

2023

Full Marks - 60

Time - As in the Programme

The figures in the right hand margin indicate marks.

Answer ALL questions.

Group – A

1. Answer all questions : [1 x 8 = 8]
 - (a) Software engineering is a _____ approach.
 - (b) In waterfall model, the phases involved in the software development are organized in _____.
 - (c) An external entity is represented using _____ in DFD.
 - (d) FP stands for _____.
 - (e) _____ types of team structure used in software development.
 - (f) The document produced at the end of the requirement phase is called _____.
 - (g) The weakest coupling that is most desirable is _____.
 - (h) Functional testing is also known as _____.

[P.T.O...]

[2]

Group – B

2. Answer all questions : [1.5 x 8 = 12]
- (a) Write any three characteristics of a software.
 - (b) What are the drawbacks of the spiral model ?
 - (c) What is software re-engineering ?
 - (d) Differentiate validation and verification.
 - (e) Define the DFD.
 - (f) What is staffing and its need ?
 - (g) What is Debugging ?
 - (h) What is code review ?

Group – C

3. Answer any 8 questions : [2 x 8 = 16]
- (a) Define the software process.
 - (b) Define the term feasibility study ?
 - (c) Differentiate between functional and non-functional requirement.
 - (d) What is the difference between Quality Assurance and Quality Control ?
 - (e) Define the decision table ?
 - (f) What is the difference between function oriented and object oriented design ?
 - (g) What is software crisis ?
 - (h) Explain the concept of modularization.
 - (i) What are software metrics ?
 - (j) Define software reliability.

[3]

Group – D

- Answer all questions : [6 x 4 = 24]
- 4.(a) Briefly explain exploratory style of software development with their advantages.
- OR
- (b) Briefly explain the RAD model with advantage and disadvantage.
- 5.(a) Explain the COCOMO model in detail.
- OR
- (b) Discuss the structure of SPMP document.
- 6.(a) What are the purposes of Data flow diagram, Entity Relationship diagram. Give an example of each.
- OR
- (b) Differentiate between cohesion and coupling. Listout the different types of coupling in detail.
- 7.(a) Differentiate between Black box testing and White box testing.
- OR
- (b) What is the need of software maintenance ? State the characterstics of software maintenance.

