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(FOR THE CANDIDATES ADMITTED **24PCS1E2**

DURING THE ACADEMIC YEAR 2023 ONLY) **REG.NO. :**

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : NOVEMBER 2024

M.sc C.S **MAXIMUM MARKS: 75**

SEMESTER: I **TIME : 3 HOURS**

24PCS1E2 -SOFTWARE ENGINEERING AND TESTING

SECTION - A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.
MULTIPLE CHOICE QUESTIONS.

1) _____ is a software development activity that is not a part of software processes. **(K1)**
a) Validation b) Specification c) Development d) Dependence

2) Quality planning is the process of developing a quality plan for _____ **(K1)**
a) team b) project c) customers d) project manager

3) Which one of the following is not a software process quality? **(K1)**
a) Visibility b) Timeliness c) Productivity d) Portability

4) The importance of software design can be summarized in a single word which is _____**(K1)**
a) Efficiency b) Accuracy c) Quality d) Complexity

5) What is Cyclomatic complexity? **(K1)**
a) Black box testing b) White box testing c) Yellow box testing d) Green box testing

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

6) Define: "Software". **(K2)**
7) Explain the evolution of software design. **(K2)**
8) What are the tasks in Software Quality Assurance? **(K2)**
9) Relate the advantages of regression testing. **(K2)**
10) Write a note on metrics in testing. **(K2)**

SECTION – B (5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.

11) a) Discover the steps to define a framework activity. **(K3)**
(or)
b) Examine the process of creating a data flow model. **(K3)**

12) a) Determine the basic concept of information hiding. **(K3)**
(or)
b) Evaluate the various elements of data design. **(K3)**

13) a) Summarize the formal approaches to Software Quality Assurance. **(K3)**

(or)

b) Estimate the need of software project estimation. **(K3)**

14) a) Show the major challenges in performance testing. **(K3)**

(or)

b) Distinguish between the white box testing and black box testing. **(K3)**

15) a) Illustrate the design and architecture for automation. **(K3)**

(or)

b) Describe the different types of metrics used in testing. **(K3)**

SECTION-C (5 X 8 = 40 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.

16) a) Elaborate the strategies of requirement modeling. **(K4)**

(or)

b) Analyze the steps to create a control flow model. **(K5)**

17) a) Demonstrate the functional independence in software design. **(K4)**

(or)

b) Assess the basic elements of deployment level design. **(K5)**

18) a) Identify the method of statistical software quality assurance. **(K4)**

(or)

b) Elucidate the empirical estimation models for software projects. **(K5)**

19) a) Examine the different phases of software project. **(K5)**

(or)

b) Compare the functional system testing and non functional system testing. **(K4)**

20) a) Integrate the generic requirements for test tools framework. **(K5)**

(or)

b) Estimate the testing an application using WinRunner tool. **(K4)**

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