TOTAL PAGES: 2

23ITU418N

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2025
(Fourth Semester)

Branch- **INFORMATION TECHNOLOGY**

SOFTWARE ENGINEERING

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	--------- is carried out to verify that the interfaces among different units are working satisfactorily a. Design phase b. Requirement phase c. Integration testing d. Coding phase	K1	CO1
	2	This model is sometimes referred to as "design a little, build a little, test a little, deploy a little" model a. Spiral model b. Waterfall model c. Evolutionary model d. Prototype model	K2	CO1
2	3	The ----- document is the final outcome of the requirements analysis and specification phase a. SRS b. ARS c. SLA d. EULA	K1	CO2
	4	------ is a measure of the functional strength of a module a. Cohesion b. Coupling c. Layering d. Migration	K2	CO2
3	5	The statement 'A is a kind of B' where A and B are two classes, defines------- a. an aggregation b. an inheritance c. an association d. a composition	K1	CO3
	6	In DFD a function is represented using ------ a. a rectangle b. two parallel lines b. a directed arc d. a circle	K2	CO3
4	7	This testing was pioneered at IBM a. Clean room testing b. Class room testing c. Unit testing d. Acceptance testing	K1	CO4
	8	A ------ is an encoding of a test case as a short program a. test suite b. test script c. test model d. test plan	K2	CO4
5	9	Boehm's maintenance cost estimation is made in terms of a quantity called _____ a. the Estimation Cost b. the Annual Maintenance Cost c. the Annual Traffic Cost d. the Annual Change Traffic	K1	CO5
	10	In dynamic Systems Development Method, each iteration follows the _____ rule a. 50 percent b. 80 percent c. 100 percent d. 25 percent	K2	CO5

Cont...

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Explain the working of Iterative waterfall model.	K2	CO1
		(OR)		
	11.b.	Compare of programs vs Software product?		
2	12.a.	Classify the different approaches to software design.	K2	CO2
		(OR)		
	12.b.	Outline the characteristics of a good SRS document.		
3	13.a.	Demonstrate the different views of UML diagrams.	K2	CO3
		(OR)		
	13.b.	Interpret the characteristics of a good user interface.		
4	14.a.	Identify the various coding standards and guidelines.	K3	CO4
		(OR)		
	14.b.	Experiment with the different approaches to black box testing.		
5	15.a.	Explain the model of software reverse engineering.	K3	CO5
		(OR)		
	15.b.	Identify the various Agility principles.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Analyze the working of a spiral model for software development.	K3	CO1
2	17	Identify the characteristics of a good software design.	K3	CO2
3	18	Apply for the steps in developing a DFD model for a system.	K3	CO3
4	19	Experiment with different white box testing approaches.	K3	CO4
5	20	Identify the functionalities of common agile methods.	K3	CO5

Z-Z-Z END