

Answer ALL questions

PART A - (8 X 2 = 16 marks)

1. Which is not a software characteristic?
 - a. Software does not wear out
 - b. Software is flexible
 - c. Software is not manufactured
 - d. Software is always correct
2. The relationship of data elements in a module is called
 - a. Coupling
 - b. Modularity
 - c. Cohesion
 - d. Granularity
3. Component level design is concerned with
 - a. Flow oriented analysis
 - b. Class based analysis
 - c. Both of the above
 - d. None of the above
4. _____ is an “umbrella” activity that is applied throughout the software engineering process.
 - a. Debugging
 - b. Testing
 - c. Designing
 - d. Software quality assurance
5. Where will the Function point apply in software Engineering?
6. Mention the purpose of conducting feasibility study.
7. Distinguish fan-in and fan-out.
8. Name the various dimension of software feasibility.

PART B - (4 X16 = 64 marks)

09. (a) How to select the appropriate prototyping approach? Explain any one (16) prototype.

(OR)

- (b) Present the strategies for project scheduling tracking and Risk Management. (16)

10. (a) An automated ticket issuing system sells rail tickets. Users select their destination, and input a credit card and a personal identification number. The rail ticket is issued and their credit card account charged with its cost. When the user presses the start button, a menu display of potential destinations is activated along with a message to the user to select the destination. Once a destination has been selected, users are requested to input a personal identifier. When the credit transaction has been validated, the ticket is issued. **(16)**

(i) Write a set of a nonfunctional requirements setting out its expected reliability and its response time.

(ii) Identify the ambiguities or omissions in the statement and write the system requirements using any of your known language. Any reasonable assumptions could be made.

(OR)

- (b) Illustrate the Architecture design and its styles. **(16)**

11. (a) Is it beneficial to allow users to test the software before finally accepting it? If yes, Why? Explain the testing through which the user tests the software. What are the various levels of testing that could be performed for a particular software? **(16)**

(OR)

- (b) What is unit testing? Why is it important? Explain the unit test considerations and test procedure. **(16)**

12. (a) Apply software configuration management method for tracking and controlling changes in the software. **(16)**

(OR)

- (b) Elaborate the means and practice of monitoring the software engineering processes and methods used in a project to ensure proper quality of the software. **(16)**