

Total No. of Questions : 5]

SEAT No. :

**P5781**

[Total No. of Pages : 2

[6120]-103

**First Year M.C.A. (Management)**

**IT-13 : OBJECT ORIENTED SOFTWARE ENGINEERING**

**(2020 Pattern) (Semester-I)**

*Time : 2½Hours]*

*[Max. Marks : 50*

*Instructions to the candidates:*

- 1) *All question are compulsory.*
- 2) *Draw neat diagrams wherever necessary.*
- 3) *Figures to right indicate full makrs.*

- Q1)** a) Explain Rapid application development model. [5]  
b) Describe feature Driven development in detail. [5]

OR

- a) Explain spiral model. [5]  
b) Describe web engineering process. [5]

- Q2)** a) Prepare SRS as per IEEE format for G20 Summit. management system. [10]  
The overall functioning is as follows.

- i) G20 member registration.
- ii) G20 member invitation.
- ii) Schedule preparation
- iv) Expenses tracking for G20 summit.

OR

- b) Prepare SRS as per IEEE format for a renowned car showroom system for sales and service. [10]

- Q3)** a) Ministry of education is organizing smart India Hackthon for developing innovative culture in the Institute. Draw use-case diagram and class diagram for below tasks. [10]

- i) Team registration
- ii) Selecting problem statement
- iii) Evaluating idea
- iv) Nominating the team.

OR

- b) Draw activity diagram and sequence diagram for registering a billing complaint to MSEB. [10]

**P.T.O.**

- Q4)** a) Design GUI form by using appropriate UI design elements for feedback form of one day Human rights workshop conducted in your Institute. [5]  
b) Draw state transition diagram for an elevator. [5]

OR

- a) Design GUI for households to request a new electricity connection. [5]  
b) Draw collaboration diagram for agriculture farming system. [5]

**Q5)** Write short notes (any two) [2 × 5 = 10]

- a) Inheritance and polymorphism.  
c) Crystal.  
d) Object diagram.

