

Vidya Vikas Mandal's
Shree Damodar College of Commerce & Economics, Margao-Goa
SYBCA Semester IV Semester End Examination April-May 2023
Software Engineering (CAC-113) Truncated Syllabus 2021-22

Duration : 2 Hours

Marks : 60

*Instructions: 1) Figures to the right indicate Full Marks.
2) All Questions are compulsory.*

Q.1.A) Define the following in not more than 20-30 words:

5X1=05

- a. Waterfall Model
- b. Burndown Chart
- c. Prototype
- d. Version Control
- e. Agile Framework

Q.1.B) Match the Following and Rewrite the Matched Pairs :

5X1=05

1. Verification	A. Ensures that the software application does not crash and remains stable with invalid data inputs
2. Black Box Testing	B. Requirements are checked if implemented correctly
3. Waterfall Model	A. Ensures that the software application does not crash and remains stable with valid data inputs
4. Negative Testing	D. Classic Lifecycle Model.
5. Positive Testing	E. Mechanism to check if ,for a given input, the output is correct.

Q.2. Answer the following:

- a) Mention two characteristics of a good software.
- b) Describe the Spiral model and specify one of its advantages.
- c) Explain five types of environments in Build and Release Infrastructure

02

03

05

Q.3. Answer the following:

- a) What is a sprint? 02
- b) Write two user stories for an Online Shopping Application. 03
- c) Illustrate in detail, the Life Cycle of Scrum Framework. 05

Q.4. Answer the following:

- a) What is a Daily Standup meeting in Scrum? 02
- b) Explain the three pairs in Pair Programming. 03
- c) Illustrate the role played by each type user , who is involved in software development using Scrum. 05

Q.5. Answer the following:

- a) State the purpose of code refactoring. 02
- b) Discuss the importance of Pair Programming. 03
- c) Determine the User Story Points for each of the below User Story and justify the same.: 05

(Reference : 1 means Least effort , 3 means medium effort and 5 means most effort required. The below User Stories are for Mobile app for product maintenance.(Product could be an electronic gadget)

(a) As a user, I want to upload an image of an error encountered to find a solution more quickly.

(b) As a user I want to be able to edit my product's working details so that I can maintain the history of usage statistics.

(c) As a user I want to receive notifications and reminders for my product servicing so that I can use the product more efficiently.

Q.6. Answer the following:

- a) List any two levels of testing. 02
- b) Specify two advantages of performing black box testing. 03
- c) Explain the following about the Agile Manifesto : 05
 - 'Customer Collaboration Over Contract Negotiation'
 - 'Responding to Change over Following a Plan'