

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BVoc DEGREE EXAMINATION MAY 2026
(Fourth Semester)

Branch- NETWORKING AND MOBILE APPLICATION

SOFTWARE ENGINEERING

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

Question No.	Question	K Level	CO
1	Software engineering is about using _____ methods to make, run, and maintain software. a) Hardware b) Engineering c) Scientific d) Management	K1	CO1
2	A _____ shows the steps and activities needed to make good software. a) Process Model b) Flowchart c) Algorithm d) Test case	K1	CO2
3	The first step in software development where we gather and study what the user wants is called _____. a) Resource Estimation b) Requirements Definition c) Prototype Evaluation d) Prototype Release	K1	CO3
4	A software engineer needs both technical knowledge and _____ skills to work well in a team. a) Communication b) Mathematical c) Typing d) Drawing	K1	CO3
5	Understanding exactly what the customer wants from the software is called _____. a) Requirements Engineering b) Testing c) Coding d) Debugging	K1	CO3
6	When we take the requirements and make diagrams or models to show how the software should work, is called _____. a) Requirements Gathering b) Building the Analysis Model c) Requirements Validation d) Requirements Monitoring	K1	CO2
7	A Software quality is how well a software product meets _____ needs and expectations. a) System b) Customer c) Developer d) Testing	K1	CO4
8	The type of testing where we check the internal code and logic is called _____. a) Black Box Testing b) White Box Testing c) Functional Testing d) Acceptance Testing	K1	CO4
9	The Numbers or measurements that tell us how big, complex, or good a software product is called _____. a) Algorithms b) Models c) Metrics d) Procedures	K1	CO5
10	The process of identifying, analyzing, and preparing for potential problems that could impact a software project is known as _____. a) Risk Management b) Configuration Control c) Quality Assurance d) Code Review	K1	CO5

Cont...

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 × 7 = 35)

Question No.	Question	K Level	CO
11.a.	Explain the seven categories of software application domains with suitable examples.	K2	CO1
	(OR)		
11.b.	Discuss the phases of the Waterfall Model and illustrate how it ensures process flow.		
12.a.	Explain the steps involved in prototype evaluation and summarize its benefits.	K2	CO1
	(OR)		
12.b.	Describe the essential characteristics of software engineering practice.		
13.a.	Identify the effective use cases to be considered during requirements gathering.	K3	CO3
	(OR)		
13.b.	Select the requirement negotiation activities and discuss their importance.		
14.a.	Enumerate Garvin's dimensions of software quality and explain each with examples.	K3	CO4
	(OR)		
14.b.	List and describe the sequential steps involved in software testing.		
15.a.	Identify and list the metrics applicable to a requirement model in software engineering.	K4	CO5
	(OR)		
15.b.	Analyze the concepts of risk projection and identification in a software project.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks

(3 × 10 = 30)

Question No.	Question	K Level	CO
16	Outline the key elements of a software process and explain their significance.	K2	CO1
17	Explain how a software team is framed and describe different software team structures.	K2	CO1
18	Illustrate the various steps involved in requirement engineering with suitable examples.	K3	CO3
19	Explain the need for software quality and analyze how quality can be achieved through testing.	K4	CO4
20	Discuss the steps in risk mitigation, monitoring, and management in software projects.	K4	CO5

Z-Z-Z

END