



**UA-3763**

**Third Year B. C. A. (Sem. V) Examination**  
**March/April – 2012**  
**Information System Application Development**  
**Paper : 3**  
*(New Course)*

Time : Hours]

[Total Marks : 70

**Instruction :**

નીચે દર્શાવેલ સ્લાઇન સંખ્યાઓ વિગતો ઉત્તરવાળી પર અવક્ષય લખવી. Fillup strictly the details of → signs on your answer book.	
Name of the Examination :	
→ <b>T. Y. B. C. A. (SEM. 5)</b>	
Name of the Subject :	
→ <b>INFORMATION SYSTEM APPLICATION DEVELOPMENT - 3 (NEW COURSE)</b>	
Subject Code No. :	3    7    6    3    → Section No. (1, 2,....) : <b>Nil</b>
Student's Signature	

**1 Answer in brief : (any seven) 14**

- (i) What is data validation ? State objective of data.
- (ii) What is hierarchical code ?
- (iii) What is file conversion ?
- (iv) What is smoke test ?
- (v) Explain error, fault and failure.
- (vi) State difference between logical and physical design.
- (vii) List elements of data dictionary.
- (viii) What is stamp coupling ?

**2 (a) How does the purpose of decision table differ from that of decision tree ? State the components that make up a decision table along with suitable example. 8**

- (b) What is the purpose of software testing ? Explain in brief the different types of software testing. 7

**OR**

**2 (a) What is Documentation ? State importance of system documentation along with the format of system. 8**

- (b) Explain in detail procedure for hardware and software selection. 7

- 3 (a) A Garment wholeseller provides a trade discount of 35 percent if a customer is individual and buys 6 or more pairs of jeans. For orders from shops, 15 percent discount is allowed on order of 6 -19 pairs of jeans, 20 percent on order for 20 - 49 jeans, 30 percent on orders for 50 jeans or more. Design a Decision tree for the above problem. 6
- (b) Write a detail note on System Flowchart and principles of flow charting. 6

OR

- 3 (a) Draw a decision tree for the policy followed by a company in giving discounts to its customers as described in the following : 6
- (i) If the transaction is on credit, and the customer's credit record is good, then accept his order but do not give any discount on credit. If the customer's credit record is not good, then do not accept the order
  - (ii) If the transaction is on cash, and the sale amount is more than Rs. 100, then give a discount of 20%.
  - (iii) If the transaction is on cash, and the sale amount is more than Rs. 50 but less than 100, then give a discount of 10%.
  - (iv) No discount is to be given if the transaction is cash and it is less than Rs. 50, but accept the order.
- (b) Explain with example the following : 6
- (i) Chronological codes
  - (ii) Mnemonic codes
  - (iii) Acronyms codes.

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|----------|---|-----------|
| <b>4</b> | <b>Attempt any three</b>  | <b>15</b> |
| (a)      | Coupling  |           |
| (b)      | VTOC  |           |
| (c)      | Data Capture and steps of Data Capture.   |           |
| (d)      | Cohesion  |           |
| <b>5</b> | <b>(a) Prepare System Flowchart for Library Management System. Also describe requirement analysis.</b>          | <b>7</b>  |
| (b)      | What is Documentation ? State importance along with system documentation format.                                | 5         |
| (c)      | Prepare data dictionary entries for the following data elements :<br>(i) Employee Number<br>(ii) Employee Name. | 2         |