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Total No. of Questions—**5**] [Total No. of Printed Pages—**3**

Seat No.	

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B.C.A. (Sem. III) EXAMINATION, 2017

SOFTWARE ENGINEERING

(2013 PATTERN)

Time : Three Hours **Maximum Marks : 80**

N.B. **:—** (*i*) *All* questions are compulsory.

(*ii*) *All* questions carry equal marks.

1. Attempt the following (any *eight*) : [16]

(1) State advantages of Modular Programming.

(2) Define Unit Testing.

(3) What are the elements of system ?

(4) Explain the mapping cardinality in Relationship.

(5) State any *two* advantages of waterfall model.

(6) Define SRS.

(7) Explain control-feedback concept in a system.

(8) Describe and draw symbols of E-R diagram.

(9) State any *two* types of feasibility study.

(10) Give advantages of Data Dictionary.

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2. Answer the following (any *four*) : [16]

(1) Explain RAD model in detail.

(2) Explain software characteristics in detail.

(3) Explain testing characteristics in detail.

(4) Explain Requirement Anticipation in detail.

(5) Explain structured chart in detail.

(6) Explain any *four* types of system in detail with example.

3. (A) Design an I/P screen layout for employees salary slip. [8]

(B) Draw decision tree and decision table for the following case : A company gives discount on the purchase of goods depending on the sale and duration of payment : [8]

(*a*) 5% discount if order amount > 50,000.

(*b*) 3% discount if order amount between 25,000 and 50,000

(*c*) No discount if order amount < 10,000 or payment is not done within 8 days.

4. Write short notes on (any *four*) : [16]

(1) Black box testing

(2) Pseudo code

(3) Fact finding techniques

(4) Types of cohesion

(5) McCall's quality factors.

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5. Maxwell is a trading company which sells various consumables to its dealers. On receiving enquiry from dealers, the company sends quotation to dealer. The dealer then sends order to company. If stock is available then the order acceptance is sent to dealer and subsequently invoice—cum—delivery challan is sent to dealer : [16]

(1) Identify all the entities.

(2) Draw a context level DFD.

(3) Draw a 1st Level DFD for the above case.

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