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

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

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 system software.

 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.

\*

ME-13/1(600) (4) BCA(III)/17/15

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BCA(III) / 17 / 15

## 2015

Time: 3 hours

Full Marks: 80

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.

Group - A

(Objective Type Questions)

Choose the correct answer of the following:
 2×10 = 20

(a) What is Software?

(i) Set of computer programs, procedures and posssibly associated document concerned with the operation of data processing

(ii) A set of compiler instructions

(iii) A mathematical formula

(iv) None of the above

ME - 13/1

(Turn over)

E-13/1 (2)	<ul><li>(g) SDLC stands for :</li><li>(i) Software design life cycle</li><li>(ii) Software development life cycle</li></ul>	<ul><li>(i) Waterfall Model</li><li>(ii) Spiral Model</li><li>(iii) Prototyping Model</li><li>(iv) Quick and Fix Model</li></ul>	(f) Which model is popular for students small projects?	<ul><li>(e) Spiral Model was developed by:</li><li>(i) Bev Littlewood (ii) Berry Bohem</li><li>(iii) Roger Pressman (iv) Victor Bisli</li></ul>	to: (i) Functions (ii) Pı (iii) Sub programs (iv) Al	(d) The term module in the design phase refers		<ul><li>(iii) Productivity (iv) Functionality</li><li>(c) Management of software development is dependent upon:</li></ul>	<ul><li>(b) Which of the following is not a product matrix?</li><li>(i) Size (ii) Reliability</li></ul>
Contd.	cle life cycle		students small	d by : erry Bohem ictor Bisli	(ii) Procedures (iv) All of the above	gn phase refers	(ii) Product (iv) All of the above	(iv) Functionality ware development is	is not a product  Reliability
ME - 13/1	2. Wh Sof Sof	Ans		0		9			Ð
<i>y</i> /1 (3)	What are the differences between Generic Software Product Development and Custom Software Development.	Group – B (Long-answer Type Questions) Answer any four questions of the following: 15×4 =	(ii) Basic path (ii) (iii) Dataflow (iv)	(iv) None of the above White box testing, a software testing technique is sometimes called:	<ul><li>(i) Reliable software</li><li>(ii) Cost effective software</li><li>(iii) Reliable and cost effective software</li></ul>	<b>=</b>	<ul><li>(iii) Accommodating change</li><li>(iv) None of the above</li></ul>	(ii) Small projects (iii) Complex projects	<ul><li>(iii) System design life cycle</li><li>(iv) System development life cycle</li></ul>
(Turn over)	etween Generic ent and Custom	estions) the following: 15×4 = 60	<ul><li>(ii) Graph Testing</li><li>(iv) Glass box testing</li></ul>	software testing alled:	re octive software	is at developing:	nge		cle lilfe cycle

ME - 13/1