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2019

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Time : 3 hours

Full Marks : 80

Full Candidates are required to give their answers in
their own words as far as practicable.
their own words as far as practicable.

The questions are of equal value.

Answer any five questions.

Answer any five questions.

1. Describe the importance of Software Engineering. What steps should be taken under the process of developing a Software System ?
2. With a neat diagram, explain SDLC and its different phases.
3. What do you understand by Requirement Specification and Analysis. Explain with suitable example.
4. What are the different software development models ? Which one is more efficient ? Discuss with neat diagram.

(Turn over)

5. What are different software designing approaches? Discuss.
6. Discuss DFD and its components. What is the role played by DFD in development of a Good software?
7. Why testing is needed? What are different types of testing? Discuss.
8. What do you understand by Software Reliability? What is the meaning of quality assurance? Discuss.
9. Write a note on Quality ISO 90000 for Software Engineering.
10. Write short notes on any two of the following:
- (a) Coupling and cohesion
 - (b) Feasibility
 - (c) Structured Design
 - (d) Software Maintenance Phase

2018

Time : 3 hours

Full Marks : 80

Full marks are required to give their answers in
candidates are practicable.
their own words as far as
their value.

The questions are of equal value.

Answer any five questions.

1. What is Software Engineering ? Explain its

- (a) role in development of software.
- (b) What do you mean by software process ?

What is the need of Mature software process

2. Explain SDLC. Describe diagrammatic representation of the SDLC phases. And also explain its different phases use in software development.

3. Describe any two of the following :

- (a) Waterfall Model

(Turn over)

- What is the meaning of Software Testing ? Explain.
- What is the meaning of Software Quality Assurance ? Explain.
- What do you mean by Software Testing ?
- Explain any five importance of software design.
- Explain any five approaches of software design.
- What is the main Guiding principle for a good quality of a design ? How DFD is important for good quality of a design ?
- What is the basic need for software testing ? Who should perform Testing ?
- Differentiate between Black Box Testing and System Testing.
- What is the importance of Function Oriented Software Design for design a software ? Explain.
- What is Structured Design ? Explain with Example.
- Differentiate between Unit Testing and White Box Testing.

What are the main steps during Software

(b) What is the main process with example.
Testing ? Explain with example.

8. What is the main process of Statistical

- (a) What is Quality Assurance ?
- (b) Software Quality Assurance ?
- (c) Software Metrics ?
- (d) What do you mean by Software Metrics ?
- (e) Explain.

9. What is ISO ? Why we need ISO 9000 for
Software Engineering ? Explain its different
types of requirement.

10. Write short notes on any two of the following :

- (a) Quality of a Software
- (b) Software Maintenance Costs
- (c) Debugging
- (d) Requirement Specification and Analysis

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2017

APRIL

Time : 3 hours

Full Marks : 80

Candidates are required to give their answers in
their own words as far as practicable.

The questions are of equal value.

Answer any five questions.

1. Define Software Engineering? What role does it

play in Software Production? Explain using an example.

2. Discuss, in detail, the software life cycle. Use a live example to explain the software life cycle.

3. Describe different design approaches. Give suitable examples of each design approach.

4. What are the components of Data Flow Diagram (DFD)? Draw a DFD for Railway Reservation System.

(Turn over)

EC-3212

5. Compare and contrast between Black Box Testing and white Box Testing. Discuss different types of Black Box Testing with example.
6. What are software metrics ? How reliability and quality of a software related to each other ? Explain.
7. What is Software Quality Assurance ? Discuss software quality (ISO 9000) standard in detail.
8. Write short notes on any two of the following :
- (a) Software Development Practices
 - (b) Software Analysis
 - (c) Structured Design
 - (d) Program Analysis Tools

Open Black Box Testing
is different types of
reliability and
each other ?
Discuss

2016

Time : 3 hour

Full Marks : 80

Candidates are required to give their answers in
their own words as far as practicable.
The questions are of equal value.

Answer any **five** questions.

1. Explain the phases of the waterfall model of software development. What are its drawbacks ?
2. What do you mean by Requirement Specification and Analysis ? What are the characteristics of a good SRS document ?
3. Explain the function oriented and object oriented design approaches. Compare with the two approaches.

4. What is a Data Flow Diagram (DFD) ? Draw a DFD for Library Information System.

(Turn over)

5. Explain various testing techniques. What is System Testing ?

6. What is Software Reliability ? Explain the different reliability metrics.

7. What is Software Maintenance ? Explain the different types of maintenance.

8. Write short notes on any **two** of the following :

(a) Software Life Cycle

(b) Software Maintenance Cost

(c) Software Quality

(d) Debugging



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2015

Time : 3 hours

Full Marks : 80

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The questions are of equal value.

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Answer any five questions.

✓ Answer any five questions of
✓ Compare and contrast various models of
✓ Software Engineering. Give at least one
application where these models are used.

2. (a) Why analysis of a software required before designing it ? Explain using a suitable example.

- (b) Give at least five attributes of a good system analyst.
3. Explain briefly different s/w design approaches.

4. When and why are they used ?
- Draw a DFD for Hospital Management System.
- Make necessary assumptions if required.

(Turn over)

5. What is testing ? When it is required ? Explain different types of testing with example of each.

6. What is Reliability of a Software ? Explain different reliability matrix with examples of each type.

7. When maintenance of a software required ? Why is it important to maintain the software and how it is done ? Explain.

8. Write short notes on any **three** of the following :

- (a) SDLC
- (b) Debugging
- (c) Quality of Software
- (d) Software matrix
- (e) Coupling and Cohesion