

Question Paper Code : 3369

BCA (Semester-IV) Examination, 2022

SOFTWARE ENGINEERING

[Paper : BCA-405]

Time : Three Hours [Maximum Marks : 70]

Note : Answer five questions in all. Question No.1 is compulsory. Besides this attempt one question from each unit.

1. Attempt all of the following parts in brief. [3x10=30]

- (a) Define Software Engineering.
- (b) List the goals of Software Engineering.
- (c) Draw and explain Prototype Model.
- (d) What is SRS? Explain various components of SRS.
- (e) What is Software Design Principles? Explain Abstraction and Refinement.
- (f) Explain Cohesion and Coupling.

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- (g) Define Modularity and Information Hiding.
- (h) What is the impact of reusability in Software Development Process?
- (i) What are the steps followed in Testing Process?
- (j) Define a Project. What are the different parameter and specification that are involved in Project?

Unit-I

2. Explain the following : [10]
 - (i) Waterfall model
 - (ii) Spiral model
3. What are the steps involved in RAD Model? [10]

Unit-II

4. What is the purpose of Data flow Diagram? Explain by constructing a context flow diagram Level-0 DFD and Level-1 DFD for Library Management System. [10]

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[Paper

[Maximum

Question no.01 is
Question from

5. How problem analysis is done using UML (Unified Modeling Language) and Data Dictionary? Explain. [10]

Unit-III

6. Differentiate between Top-down and Bottom-up Strategy. Give example. [10]
7. What are the different Coding Standards? Explain Black box and White box testing. [10]

Unit-IV

8. Define Software Project Management. Life cycle. Explain planning and benefits of Program Management. [10]
9. Explain COCOMO Model. Write and explain different types and modes of COCOMO Model. Write limitation of COCOMO Model. [10]

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Question Paper Code : 3367

BCA (Semester-IV) Examination, 2021-22

COMPUTER GRAPHICS AND MULTIMEDIA SYSTEMS

[Paper : BCA-403]

Time : Three Hours]

[Maximum Marks : 70

Note : Answer **five** questions in all. Question no.01 is **compulsory**. Besides this, attempt one question from each unit.

1. Answer all questions in brief : [3×10=30]

- (a) Differentiate between active and passive graphics.
- (b) Distinguish between horizontal retrace and vertical retrace.
- (c) How is clipping performed using Cohen-Sutherland algorithm for a clipping a line?
- (d) What is display processor?
- (e) Why are transformation required?

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