PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BVoc DEGREE EXAMINATION MAY 2024
(Fourth Semester)

Branch – **NETWORKING & MOBILE APPLICATION**

SOFTWARE ENGINEERING

Time: Three Hours   Maximum: 50 Marks

SECTION-A (5 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks   (5 x 1 = 5)

1. What is known as a collection of programs written to service other programs?
   (i) Application Software
   (ii) System Software
   (iii) Engineering Software
   (iv) Embedded Software

2. Which maintenance detects and corrects product faults before they are discovered by users in the field?
   (i) Adaptive
   (ii) Corrective
   (iii) Perfective
   (iv) Preventive

3. Which elements of the requirements model describe the system from the user's point of view?
   (i) Class based
   (ii) Scenario based
   (iii) Behavioural based
   (iv) Team based

4. Find the quality which has a set of prejudices that will influence the quality.
   (i) Aesthetics
   (ii) Durability
   (iii) Reliability
   (iv) Perception

5. Choose the correct expansion of DRE.
   (i) Defect Removal Efficiency
   (ii) Design Removal Efficiency
   (iii) Defect Removal Effectively
   (iv) Design Removal Effectively

SECTION - B (15 Marks)
Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks   (5 x 3 = 15)

6. a Organize the Software engineering layers.
   OR
   b How do you apply framework activities in a linear process? Explain.

7. a Show the elements of a agile architectural design.
   OR
   b Discuss the characteristics of a successful software engineer.

8. a Narrate the concept of use case design.
   OR
   b What do you think happens when requirement validation uncovers an error? Who is involved in correcting the error? As each element of the requirements model is created, it is examined for Inconsistency.

9. a How Defect prediction model reduce costs and development time of a software? Explain.
   OR
   b Summarize the perform boundary testing with example.

10. a Outline the steps to compute DRE for a project.

OR

b Solve the overall risk exposure in the project.

SECTION -C (30 Marks)
Answer ALL questions
ALL questions carry **EQUAL** Marks   (5 x 6 = 30)

11. a Summarize the essence of software engineering practice.

OR

b Analyze the waterfall model of software development.

12. a What data points are needed to make the go, no-go decision during the assessment of an evolutionary prototype? Explain.

OR

b Identify the project factors to be considered in planning the structure of software engineering teams.

13. a Discuss the tasks of requirements in Software Project.

OR

b Outline the activities of requirements monitoring.

14. a Examine the cost of quality of a project.

OR

b Highlight the test-case design of Equivalence partitioning method.

15. a Point out the steps of a goal-driven software metrics.

OR

b Develop a strategy for reducing turnover to mitigate risk.

Z-Z-Z   END