



P3020

Seat No. _____

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

November / December - 2018

Software Engineering : 3020

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- 1 (a) Answer the following : 4
- (1) Give full form of CMMI.
 - (2) Give full form of RAD.
 - (3) Waterfall model also known as linear sequential model. True or False ?
 - (4) Scrum is an agile framework for managing knowledge work, with an emphasis on software development. True or False ?
- (b) Answer any **one** in brief : 2
- (1) Define Extreme programming.
 - (2) List different phases of waterfall model.
- (c) Answer any **one** in detail : 3
- (1) Explain Incremental process model.
 - (2) Write a note on spiral model.
- (d) Answer any **one** : 5
- (1) Explain Agile Process Model.
 - (2) Explain component based Development.
- 2 (a) Answer the following : 4
- (1) Give full form of SRS.
 - (2) Give full form of QFD.
 - (3) The process of collecting the software requirement from the client then understand, evaluate and document it is called as _____.
 - (4) In requirement negotiation, a software engineer decides the how will the project be achieved with limited business resources. True or False ?

- (b) Answer any **one** in brief : **2**
- (1) What is Requirement engineering ?
 - (2) What is Requirement elicitation ?
- (c) Answer any **one** in detail : **3**
- (1) Explain requirement validation.
 - (2) What is requirement negotiation ?
- (d) Answer any **one** : **5**
- (1) How to Elicit requirements?
 - (2) Explain Requirement Engineering process.
- 3** (a) Answer the following : **4**
- (1) Give full form of DFD.
 - (2) _____ model describes the interaction in the system.
 - (3) Give full form of CRC.
 - (4) Behavioral modeling shows the dynamic nature of the system. True or False ?
- (b) Answer any **one** in brief : **2**
- (1) What is requirement analysis ?
 - (2) List elements of analysis model.
- (c) Answer any **one** in detail : **3**
- (1) Explain object oriented analysis.
 - (2) Explain scenario based modeling.
- (d) Answer any **one** : **5**
- (1) Explain class based modeling.
 - (2) Explain any one behavioral model.

- 4 (a) Answer the following : 4
- (1) In _____ testing, individual units are combined and tested as a group.
 - (2) In _____ testing, a complete and integrated software is tested.
 - (3) Black box testing also known as behavioral testing. True or False ?
 - (4) White box testing also known as glass box testing. True or False ?
- (b) Answer any **one** in brief : 2
- (1) What is unit testing ?
 - (2) What is validation testing ?
- (c) Answer any **one** in detail : 3
- (1) Explain system testing.
 - (2) Explain design model.
- (d) Answer any **one** : 5
- (1) Explain black box and white box testing.
 - (2) Explain class based component design.
- 5 (a) Answer the following : 4
- (1) Give full form of UML.
 - (2) The use case diagram is a representation of a user's interaction with the system. True or False ?
 - (3) _____ represent static relationships between classes.
 - (4) _____ diagram show the flow from one activity to another activity.
- (b) Answer any **one** in brief : 2
- (1) Define Association.
 - (2) Define Multiplicity.

- (c) Answer any **one** in detail : **3**
- (1) Describe Use Case.
 - (2) Explain Inheritance and Generalization.
- (d) Answer any **one** : **5**
- (1) Explain class diagram with suitable example.
 - (2) Explain activity diagram with suitable example.
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