

Total No. of Questions : 5]

SEAT No. :

PB-1462

[Total No. of Pages : 2

[6226]-303

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

CA-303 : SOFTWARE ENGINEERING

(2019 Pattern) (CBCS) (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.
- 3) Figures to the right indicate full marks.

Q1) Attempt any EIGHT of the following :

[8 × 2 = 16]

- a) What is system?
- b) What are the types of system testing?
- c) Define data dictionary.
- d) What is SRS?
- e) Define an Entity.
- f) What is process?
- g) What are the advantages of Prototyping?
- h) What is feasibility study?
- i) What is Software Maintenance?
- j) What is module?

Q2) Attempt any Four of the following :

[4 × 4 = 16]

- a) Differentiate between forward Engineering and Reverse Engineering.
- b) Explain Functional and non-functional testing.
- c) Explain the various components of system.
- d) Explain in brief about Software Engineering.
- e) Explain fact finding methods in brief.

P.T.O.

Q3) Attempt any Four of the following :

[4 × 4 = 16]

- a) Draw decision table and decision tree for following case: A college has following categories if the employees :
 - i) Teaching staff
 - ii) Non-teaching staff
 - iii) Research staff
 - I) In -case of teaching staff, if staff has experience of 7 or more years, then he or she gets the bonus of Rs. 10000 every year.
 - II) If staff has experience of ≥ 5 and < 7 years then he or she gets the bonus of Rs. 7000 every year.
 - III) Rs. 5000 otherwise.

Non-teaching staff gets the bonus of Rs. 5000 per year, research staff gets the bonus of Rs. 10000 per year.
- b) What is coupling? Give the types of coupling.
- c) Draw ER-Diagram for “Customer order system”.
- d) Explain elements of Data flow diagrams.
- e) Explain Requirement elaboration in detail.

Q4) Attempt any Four of the following :

[4 × 4 = 16]

- a) Draw FDD for employee self-service system.
- b) State various quality factors stated by Mc-Call.
- c) What is SDLC Describe its phases
- d) Explain spiral model in detail with neat diagram.
- e) Design a screen O/P layout for Student’s Profile.

Q5) Write a short note on any Two of the following :

[2 × 3 = 6]

- a) Interview
- b) RAD
- c) Software Maintenance.

