

Total No. of Questions: 8]

SEAT No. :

P1544

[6002]-173

[Total No. of Pages : 2

**S.E. (Information Technology)
SOFTWARE ENGINEERING
(2019 Pattern) (Semester-IV) (214454)**

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Attempt Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume Suitable data if necessary.

Q1) a) Explain design concepts: [6]

- i) Abstraction
- ii) Modularity

b) Write a note on User Interface Design. [6]

c) Explain effective modular design with neat diagram. [6]

OR

Q2) a) Define Usability. Explain different characteristics of usability and ISO characteristics. [9]

b) Explain the mechanisms applied in user interface design for fulfilling the Mandel's three golden rules. [9]

Q3) a) Write a note on effort estimation and scheduling. [9]

b) Enumerate the 4P's of project management. [8]

OR

Q4) a) State and explain the five more important goals of a project. [10]

b) Explain in detail categories of Software Metrics with suitable examples. [7]

P.T.O.

- Q5)** a) Describe the steps of defect management with neat diagram. [6]
b) What are the parameters considered for writing a good defect report? [6]
c) What is the difference between Testing and debugging? [6]

OR

- Q6)** a) What is software quality? Explain software quality dimensions parameters. [9]
b) Enlist any three objectives of testing? Differentiate between Manual and automation testing. [9]

- Q7)** a) Write a short note on: [12]
i) Business process re-engineering
ii) Risk Management
b) Explain in brief test driven development. [5]

OR

- Q8)** a) Explain in detail, the SCM repository features. [9]
b) Write a note on elements of a Configuration Management System. [8]

