

D 71073

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Name.....

Reg. No.....

**FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2014**

(UG—CCSS)

Core Course—Computer Science

**CS 5B 11—PRINCIPLES OF SOFTWARE ENGINEERING**

(2012 Admissions)

Time : Three Hours

Maximum Weightage : 30

**I. Answer all questions :**

- 1 In \_\_\_\_\_ software engineering model, risk analysis is performed in every loop.
- 2 For a program of  $n$  variables, boundary value analysis yields \_\_\_\_\_ number of test cases.
- 3 DFD depicts \_\_\_\_\_.
- 4 The process of transforming a model into a source code is \_\_\_\_\_.
- 5 Coupling and cohesion can be represented using a \_\_\_\_\_.
- 6 The feature of the object oriented paradigm which helps code reuse is \_\_\_\_\_.
- 7 All activities lying on the critical path have slack time equal to \_\_\_\_\_.
- 8 Alpha and Beta testing are forms of \_\_\_\_\_.
- 9 In a structure chart a module is represented by \_\_\_\_\_.
- 10 The relationship between data elements in a module is called \_\_\_\_\_.
- 11 Tools that support different stages of software development life cycle are called \_\_\_\_\_.
- 12 A COCOMO model is \_\_\_\_\_.

(12 × ¼ = 3 weightage)

**II. Answer all questions :**

- 13 What do you mean by requirements elicitation ?
- 14 List the relationships used in class diagrams.
- 15 What are structure charts ?
- 16 What types of models are created during software requirement analysis ?
- 17 What is DFD ?
- 18 What are configuration management activities ?
- 19 What are the major benefits of reviews ?
- 20 What is regression testing ?
- 21 What is quality control ?

(9 × 1 = 9 weightage)

**Turn over**

**Part C**III. Answer any *five* questions :

- 22 Describe the various steps of requirements engineering.
- 23 Describe the various strategies of design.
- 24 What are the different steps in feasibility study ?
- 25 How does object oriented methodology differ from other programming methodologies ?
- 26 Explain any two methods that are used to validate user requirements.
- 27 Explain about activity diagram with an example.
- 28 Explain about unit testing.

(5 × 2 = 10 weight)

IV. Answer any *two* questions :

- 29 Explain COCOMO model in detail.
- 30 Explain about the design methodology for Object Oriented Design.
- 31 What are the different software development life-cycle models ? Explain any two.

(2 × 4 = 8 weight)