

Goa Vidyaprasarak Mandal's

GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE AND ECONOMICS PONDA - GOA

B.C.A. (SEMESTER- IV) SUPPLEMENTARY EXAMINATION, JULY 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) Spiral model is one of the most important SDLC models, which provides support for _____.
- B) _____ are bad things done in code, just like bad patterns in the code.
- C) _____ is an iteration in the Scrum development and its usually takes 2-4 weeks.
- D) _____ meetings take place on every working day at the same time in the same place.
- E) _____ command is used to switch between branches in a repository.

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

- A) What is SDLC?
- B) What are User Stories?
- C) What is the Agile Model?
- D) What is Burndown Chart?
- E) What is White Box testing?

Q2. Answer the following:

- A) Briefly explain the Scrum Retrospective meeting. **(2)**
- B) Differentiate between Verification and Validation testing. **(3)**
- C) Explain the principles of the Agile Manifesto. **(5)**

Q3. Answer the following:

- A) Write a short note on Pair Programming. (2)
- B) Explain Spiral Model. (3)
- C) What is refactoring? Explain any 2 refactoring techniques with examples. (5)

Q4. Answer the following:

- A) What is the purpose of Version Control tools? Give an example of Distributed Version Control systems. (2)
- B) What is Reverse Engineering? What are the goals of Reverse Engineering? (3)
- C) What is DevOps? What are the advantages and disadvantages of DevOps? (5)

Q5. Answer the following:

- A) Compare Git and Subversion. (2)
- B) What are the responsibilities of scrum master and product owner? (3)
- C) What is Integration Testing? Explain Top-down and Bottom-up integration with neat diagrams. (5)

Q6. Answer the following:

- A) Briefly explain TDD? (2)
- B) Explain any 2 Release Management tools. (3)
- C) Explain Scrum Process Framework with a neat diagram. (5)
