# TILAK MAHARASHTRA VIDYAPEETH, PUNE BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)

# EXAMINATION: NOVEMBER/DECEMBER - 2018

## FIFTH SEMESTER

Sub: Software Testing /SQT (BCA - 435/543)

Date	: 05/12/2018	Total Marks: 60	Time: 10.00 am to 12.30 pm	
Instructions:				
	1. All questions are compulsory unless and otherwise stated.			
	<ol> <li>Bold figures to the right of every question are the maximum marks for that question.</li> <li>Candidates are advised to attempt questions in order.</li> </ol>			
	<ul><li>4. Answers written illegibly are likely to be marked zero.</li><li>5. Use of scientific calculators, Log tables, Mollier Charts is allowed.</li></ul>			
	6. Draw neat and labeled diagrams wherever necessary.			
Q.1.	Fill in the blanks.	· g · · · · · · · · · · · · · · · · · ·	(5)	
	1 is a process that makes it sure that the software product is developed the			
	right way.	ight way.		
	a) verification	b) vulnera	bilities	
	c) validation	d) non of t	hese	
	2 testing is an exec	execution based testing technique.		
	a) Static	b) unit		
	c) Dynamic	d) load		
	3 testing checks th	sting checks the system against the requirements.		
	a) Acceptance	b) perform	nance	
	c) unit	d) non of t	hese	
	4. If Test cases have to be rutesting.	ave to be run a small number of times its more likely to perform		
	a) automated	b) manual		
	c) static	d) dynami	c	
	5. A is a virtual env	virtual environment used to verify the correctness or soundness of a		
	design or model.	n or model.		
	a) testing	b) review		
	c) test case	d) testers v	workbench	
Q.2.	State True/False.  1. Automated static analyzers are used to remove software vulnerabilities.		(5)	
			e vulnerabilities.	
	<ol> <li>Integration testing uncover errors associated with interfacing.</li> <li>Alpha testing done at users site.</li> </ol>			
	4. Stress testing involves tes	s testing involves testing in normal operational capacity.		
	5. In a walkthroughs scenario	In a walkthroughs scenarios, dry runs, peer group are used.		
Q.3.	Answer the following. (Solv	Answer the following. (Solve any 5)		
	1. What is buddy check?		,	
	2. Explain Unit testing.			
	3. What is quality?			
	4. What is performance testi	ing?		
	5. Explain alpha testing.	-		
	6. Explain beta testing.			

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### Q. 4. Answer the following in detail. (Solve any 6)

(30)

- 1. Explain in detail about Cyclomatic complexity.
- 2. Differentiate between Automated Testing and Manual Testing.
- 3. What is capability maturity model?
- 4. Sate difference between Quality Control and Quality Assurance.
- 5. Write a note on Inspection.
- 6. Explain Testing Lifecycle.
- 7. What is Integration testing?

### Q. 5. Answer the following in detail. (Solve any 1)

(10)

- 1. Explain in detail. Six Sigma.
- 2. Explain the principles of Software Quality Assurance.

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