ME-131(1600)

(4)

BCA(III)/17/15

6. Using your knowledge of how an ATM is used, develop a set of use-cases that could serve as a basis for understanding the requirements for an ATM system.

5. Develop an object model, including a class hierarchy diagram and an aggregation diagram showing the principle components of a personal computer system and its software.

4. What are the advantages of providing static and dynamic views of the software process as in the Rational Unified Process?

3. (a) What are the three principle types of critical system? Explain the differences between these.

(b) Explain why there is a close relationship between system availability and system security.

1. Choose the correct answer of the following:

(a) What is Software?
(b) Set of compiler instructions and possibly associated document concerned with the operation of data processing
(c) A mathematical formula
(d) None of the above

2. Group - A

(Objective Type Questions)

2 x 10 = 20

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks. Answer from both the Groups as directed.

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Time: 3 hours
Full Marks: 90

None of the above

(Turn over)
2. What are the differences between generic and custom software development?

Answer any four questions of the following (long-answer type questions)

Group - B

(1) DFT (2) GFT

(9) Basic path (10) Orthogonal design

(1) Graph Testing

(2) While box testing, a software testing.

(3) None of the above

(4) Reliable and cost-effective software

(5) Software engineering aims at developing:

(1) None of the above

(2) Accommodating change

(3) Complex projects

(4) Small projects

(5) Waterfall model is not suitable for:

(1) System development life cycle

(2) Software design life cycle

(6) SCUL stands for:

(1) Quick and Fix Model

(2) Prototyping Model

(3) Spiral Model

(4) waterfall Model

(7) Which model is popular for students small projects?

(1) Roger Pressman (2) Victor Bell

(3) Berry Bohnen (4) Cary Littlewood

(5) Spiral Model was developed by:

(1) Sub programs (2) All of the above

(3) Procedures (4) Functions

(8) The term module in the design phase refers:

(1) Process (2) All of the above

(3) People (4) Product

(9) Dependent upon:

(1) Management of software development is

(2) Functionality (3) Reliability

(4) Size

(10) Which of the following is not a product matrix:

(1) Venn of the following is not a product matrix: