

[6439]-329

T.Y. B.Com.

COMPUTER PROGRAMMING AND APPLICATIONS

366 L : Software Engineering

(2019 Pattern) (Paper - III) (Semester - VI)

Time : 2½ Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicate full marks.*

Q1) A) Fill in the Blanks.

[5]

- i) Software Engineering is the process of designing, developing, testing and maintaining _____.
 - a) hardware
 - b) software
 - c) system
 - d) risk
- ii) _____ Testing is a type of software testing where individual units or components of a software are tested.
 - a) Unit
 - b) White box
 - c) Complete
 - d) Quick
- iii) _____ refers to the degree of interdependence between software modules.
 - a) Verification
 - b) Validation
 - c) Coupling
 - d) Cohesion
- iv) Significant _____ involved with software development is poor quality code.
 - a) importance
 - b) case
 - c) unit
 - d) risk
- v) ERDs represent the data in a _____ manner.
 - a) straight
 - b) graphical
 - c) geographical
 - d) side

P.T.O.

B) Match the following :

[5]

- | | |
|-------------------------|--|
| i) Software engineering | a) Contains metadata |
| ii) Data validation | b) Elements are closely related |
| iii) High cohesion | c) Black box testing |
| iv) Data dictionary | d) Software development |
| v) System Testing | e) Ensure accuracy and quality of data |

Q2) Short Notes (Any 2 out of 4) :

[10]

- a) Entity Relationship Diagrams
- b) Decision Tree and Decision Table
- c) Explain Data validation
- d) Screen Layout designing

Q3) a) What is software engineering? Explain the need of System analysis. [8]

- b) What are Data flow diagrams? Explain the advantages of Data flow diagrams. **[7]**

Q4) a) Explain the concept of Software Testing and its types in detail. [8]

- b) What is data verification? Explain the need for data verification. **[7]**

