JAG-P3020 Seat No. _____

M. C. A. (Sem. III) (CBCS) Examination

November - 2019

P-3020 : Software Engineering

Time : **2½** Hours] [Total Marks : **70**

Instruction : Write answers of all the questions in main answer sheet.

1 (a) Attempt the following objective questions : **4**

   (1) Full form of RAD.

   (2) Full form of CMMI.

   (3) What is software?

   (4) What is formal method?

   (b) Attempt any one of the following : **2**

   (1) Explain role of software.

   (2) Explain concept of Scrum.

   (c) Attempt any one of the following : **3**

   (1) Briefly explain waterfall model.

   (2) Write a note on Agile modeling.

   (d) Attempt any one of the following : **5**

   (1) Write a note on Incremental process model.

   (2) Explain Spiral model.

2 (a) Attempt the following objective questions : **4**

   (1) What is Elicitation ?

   (2) Full form of FAST.

   (3) What is inception?

   (4) What is specification?

(b) Attempt any one of the following : **2**

    (1) List out different functions of requirement engineering process.

    (2) Explain concept of validation.

(c) Attempt any one of the following: **3**

    (1) Explain quality function deployment.

    (2) Briefly explain requirement management.

(d) Attempt any one of the following : **5**

    (1) Write a note on Elaborating requirements.

    (2) Explain Negotiating requirements.

3 (a) Attempt the following objective questions : **4**

    (1) What is analysis?

    (2) What is domain analysis?

    (3) Full form of DFD

    (4) What is Entity class?

(b) Attempt any one of the following : **2**

    (1) Explain object oriented analysis.

    (2) What is data modeling? Explain it.

(c) Attempt any one of the following : **3**

    (1) What is Behavioral model? Explain it.

    (2) Briefly explain CRC.

(d) Attempt any one of the following : **5**

    (1) Explain flow oriented modeling in detail.

    (2) Write a note on Scenario based modeling.

4 (a) Attempt the following objective questions : **4**

    (1) What is framework model?

    (2) OCP stands for?

    (3) What is internal interface?

    (4) REP stands for?

(b) Attempt any one of the following : 2

    (1) Write a note on information hiding.

    (2) Explain system testing.

(c) Attempt any one of the following : 3

    (1) Briefly explain design model.

    (2) Explain validation testing.

(d) Attempt any one of the following : 5

    (1) Write a note on Pattern based software design.

    (2) Explain Black box testing and White box testing.

5 (a) Attempt the following objective questions 4

    (1) What is association?

    (2) What is inheritance?

    (3) What is link?

    (4) What is constraints on association?

(b) Attempt any one of the following : 2

    (1) What is reflexive association?

    (2) Explain generalization.

(c) Attempt any one of the following : 3

    (1) Explain Qualified association.

    (2) Briefly explain Multiplicity.

(d) Attempt any one of the following : 5

    (1) Write a note on Use case diagram.

    (2) Explain Activity diagram in detail.