



RP-003-1015015

Seat No. _____

B. Sc. (Sem. V) (CBCS) Examination

February - 2019

CA - 503 : Software Engineering & Linux

Faculty Code : 003

Subject Code : 1015015

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

[Total Marks : 70

- 1 (A) Attempt following questions : 4
- (1) Write full form of SDLC.
 - (2) Write full form of DFD.
 - (3) _____ Notation Represents Process in DFD.
 - (4) Write full form of UML.
- (B) Answer in brief : (Any **One** out of two) 2
- (1) What is System?
 - (2) Define Use Case Diagram.
- (C) Answer in detail : (Any **One** out of two) 3
- (1) Explain Decision Tree.
 - (2) Explain Role of System Analyst.
- (D) Write a note on : (Any **One** out of two) 5
- (1) Explain SDLC in detail.
 - (2) Explain Data Flow Diagram.
- 2 (A) Attempt following questions : 4
- (1) The spiral model was developed by _____
 - (2) _____ is the first step of SDLC.
 - (3) Full form of ISO _____
 - (4) Full form of QA _____

- (B) Answer in brief : (Any **One** out of two) 2
 (1) What is Prototyping Model?
 (2) What is Quality Assurance?
- (C) Answer in detail : (Any **One** out of two) 3
 (1) Explain Agile Model.
 (2) Explain ISO 9126 Quality Model.
- (D) Write a note on : (Any **One** out of two) 5
 (1) Explain SEI CMM Model.
 (2) Explain Spiral Model.
- 3** (A) Attempt following questions : 4
 (1) Full form of COCOMO _____
 (2) Full form of PERT _____
 (3) Full form of V & V _____
 (4) Full form of SRS _____
- (B) Answer in brief : (Any **One** out of two) 2
 (1) What is Software Fault?
 (2) What is Test Case?
- (C) Answer in detail : (Any **One** out of two) 3
 (1) Explain Software Cost Estimation.
 (2) Explain Black Box Testing Technique.
- (D) Write a note on : (Any **One** out of two) 5
 (1) Explain Software Risk Management.
 (2) Explain SRS.
- 4** (A) Attempt following questions : 4
 (1) _____ Shell is default in every Linux.
 (2) _____ Command is used to display current system date and time.
 (3) _____ Command is used to display present working directory.
 (4) _____ Command is used to remove empty directory.

- (B) Answer in brief : (Any **One** out of two) **2**
- (1) What is Shell?
 - (2) Explain who command.
- (C) Answer in detail : (Any **One** out of two) **3**
- (1) Explain piping and redirection.
 - (2) Explain chmod command.
- (D) Write a note on : (Any **One** out of two) **5**
- (1) Explain Unix Architecture.
 - (2) Explain vi Editor.
- 5** (A) Attempt following questions : **4**
- (1) Full form of KDE _____
 - (2) Full form of GNOME _____
 - (3) _____ Command is used to search a pattern.
 - (4) _____ Command is used to list out all the files and directory.
- (B) Answer in brief : (Any **One** out of two) **2**
- (1) Explain Positional Parameters.
 - (2) Explain While loop in Shell Programming.
- (C) Answer in detail : (Any **One** out of two) **3**
- {1) Explain if...fi statements in shell programming.
 - (2) Explain Case structure with example.
- (D) Write a note on : (Any **One** out of two) **5**
- (1) Write a shell script to enter any number and check that no. is even or odd.
 - (2) Write a shell script to enter any file name and check that file has read permission or not.