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SEAT No. :

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[Total No. of Pages : 2

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T.Y. B.Com.

COMPUTER PROGRAMMING AND APPLICATIONS - III

366L : Software Engineering

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

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 (Any 5 out of 6) : [5]

- i) Entity Relationship diagram shows the relationship of entity sets stored in a _____
 - a) file
 - b) card
 - c) hard copy
 - d) database
- ii) Data dictionary contains _____ i.e. data about the database.
 - a) case study
 - b) design
 - c) metadata
 - d) output
- iii) _____ represents hierarchical structure of modules.
 - a) Logic
 - b) Data flow
 - c) Structure charts
 - d) Cohesion
- iv) The benefits of testing includes _____.
 - a) preventing bugs
 - b) reducing development costs
 - c) improving performance
 - d) all of the above
- v) Software testing tools are the tools which are used for the _____ of software.
 - a) ranking
 - b) promoting
 - c) debugging
 - d) testing

P.T.O.

vi) _____ is an artificial and informal language that helps programmers develop algorithms.

- a) Pseudocode
- b) Visual Basic
- c) Dracle
- d) Windows

B) Match the following : [5]

- i) Decision table
- ii) Data flow diagrams
- iii) Screen design
- iv) ERD
- v) Software testing tool
- a) Selenium
- b) Entity Relationship Diagram
- c) Tabular representation of decision making process
- d) Graphical representation of symbols
- e) Graphic design of user interfaces

Q2) Short Notes (Any 2 out of 4) : [10]

- a) Screen layout designing
- b) Data dictionary
- c) Types of coupling
- d) Fact finding techniques

Q3) a) Explain Decision tree and Decision table. [8]

b) Define software testing explain black box and white box testing. [7]

Q4) a) Explain Data flow diagram in detail. [8]

b) Explain why validation is important in software testing. [7]

