

S-742

Total Pages : 4

Roll No. -----

BCA-15

Software Engineering

Bachelor of Computer Science (BCA)

5th Semester, Examination 2022(Dec.)

Time: 2 Hours

Max. Marks: 70

Note : This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section – A

(Long Answer – type questions)

Note: Section 'A' contains Five (05) long-answer-type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

[2 x 19 = 38]

P.T.O.

- Q.1. Explain the significance of software engineering. Discuss the advantages of using any software standard for software development.
- Q.2. Discuss the limitations of software process models. Which according to you is the best model of software development? Justify your answer.
- Q.3. What do you understand by software testing? Why is testing important? Why is testing important? Discuss various software techniques.
- Q.4. What are characteristics of Software Requirement Specification (SRS)? Write down SRS for the "ATM deposit and withdrawal system".
- Q.5. What do you mean by cohesion and coupling in context of software design? How are concepts of cohesion and coupling useful in arriving at good software design?

Section – B

(Short-answer-type questions)

Note: Section 'B' contains Eight (08) short-answer-type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only.

[4 x 8 = 32]

- Q.1. What is data dictionary? What is the use of data dictionary in software engineering?
- Q.2. Briefly explain the prototype life cycle model and software specification?
- Q.3. What is the difference between black box and white box testing? Explain.
- Q.4. What are the attributes of good design?
- Q.5. What are the role and quality of System Analyst? Explain.

P.T.O.

- Q.6. Describe the various steps in Software Development Life Cycle?
- Q.7. What is Data Flow Diagram? Explain by giving suitable example.
- Q.8. What are the elements and advantages of Data Dictionary?
