

Total No. of Questions : 4]

SEAT No. :

P3007

[Total No. of Pages : 2

[5801]-629

T.Y. B.Com.

366 - L : COMPUTER PROGRAMMING AND APPLICATIONS - III

Software Engineering

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

Time : 2½ Hours]

[Max. Marks : 50

Instructions to the candidates:

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

Q1) A) Fill in the blanks (Any 5 out of 6): **[5]**

- a) _____ is an artificial and informal language that helps programmers develop algorithms.
- | | |
|---------------|------------------|
| i) Pseudocode | ii) Visual basic |
| iii) Oracle | iv) Windows |
- b) Software testing tools are the tools which are used for the _____ of software.
- | | |
|----------------|---------------|
| i) ranking | ii) promoting |
| iii) debugging | iv) testing |
- c) The benefits of testing includes _____.
- | | |
|----------------------------|--------------------------------|
| i) preventing bugs | ii) reducing development costs |
| iii) improving performance | iv) all of the above |
- d) _____ shows the relationship of entity sets stored in a database.
- | | |
|--------------------|----------------------------------|
| i) Data dictionary | ii) Entity relationship diagrams |
| iii) Flow | iv) Scheme |
- e) _____ testing involves testing a system with no prior knowledge of its internal workings.
- | | |
|-------------------|------------|
| i) Within the box | ii) Outbox |
| iii) Black box | iv) Inbox |
- f) _____ contains metadata i.e. data about the database.
- | | |
|--------------------|---------------------|
| i) case study | ii) decision |
| iii) output design | iv) data dictionary |

P.T.O.

B) Match the following: [5]

- | | |
|--------------------------|---|
| a) Decision table | Selenium |
| b) Data flow diagram | Entity Relationship Diagram |
| c) Screen design | tabular representation of decision making process |
| d) ERD | graphical representation of symbols |
| e) Software testing tool | graphic design of user interfaces |

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

- Types of testing.
- Fact finding techniques.
- Risk Projection.
- Screen Layout designing.

Q3) a) Explain Decision table and data dictionary with examples. [8]

b) Explain data flow diagram in detail. [7]

Q4) a) What is software testing? Why is software testing important. [8]

b) Explain why data validation is important. [7]

