CB 60:40

# TILAK MAHARASHTRA VIDYAPEETH, PUNE

### **BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)/**

## SPECIALIZATION IN CYBER SECURITY (CS)

**EXAMINATION: MAY/JUNE - 2024** 

**SEMESTER - III** 

Sub: Software Testing & Quality Assurance/ Software Quality Testing (BCA-543/BCA -345-18/345-20/BCA-CS-345-20)

Date	:03/06/2024	Total Marks: 60	Time: 2.00 pm To 4.30 pm	
	<ol> <li>Bold figures to the righ</li> <li>Candidates are advised</li> <li>Answers written illegib</li> <li>Use of scientific calculation</li> </ol>	All questions are compulsory unless and otherwise stated.  Bold figures to the right of every question are the maximum marks for that question.		
Q.1.	Fill in the blanks.		(5)	
1.	SDLC stands for			
	<ul><li>a) Software development</li><li>c) System development</li></ul>	nt life cycle d) System	re design life cycle design life cycle	
2.		ne main focus is on customer us	_	
	a) Validation Testing	b) Both A	lpha and Beta Testing	
	c) Unit Testing	d) Verifica	ation	
3.	is known as a varian	ce from software product specif	fications.	
	a) Defects	b) Report		
	c) Requirement	d) Review		
4.	testing is the part of n	· ·		
	a) Unit Testing		tion Testing	
	c) System Testing		nance Testing	
5.	led by trained moder			
	a) Walkthrough	b) Inspect		
	c) informal review	d) Technic	cal reviews	
Q.2.	State True/False.		(5)	
1.		In walkthroughs scenarios, dry runs, peer group are used.		
2.	Product Risk affects the quality or performance of the software.			
3.	Boundary value analysis can only be used during white-box testing.			
4.	Black-box testing technique is also called as structure-based technique.			
5.	SQA stands for Software Q	Quality Analysis.		
Q.3.	Answer the following. (Solve any 5) (10)			
1.	What is Boundary value analysis? Give example.			
2.	Define Integration testing.			
3.	What is testers workbench? List testing workbench components.			
4.	Define the term Cyclomatic complexity.			
5.	Define Unit testing.			
6.	Define the term Verification. List different terms involved in Verification.			

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

(30)

- 1. Describe waterfall model with suitable diagram.
- 2. Define Security testing. Explain different security measures.
- 3. Describe capability maturity model.
- 4. Enlist the differences between Manual Testing and Automation Testing.
- 5. Explain the term peer Review.
- 6. What is Test case? Write a test case for login page.
- **7.** Describe Testing lifecycle.

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

**(10)** 

- 1. Define performance testing. Explain types of performance testing.
- 2. Explain in detail testing of web-applications.