



Progressive Education Society's
Modern College of Arts, Science & Commerce, Ganeshkhind, Pune – 16
(Autonomous)
End Semester Examination: Oct.2023
Faculty: Commerce

Program: B.B.A.C.A. Code (BBACA 07)

Semester: III

SET: A

Program (Specific): B.B.A.C.A.07

Course Type: CCT-3

Class: S.Y. B.B.A.C.A.

Max.Marks: 70

Name of the Course: Software Engineering

Course Code: 23-BBACA233

Time: 2:30Hrs

Paper: III

Instructions to the candidate:

- 1) **There are 4 sections in the question paper. Write each section on separate page.**
- 2) **All Sections are compulsory.**
- 3) **Figures to the right indicate full marks.**
- 4) **Draw a well labelled diagram wherever necessary.**

SECTION: A

Q.1) Answer the following. (All are compulsory).

10X1=10 Marks

- 1) Software is defined as _____
 - a) set of programs, documentation & configuration of data
 - b) set of programs
 - c) documentation and configuration of data
 - d) a single instruction
- 2) _____ is defined as the process of generating analysis and designing documents.
 - a) Reverse engineering
 - b) Re-engineering
 - c) Software re-engineering
 - d) Science and engineering
- 3) What is a Functional Requirement?
 - a) specifies the tasks the program must complete
 - b) specifies the tasks the program should not complete
 - c) specifies the tasks the program must not work
 - d) specifies the tasks the program must not execute
- 4) What does SDLC stands for?
 - a) System Development Life cycle
 - b) Software Design Life Cycle
 - c) Software Development Life Cycle
 - d) System Design Life Cycle

- 5) _____ is one of the agile manifesto principles?
- a) Customer satisfaction
 - b) No Face-to-face communication within a development team
 - c) No Changes in requirements
 - d) No Customer satisfaction
- 6) _____ validates the system unit by unit.
- a) Unit testing
 - b) Face-to-face testing
 - c) Changes testing
 - d) team testing
- 7) _____ assess the system as a whole(combined) integrating several modules simultaneously.
- a) Integration testing
 - b) Face-to-face testing
 - c) Unit testing
 - d) team testing
- 8) Which of the following is not present in layers of software?
- a) cost
 - b) tools
 - c) Unit
 - d) team
- 9) Which is not the feasibility study?
- a) team feasibility
 - b) Operational feasibility
 - c) Economical feasibility
 - d) Technical feasibility
- 10) _____ feasibility study involves study of cost incurred for software development team, estimated cost of hardware and software.
- a) Economical feasibility
 - b) Operational feasibility
 - c) Team feasibility
 - d) Technical feasibility

SECTION: B

Q2) Answer any 10 of the following questions.

10x2= 20 Marks

- 1) Explain the “planning” phase of the waterfall model.
- 2) Write any 2 steps of software reengineering?
- 3) Write the names of decision table parts.
- 4) Write disadvantages of manual testing.
- 5) Write advantages of Automation testing.
- 6) What is data coupling?
- 7) Explain the fact-finding technique “Record view”
- 8) Write any two principles of agile model.

- 9) What are the types of data dictionaries?
- 10) State the types of Data Flow Diagrams (DFD).
- 11) Explain following elements of a system (a)Input (b)Output.
- 12) Explain the meaning of “validation”.

SECTION: C

Q3) Answer any 4 of the following questions.

4x5= 20 Marks

- 1) Explain characteristics of a system.
- 2) Bookstores get a trade discount of 25%; for orders from libraries and individuals, 5% allowed on orders of 6-19 copies per book title; 10% on orders for 20-49 copies per book title; ;15% on orders for 50 copies or more per book title. Draw the decision tree.
- 3) Draw context level diagrams for the Banking system.
- 4) Write the difference between manual testing and automation testing.
- 5) Explain incremental process model.
- 6) Write a note on reverse engineering?

SECTION:D

Q4) Answer any 4 of the following questions.

4x5= 20 Marks

- 1) Discuss the fact-finding technique “interviews” in detail.
- 2) Explain the spiral model.
- 3) Explain different McCall’s quality factors.
- 4) Explain the types of software maintenance.
- 5) Write a short note on black box testing.
- 6) Draw and describe the symbols used in Data Flow Diagrams (DFD).