School of Computer Science

SPOT ASSIGNMENT- CY 2019

NOTE: Part A Contains 3 Questions and will carry 5 Marks each, Part B Contain 1 Question and will carry 10 Marks. Students are requested to write 150 words and should not exceed 2 pages each in Part A, 300 words and should not exceed 4 pages in Part B. Referring Materials.

Post Graduate Diploma in Computer Applications

Course Code: PGDCA-01

Course Title: Computer Fundamentals

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

- **1.** Explain different types of Addressing modes?
- **2.** Discuss about D-Flip-Flop.3.
- **3.** Discuss about RAM with block diagram.

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

1. Explain SIMD array processor organization with diagram.

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Post Graduate Diploma in Computer Applications

Course Code : PGDCA-02

Course Title: Data Structures through 'C'

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

- 1. State and explain the Linear Search Algorithm.
- 2. Write short notes on circular linked list.
- 3. Distinguish between structure and union

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

 Explain and give procedures for inserting and deleting elements from a Binary Search tree.

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Post Graduate Diploma in Computer Applications

Course Code: PGDCA-03

Course Title : Elements of System Analysis and Design

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

- **1.** With an example, discuss sequential file organization.
- 2. Describe the 'System development life cycle'.
- **3.** What are the advantages of multimedia? Explain.

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

1. Explain the organizational impact of MIS.

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SPOT ASSIGNMENT- CY 2019

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Post Graduate Diploma in Computer Applications

Course Code: PGDCA-04

Course Title: Introduction to Data Base Management Systems

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

- 1. Discuss the features of OODBMS.
- **2.** Explain knowledge base management system.
- 3. Discuss about distributed database in detail.

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

 Discuss how query processing is done in a distributed database environment.

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1 Question and will carry 10 Marks. Students are requested to write 150 words
and should not exceed 2 pages each in Part A, 300 words and should not exceed
4 pages in Part B. Referring Materials.

Post Graduate Diploma in Computer Applications

Course Code: PGDCA-05

Course Title: Introduction to Computer Organisation

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

- **1.** With an example discuss floating point representation.
- **2.** Explain Associative memory.
- **3.** List out different types of instruction. Explain data transfer instructions.

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

1. Explain hardware implementation of shift operation.

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SPOT ASSIGNMENT- CY 2019

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1 Question and will carry 10 Marks. Students are requested to write 150 words
and should not exceed 2 pages each in Part A, 300 words and should not exceed
4 pages in Part B. Referring Materials.

Post Graduate Diploma in Computer Applications

Course Code: PGDCA-06

Course Title: Introduction to Software Engineering

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

- 1. What is Specification modeling? Discuss.
- 2. What is Software reliability? Discuss.
- 3. What is Software Configuration management? Discuss.

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

1. What is Quality Assurance? List out the attributes of a quality assured software product.

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SPOT ASSIGNMENT- CY 2019

NOTE: Part A Contains 3 Questions and will carry 5 Marks each, Part B Contain
1 Question and will carry 10 Marks. Students are requested to write 150 words
and should not exceed 2 pages each in Part A, 300 words and should not exceed
4 pages in Part B. Referring Materials.

Post Graduate Diploma in Computer Applications

Course Code: PGDCA-07

Course Title :C++ and Object Oriented Programming

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

- **1.** Describe the importance of destructor.
- 2. With an example discuss the purpose of break, and continue statements in C++.
- **3.** Discuss how exception handling is done in C++.

Part- B- Long Answer Questions

Answer the following question

(1 X 10 = 10 Marks)

1. Explain inline function with example.

School of Computer Science

SPOT ASSIGNMENT- CY 2019

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Post Graduate Diploma in Computer Applications

Course Code: PGDCA-08

Course Title: Theory of Computer Science

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

- **1.** Show that $P \iff PV (P Q)$
- 2. Prove that

$$(FX) (P(X) \land Q(X))$$
 \longrightarrow $(FX) P(X) \land (FX) Q(X)$

3. Define formal definition and languages.

Part- B- Long Answer Questions

Answer the following question

(1 X 10 = 10 Marks)

- 1. a. Explain the Method of Converting NFA to DFA
 - b. Construct a NFA for the regular expression 01* +1.