Total No. of Questions : 5]

P-1907

SEAT No. :

[Total No. Of Pages : 2

[6034]-303
B.B.A.(C.A.)
CA - 303: SOFTWARE ENGINEERING
(Semester-III) (2019 Pattern)

Time : 2½ Hours] *[Max. Marks : 70*

Instructions to the candidates :

1) *All questions are compulsory.*
2) *Neat diagrams must be drawn wherever necessary.*
3) *Figures to the right indicate full marks.*

Q1) Attempt any Eight of the following: **[8 × 2 = 16]**

a) Define Economical feasibility.

b) What is system Analyst?

c) Define data dictionary.

d) State advantages of Waterfall Model.

e) Define an Entity.

f) Define unit testing.

g) State the principles of software testing?

h) Define open and closed system.

i) What is prototype?

j) What is module?

Q2) Attempt any Four of the following: **[4 × 4 = 16]**

a) Draw first level DFD for Hospital Management System.

b) Explain spiral model in detail.

c) Define software process and software product. Distinguish between them.

d) Discuss different fact finding techniques.

e) Define software maintenance. Explain types of software maintenance.

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Q3) **Attempt any Four of the following:** [4 × 4 = 16]

a) A ABC Foods Pvt. Ltd. Company is offering certain discount on the total amount of purchase. If the purchasing amount is more than 5,000 and the customer is making the payment within 5 days, then company 5% discount on invoice. If the purchase amout is between 3,000 to 5,000 and the customer is making the payment within 5 days, then company offers 3% discount. If the amount is less than 3,000 and customer is making the payment within 5days, then no discount offered and customer has to pay full amount. If customer is not able to pay within 5 days, then no discount is given. Draw decision table.

b) Define module. Explain types of modules.

c) Draw ER-Diagram for "Food order system".

d) What is Decision Table? Need of Decision table.

e) Explain elements of Data flow diagrams.

Q4) **Attempt any Four of the following:** [4 × 4 = 16]

a) Material is issued to the department by considering whether the Material Requisition Note (MRN) is signed or not. It contains valid items or not and it is given within 8 Hours or not. Draw decision Tree for the above case.

b) Differentiate between forward and reverse engineering.

c) What is Data Flow Diagram? Explain its Advantages & Disadvantages.

d) What is SDLC? Describe its phases?

e) Design a screen I/P layout for employee's Profile.

Q5) **Write a short note on any Two of the following:** [2 × 3 = 6]

a) Prototype Model

b) Structured Chart

c) Requirement Gathering.