P6005

[6144]-303

S.Y.B.B.A.

CA - 303 : SOFTWARE ENGINEERING

(2019 Pattern) (Semester - III)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

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

Q1) Attempt any EIGHT of the following:

[8×2=16]

a) What is system Analyst?

b) Define data dictionary.

c) What is SRS?

d) Define an Entity.

e) Define unit testing.

f) State the principles of software testing?

g) Define open and closed system.

h) What is prototype?

i) What is system?

j) What is feasibility study?

Q2) Attempt any FOUR of the following:

[4×4=16]

a) Draw first level DFD for Online Food order system.

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

c) What is SDLC? Describe its phases?

d) Discuss different fact finding techniques.

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

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

    a)   Draw decision table for the following case. A company gives discount on the purchase of goods depending on the sales and duration of payment.

        i)   5% discount if order amount > 50,000.

        ii)   3% discount if order amount between 25,000 and 50,000.

        iii)   No discount if order < 10,000 or payment is not done within 8 days.

    b)   Define module. Explain types of modules.

    c)   Draw ER-Diagram for "Hospital Management 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 & Disadvatages.

    d)   Explain spiral model in detail.

    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)   System Testing.

    b)   McCall's quality factors.

    c)   Requirement Gathering.

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