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**Question Paper Code: 31845**

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

Fourth Semester

Information Technology

01UIT405 - OBJECT ORIENTED SOFTWARE ENGINEERING METHODOLOGIES

(Regulation 2013)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions.

PART A - (10 x 2 = 20 Marks)

1. Identify the umbrella activities in software engineering process.
2. Define: software process.
3. What are the outcomes of feasibility study?
4. What is the difference between functional and non functional requirements?
5. Define coupling and state the types of coupling.
6. What are the various modes of abstraction?
7. What is the difference between black box and white box testing?
8. Sketch the debugging process.
9. Define COCOMO II.
10. State the different techniques used for estimation.

PART - B (5 x 16 = 80 Marks)

11. (a) Explain in detail about Perspective process model with neat diagram. (16)

Or

- (b) Explain in detail about COCOMO model. (16)

12. (a) Explain the requirement engineering process in detail. (16)

Or

(b) How does analysis model helps to capture consistent requirements? Discuss several methods for requirement validation. (16)

13. (a) Explain any four architectural styles. (16)

Or

(b) Describe about the Designing class based components with examples. (16)

14. (a) Explain Integration testing with suitable diagrams. (16)

Or

(b) Explain in detail about white box testing. How do you develop test suites? (16)

15. (a) Discuss in detail about Risk management. (16)

Or

(b) Explain how project cost estimation can be performed by using function point based model. (16)

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