

Total No. of Questions : 5]

SEAT No. :

P6135

[Total No. of Pages : 2

[5803]-303

S.Y. B.B.A. (C.A.)

CA - 303 : SOFTWARE ENGINEERING

(CBCS 2019 Pattern) (Semester - III)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Neat diagrams must be drawn wherever necessary.*

Q1) Attempt any eight of the following:

[8×2=16]

- a) What is feasibility study?
- b) Define RAD.
- c) What is SRS?
- d) Define an Entity.
- e) What is Pseudocode?
- f) State the principles of software testing?
- g) What is Software Reengineering?
- h) What is requirement elicitation?
- i) What is prototype?
- j) What is system?

Q2) Attempt any four of the following:

[4×4=16]

- a) Explain spiral model in detail.
- b) Differentiate between White Box and Black-Box testing.
- c) What is SDLC? Describe its phases?
- d) Explain fact finding methods in brief.
- e) Define software maintenance. Explain types of software maintenance.

P.T.O.

Q3) Attempt any four of the following.

[4×4=16]

- a) Draw decision tree 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) Explain in detail about coupling and cohesion.
- c) Draw ER-Diagram for “Hotel Management System”.
- d) What is Decision Table? Need of Decision table.
- e) Design a screen layout for employees salary slip.

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 table for the above case.
- b) Draw first level DFD for customer order system.
- c) Differentiate between forward and reverse engineering.
- d) Explain elements of Data flow diagrams?
- e) What is Data Flow Diagram? Explain benefits of DFD, Advantages of DFD, Disadvantages of DFD.

Q5) Write a short note on any two of the following.

[2×3=6]

- a) Feasibility study.
- b) Spiral model.
- c) Software maintenance.

