

Day : Tuesday
Date : 19/12/2017

W-2017-4422

Time: 10.00 A.M. TO 1.00 P.M.
Max Marks: 80

N.B:

- 1) Solve ANY FIVE questions from Section-I and ANY TWO questions from Section-II
- 2) Answer to both the SECTION should be written in SEPARATE answer books.
- 3) Figures to the RIGHT indicate full marks.

SECTION-I

- Q.1** Compare and contrast various software development models. (10)
- Q.2** What is checklist? Give the need and content of checklist. (10)
- Q.3** What is structured programming? Explain the tools available for structured programming. (10)
- Q.4** What is Graphical User Interface? Discuss various design issues of GUI. (10)
- Q.5** Describe software configuration management process in brief. (10)
- Q.6** Discuss the need and outline of User manual. (10)
- Q.7** Write short notes on ANY TWO of the following: (10)
- a) Future of CASE tools
 - b) Data Dictionary
 - c) Fourth generation technique

SECTION-II

- Q.8** 'Bhojan' a well-known restaurant wants to start home delivery of food. (15)
Following information has been gathered by system Analyst:
- Customer places order by phone or in person.
 - Reception Clerk fills the order form in duplicate, one is given to kitchen manager and other is retained as an office copy.
 - Kitchen manager prepares KON (Kitchen Order Note) in triplicate sending two to the kitchen and third to Account Department.
 - Kitchen prepares food as per the order, sends it to the reception along with signed copy of KON.
 - Account Department prepares the bill in duplicate, sending one to reception and other is retained as office copy.
 - Delivery boy delivers the food and bill to the customer.
 - Customer pays the bill in cash after receiving food.
 - Cash is submitted to Account Department by delivery boy at the end of day.
- a) Draw First Level DFD.
 - b) Design suitable report layout of daily cash received and daily order booking.
- Q.9** Draw decision tree and decision table for following: (15)
If the order books on or before 29-7 -2016, offer a discount of 10% on the items displayed in the advertisements. Additional 2% discount is offered to appointed dealers. If customer is within Maharashtra state, then no sales tax is charged, otherwise 8 % sales tax is charged on the sale value. Customer from outside Maharashtra state also has to pay 4% Central Sales Tax. For charging excise duty there are two categories. For category A ,10% and category B 5% excise duty has been charged.
- Q.10** For various appointments on various councils and committee, university conducts election. The voters are categorized as Graduate Voters, Teachers, PG Teachers, Principals, HOD's and Management Representatives. A person can be voter in one or more category. The voter can vote at one of the 40 voting centers in 4 districts under jurisdiction of university. A valid voter can file nomination as candidate for one or more council or committee. Various document along with photograph is to submitted while submitting candidature. (15)
- a) Draw E-R Diagram.
 - b) Design any Two table layouts.