

PG-757

**PGDSM-01/
PGDIS-01**

**P.G. DIPLOMA EXAMINATION –
DECEMBER 2019.**

Software quality Management

**FUNDAMENTALS OF INFORMATION
TECHNOLOGY**

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Write a hint about software.
2. What is Memory unit?
3. Explain the Classification of Software.
4. Write a short note on System Software utilities.
5. Networking: Explain.
6. What is LAN Expansion?
7. Internet: Give a brief note.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain: computer architecture.
 9. Write in detail about Software tools.
 10. Give a detailed explanation for Software Engineering.
 11. (a) Explain Network operating system concepts.
(b) Explain Client software
 12. Bridges and gateways: Explain.
 13. Write in detail about Information retrieval on the internet.
 14. Web browsers: Explain.
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**PG DIPLOMA IN SOFTWARE QUALITY
MANAGEMENT EXAMINATION —
DECEMBER, 2019.**

DATA STRUCTURES THROUGH C

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. What is the structure of a C program?
2. Write about C library functions?
3. Write in detail about Character arrays with example.
4. Explain passing arrays with example.
5. Explain the implementation of queue structure using array.
6. List out the qualities of Graphs in C.
7. Explain Linear search.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain in detail about operators.
 9. Explain about compiling and running a simple program with example.
 10. Explain in detail about Single and multi dimensional arrays with example.
 11. Write in detail about the random access in files with example.
 12. Explain the various types of linked lists with examples.
 13. Explain implementation of trees in C.
 14. Explain the Heap sort techniques.
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PGDSM-03

**P.G. DIPLOMA EXAMINATION —
DECEMBER, 2019.**

Software Quality Management

**INTRODUCTION TO DATABASE
MANAGEMENT SYSTEMS**

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. What are the elements of DBMS?
2. Discuss about the network model of DBMS.
3. Explain Multi key file organization.
4. Discuss about the administration of DBMS?
5. What is mean by relational completeness?
6. What are the various normalization techniques?
7. Explain distributed database.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Describe the three level architecture of DBMS.
 9. (a) Explain Hierarchical model of DBMS
(b) Explain Relational model of DBMS
 10. Explain the methods of File organization.
 11. Give a detailed note on the concepts of Relational models.
 12. Explain the Normalization.
 13. Explain the data manipulation statements.
 14. Discuss about the design of distributed database.
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PGDSM-04

**P.G. DIPLOMA EXAMINATION —
DECEMBER, 2019.**

Software Quality Management

INTRODUCTION TO SOFTWARE ENGINEERING

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions

1. Explain the method of prototyping in software models.
2. What is software crisis? How to overcome it?
3. Describe about decomposition techniques.
4. Write short notes on quality control and quality assurance.
5. Explain about ISO 9000 quality standards.
6. Brief about behavioural modelling.
7. Describe art of debugging.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Differentiate spiral and incremental model.
 9. What are project management activities?
 10. Describe in detail about risk management.
 11. What are the steps involved in project scheduling?
 12. Explain the steps for conducting formal technical reviews.
 13. Differentiate between modular and architectural design.
 14. What are the testing strategies available?
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PGDSM-05

**P.G. DIPLOMA EXAMINATION —
DECEMBER, 2019.**

Computer Science

SOFTWARE TESTING

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions

1. Write about challenges involved in software quality assurance.
2. Discuss software quality architecture briefly.
3. Explain the purpose of testing
4. What are the responsibilities of test team leader?
5. Explain any five functional testing techniques.
6. Write about code auditing.
7. How load test is performed?

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain in detail about software quality measurement and metrics.
9. Describe in detail inspection, testing and debugging.
10. Discuss about software testing life cycle with a diagram.
11. Write in detail about v-model testing.
12. What is risk based testing? What are its types?
13. What are the types of automated testing? Explain its advantages and disadvantages.
14. In TMM, discuss human issues and challenges in testing.

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PGDSM-06

**P.G. DIPLOMA EXAMINATION —
DECEMBER, 2019.**

Computer Science

SOFTWARE QUALITY MANAGEMENT

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions

1. Write short notes on quality assurance.
2. Describe cost of quality briefly.
3. Explain in brief about statistical quality assurance.
4. Write short notes on software reliability.
5. Define software process.

6. What impact does software reuse bring in TQM?
7. Write short notes on clean room engineering.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain the steps involved in business process re-engineering.
9. What is six sigma? Explain its core steps.
10. What are the elements of software quality assurance?
11. Discuss in detail about SPICE Maturity model.
12. Write notes on internal audit and assessment.
13. What are the types of reviews?
14. What are the elements for achieving zero defect in TQM? Give its pros and cons.