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(FOR THE CANDIDATES ADMITTED DURING THE ACADEMIC YEAR 2021 ONLY)

21UBC415

REG.NO. :

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

END-OF-SEMESTER EXAMINATIONS: MAY-2023

COURSE NAME: B.C.A **MAXIMUM MARKS: 70**

SEMESTER: IV **TIME: 3 HOURS**

PART - III

SOFTWARE ENGINEERING

SECTION - A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS. (K1)

1. In a _____ one module of the new information system is activates at a time.
   a) SDLC b) CASE tool c) Phased conversion d) Success factor
2. What does the study of an existing system refer to?
   a) Details of DFD b) Feasibility Study c) System Analysis d) System Planning
3. Which of the following falls under the category of software products?
   a) Firmware, CAD b) Embedded, CAM c) Customized, Generic d) CAD, Embedded
4. Which one of the following activities is not recommended for software processes in software Engineering?
   a) Software Evolution b) Software Verification
   c) Software Testing & Validation d) Software Designing
5. The agile software development model is built based on _____.
   a) Linear Development b) incremental Development
   c) Interactive Development d) Both b & c

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES. (K2)

6. Expand SDLC.
7. Define Software Engineering.
8. Define data modeling.
9. Define Coupling
10. What is white box testing?

SECTION – B (5 X 4 = 20 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) Examine the analysis of software.

(OR)

b) Assess system concepts.

(CONTD…..2)

12. a) What is the difference between software engineering and system engineering?

(OR)

b) Describe software process.

13. a) Compute requirement analysis.

(OR)

b) Interpret Data object

14. a) Discuss the design process and its Principles.

(OR)

b) Describe software procedure

15. a) Describe testing for real time system.

(OR)

b) Explain Black box testing.

SECTION - C (4 X 10 = 40 MARKS)

ANSWER ANY FOUR OUT OF SIX QUESTIONS
(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS
(FROM Qn. No: 17 to 21) (K4 (Or) K5)

16. Classify the characteristics of system.

17. Evaluate the System Development Life Cycle.

18. Construct the RAD model.

19. Outline the Data Flow Diagram and elements of analysis modeling

20. Summarize the Software Architecture.

21. Software evolution.

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ETHICAL PAPER