

Goa Vidyaprasarak Mandal's
GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE AND ECONOMICS
FARMAGUDI, PONDA - GOA
B.C.A. CBCS (SEMESTER IV) EXAMINATION, APRIL/MAY 2023
SOFTWARE ENGINEERING

MAXIMUM MARKS – 60

DURATION – 2hrs

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 the popular agile development methodology that uses good practices for rapidly developing high-quality software.
- B) _____ used to count the total number of files in the current working directory.
- C) _____ is an iteration in the Scrum development that usually takes 2-4 weeks.
- D) _____ visualizes the progress within the Sprint towards reaching the Sprint goal.
- E) _____ modern practice is used to handle the entire application from development to testing, deployment and operations.

Q1.B) Answer the following:

(5*1=5)

- A) What is Scrum?
- B) What is the advantage of Distributed VCS over Centralized VCS?
- C) What are User Stories?
- D) List any two characteristics of Agile software development.
- E) What is Kanban?

P.T.O.

Q2. Answer the following:

- A) Compare Verification and Validation. (2)
- B) Explain any three challenges faced in software engineering. (3)
- C) Explain the principles of the Agile Manifesto. (5)

Q3. Answer the following:

- A) Explain the advantages of continuous integration. (2)
- B) What is Pair Programming? Briefly explain the benefits of pair programming. (3)
- C) What is refactoring? Explain any two refactoring techniques with examples. (5)

Q4. Answer the following:

- A) What are the drawbacks of the iterative waterfall model? (2)
- B) Explain the process of Test-driven development. (3)
- C) Explain the factors governing performance testing. (5)

Q5. Answer the following:

- A) Differentiate between Git and Subversion. (2)
- B) What are the responsibilities of the scrum master and product owner? (3)
- C) Explain any four scrum ceremonies used in project management. (5)

Q6. Answer the following:

- A) What are product and sprint backlogs? (2)
- B) Explain any two techniques carried out in Black box testing. (3)
- C) Explain Scrum Process Framework with a neat diagram. (5)
