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Question Paper Code: ACS008



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

B.Tech IV Semester End Examinations (Supplementary) - June, 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) What are the advantages and disadvantages of waterfall model and Spiral model. [7M]
(b) Discuss in detail about various software risks. [7M]
2. (a) Discuss the role of size-oriented metrics in software measurement. [7M]
(b) Explain the evolving role of software and its impact on human life. [7M]

UNIT – II

3. (a) Identify various functional and nonfunctional requirements for a safe home security system. [7M]
(b) Explain about structured system analysis with suitable example. [7M]
4. (a) Justify the statement "Software requirement analysis is unquestionably the most communication intensive step in the software engineering process". [7M]
(b) Define data dictionary. Specify the importance of data dictionary with a suitable example. [7M]

UNIT – III

5. (a) Discuss various design concepts related to software design. Explain in detail about designing class based components. [7M]
(b) Discuss various architectural styles and architectural patterns with suitable example. [7M]
6. (a) What are the design methodologies and explain the importance of design in software development life cycle. [7M]
(b) Discuss about component level design and deployment level design elements. [7M]

UNIT – IV

7. (a) Differentiate between white box testing and black box testing. [7M]
(b) Discuss about various debugging strategies with suitable example in brief. [7M]

8. (a) What are the levels of testing? Explain in detail. [7M]
(b) Write a short note on roll of regression testing in software development process. [7M]

UNIT – V

9. (a) Discuss in detail about RMMM scheduling and tracking. [7M]
(b) Write a short note on risk identification. [7M]
10. (a) Explain the advantages and disadvantages of COCOMO and COCOMO II models. [7M]
(b) Discuss about the metrics for small organizations and earned value analysis. [7M]

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