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Question Paper Code: ACS008



INSTITUTE OF AERONAUTICAL ENGINEERING (Autonomous)

B.Tech IV Semester End Examinations (Regular) - May, 2018

Regulation: IARE – R16

SOFTWARE ENGINEERING

Time: 3 Hours

(IT)

Max Marks: 70

Answer ONE Question from each Unit

All Questions Carry Equal Marks

All parts of the question must be answered in one place only

UNIT – I

1. (a) Explain generic process framework with a neat diagram. [7M]
(b) Explain in detail about Function point-based estimation.
Calculate the function point value for a project with the following characteristics:
Number of user inputs=34
Number of user outputs=66
Number of user inquiries=24
Number of Files=8
Number of external interfaces=2
Assume that all complexity adjustment values are average. [7M]
2. (a) Explain about constructive cost model (COCOMO) model in detail. [7M]
(b) What are the advantages and disadvantages of Waterfall model and Spiral model? [7M]

UNIT – II

3. (a) Differentiate between functional and nonfunctional requirements. List out these requirements for a Library system. [7M]
(b) How requirement validation is done in software development? [7M]
4. (a) Identify user and system requirements for an ATM system. [7M]
(b) What are the different types of feasibility studies? [7M]

UNIT – III

5. (a) Define software architecture. Discuss about architectural design and architectural mapping using data flow in design process. [7M]
(b) Explain the importance of traditional components and discuss data centered architectural style with suitable example. [7M]

6. (a) Discuss in detail about the golden rules of user interface design. [7M]
(b) What is cohesion? Differentiate between cohesion and coupling. [7M]

UNIT – IV

7. (a) Develop a complete test strategy for Safe Home Security system. [7M]
(b) What is verification? Discuss in detail about validation testing? [7M]
8. (a) What is black box testing? Is it necessary to perform this? Explain various test activities. [7M]
(b) Discuss in detail about the role of refactoring in software testing. [7M]

UNIT – V

9. (a) Discuss about time line charts with an example. [7M]
(b) What are the basic principles of software project scheduling? [7M]
10. (a) What is the role of project estimation in a software project management? [7M]
(b) Define the relationship between people and effort. [7M]

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