

MCA-17

Software Engineering

Master of Computer Application (MCA-11/16/17)

Fifth Semester Examination, 2019 (June)

Time : 3 Hours]

Max. Marks : 80

Note : This paper is of Eighty (80) marks divided into three (03) sections A, B and C. Attempt the questions contained in these sections according to the detailed instructions given therein.

SECTION-A

(Long Answer Type Questions)

Note : Section 'A' contains four (04) long answer type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

(2×19=38)

1. Describe the design principle of software engineering. Also explain the meaning of software danger and its importance in concerned of software engineering.

2. Describe various types of testing in detail.
3. Describe the software development life cycle in detail, also discuss the term software maintenance.
4. Write short note on the following :
 - (a) Prototyping model
 - (b) Water fall model

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains eight (08) short answer type questions of eight (08) marks each. Learners are required to answer any four (04) questions only. (4×8=32)

1. What do you mean by blue print methodology?
2. What quality parameters are used in a software system?
3. What is difference between static and dynamic requirements sepcification?
4. What do you mean by fault tolerance?
5. Explain the term data driven engineering.

6. What are the reasons for software failure?
7. Explain the term stress testing.
8. Describe the term requirement analysis.

SECTION-C
(Objective Type Questions)

Note : Section 'C' contains ten (10) objective type questions of one (01) mark each. All the questions of this section are compulsory. (10×1=10)

Choose the correct answer :

1. Which one of the following is not an application of embedded software product:
 - (a) Keypad control of a security system
 - (b) Pattern recognition game playing
 - (c) Digital function of dashboard display in a car
 - (d) None of the mentioned.

2. Purpose of process is to deliver software
 - (a) in time
 - (b) with acceptable quality
 - (c) that is cost efficient
 - (d) Both (a) and (b).

3. Which of the following activities of a generic process framework provides a feedback report?
 - (a) Communicaiton
 - (b) Planning
 - (c) Modeling and construction
 - (d) Deployment.

4. Choose the correct option in term of issues related to professional reponsibility
 - (a) Confidentiality
 - (b) Intellectual property rights

- (c) Both confidentiality and intellectual property rights
- (d) Managing client relationships.

5. Misuse of other people's computers refer to :

- (a) unauthorized access to computer material
- (b) unauthorized modification of computer material
- (c) dissemination of viruses or other malware
- (d) All of the mentioned

6. Identify the correct statement:

"Software engineers shall

- (a) act in a manner that is in the best interests of his expertise and favour."
- (b) act consistently with the public interest."
- (c) ensure that their products only meet the SRS."
- (d) all of the mentioned.

7. Which one of the following models is not suitable for accomodating any change?
- (a) Build and fix model
 - (b) Prototyping model
 - (c) RAD model
 - (d) Waterfall model
8. Which one of the following is not a phase of prototyping model ?
- (a) Quick design
 - (b) Coding
 - (c) Prototype refinement
 - (d) Engineer product.
9. Which one of the following is not the type of testing ?
- (a) Omega testing
 - (b) Alpha testing
 - (c) Beta testing
 - (d) None of the above.

10. Which model can be selected if user is involved in all the phases of SDLC?

- (a) Waterfall model
 - (b) Prototyping Model
 - (c) RAD Model
 - (d) Both Prototyping Model and RAD Model
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