iv) Functional incrimination
(j) Which of the following is a form of functional
testing?
(i) Security level testing
(ii) Boundary value analysis
(iii) Performance testing
(iv) Usability testing
Section - B
Answer any four questions of the following: $5\times4=20$
2. Explain Software Process Model.
<ol> <li>Describe the term Software Varification and Validation.</li> </ol>
4. Describe the V process model.
DY-10/3 (3) (Tum over)

### in User's and Developer's end

- 5. What is test plan and contents available in a Test Plan?
- Explain the Environment of Testing.
- 7. What is the role of quality assurance in software development?
- 8. Explain the boundary value analysis technique with a suitable example.
- 9. What is a graph matrix? How is it related to a connection matrix?

#### Section - C

Answer any two questions of the following:

 $15 \times 2 = 30$ 

- 10. What is cyclomatic complexity? Discuss different ways to compute it with example.
- 11. Describe the various types of testing during software development.
- 12. What are the different types of structural testing techniques? Discuss any two techniques with the help of examples.
- 13. What are the various types of functional testing technique? Also explain the boundary value analysis technique with suitable example.

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