Total No. of Questions : 5]

SEAT No. :

PB829

[Total No. of Pages : 2

[6204]-13

First Year M.C.A. (Management)

IT 13 - OBJECT ORIENTED SOFTWARE ENGINEERING

(Revised 2020 Pattern) (Semester - I)

Time : 2½ Hours]

[Max. Marks : 50

Instructions to the candidates:

1) *All questions are compulsory.*
2) *Draw neat diagrams whenever necessary.*
3) *Figures to the right indicate full marks.*

Q1) a) Explain spiral model for software system development. **[5]**

b) Explain agile process model - crystal. **[5]**

OR

a) Explain user's roles and their responsibilities in SDLC. **[5]**

b) Explain agile process model - scrum. **[5]**

Q2) a) Write software requirement specification (SRS) as per IEEE template for the scenario of agriculture crop management system. This system having below functionalities as- **[10]**

i) Farmer registration

ii) Crop selection

iii) Season selection

iv) Soil preparation

OR

b) Write a software Requirement specification (SRS) as per IEEE template for textile manufacturing industries Employee management system (EMS) **[10]**

P.T.O.

Q3) a) Draw use case diagram and class diagram for online voting system of Loksabha Election. **[10]**

OR

b) Draw activity diagram and sequence diagram for phonepe transaction processing system. **[10]**

Q4) a) Draw the user interface screen to generate student college ID. **[5]**

b) Draw collaboration diagram for ordering books using mobile App. **[5]**

OR

a) Draw the user interface design for job fair visit gate pass generation. **[5]**

b) Draw state transition diagram for criminal complaint registration. **[5]**

Q5) Write a short note on (any two) **[2×5=10]**

a) Association and links

b) Inheritance and polymorphism

c) DSDM

✪ ✪ ✪