Code : 303304

BCA 3rd Semester Exam., 2020

SOFTWARE ENGINEERING

Time : 3 hours   Full Marks : 60

Instructions :

(i) The marks are indicated in the right-hand margin.

(ii) There are **SEVEN** questions in this paper.

(iii) Attempt **FIVE** questions in all.

(iv) Question Nos. **1** and **2** are compulsory.

1. Answer any *six* questions :   2×6=12

   (a) What is Software Quality Assurance?

   (b) What is Software Testing?

   (c) What are verification and validation?

   (d) What is software crisis?

   (e) Are lines-of-code (LOC) a useful productivity measure?

   (f) Explain data dictionary.

AK-21/393   (Turn Over)

   (g) Describe the characteristics of good SRS.

   (h) Draw a block diagram of software life cycle model.

   (i) What is software maintenance and categories of maintenance?

   (j) What is software risk?

2. Answer any *three* of the following :   4×3=12

   (a) Describe the characteristics of software.

   (b) Explain the software requirement analysis and modeling.

   (c) Narrate the importance of software specification of requirements.

   (d) What are the challenges in software?

   (e) What are test oracles?
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3. What is transform mapping? Explain the design steps of the transform mapping.   12

4. Discuss how the testing models may be used together to test a program schedule.   12

AK-21/393   (Continued)

5. Explain the need for software measures and describe the process metrics and product metrics.   12

6. Compare the incremental model and the spiral model.   12

7. What is process model? Explain waterfall model along with its limitations.   12

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