

Goa Vidyaprasarak Mandal's
GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE AND ECONOMICS
PONDA - GOA
B.C.A. (SEMESTER- IV) EXAMINATION, JUNE 2022
SOFTWARE ENGINEERING

Duration: 2 hours

Total Marks: 60

Instructions: i) All questions are compulsory.

ii) Figures to the right indicate full marks.

Q1.A) Fill in the blanks: **(5*1=5)**

- A) _____ is a descriptive and diagrammatic representation of the software life cycle.
- B) _____ tools allow you to track the history of a collection of files.
- C) _____ is an iteration in the Scrum development and its usually takes 2-4 weeks.
- D) _____ visualizes the progress within the Sprint towards reaching the Sprint goal.
- E) _____ are bad things done in code, just like bad patterns in the code.

Q1.B) Answer the following: **(5*1=5)**

- A) What is a Feasibility Study?
- B) What are User Stories?
- C) List any 4 characteristics of Agile Software Development.
- D) What is Product Backlog?
- E) What is Black Box testing?

Q2. Answer the following:

- A) Briefly explain the Daily Scrum meeting. **(2)**
- B) Explain the iterative waterfall model with a neat diagram. **(3)**
- C) Explain the principles of the Agile Manifesto. **(5)**

Q3. Answer the following:

- A) What is Pair Programming? What are the benefits of Pair Programming? (2)
- B) What are the advantages and disadvantages of the rapid prototyping model? (3)
- C) Explain Scrum Process Framework with a neat diagram. (5)

Q4. Answer the following:

- A) Write a short note on Release Management. (2)
- B) What is the goal of Testing? Explain the levels of Testing. (3)
- C) What is continuous integration? What are the benefits of continuous integration? (5)

Q5. Answer the following:

- A) What is the purpose of the Git Clone and Git Checkout command? (2)
- B) What are the responsibilities of scrum master and product owner? (3)
- C) What is Performance Testing? Explain the factors governing Performance Testing. (5)

Q6. Answer the following:

- A) What are the advantages of TDD? (2)
- B) Explain the components of Chef Architecture with a neat diagram. (3)
- C) What is refactoring? Explain any 2 refactoring techniques with examples. (5)
