

**TAMIL NADU OPEN UNIVERSITY**

**School of Computer Science**

**SPOT ASSIGNMENT- Academic year 2018-19**

**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.

**Post Graduate Diploma in Computer Applications**

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**Course Code: PGDCA-01**

**Course Title: Computer Fundamentals**

**(Total Marks=25)**

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**Part- A- Short Answer Questions**

**Answer all questions**

**(3 X 5 = 15 Marks)**

1. Explain the method of Instruction Execution?
2. State the functions of control unit?
3. What are array processors? Explain in detail

**Part- B- Long Answer Question**

**Answer the following question**

**(1 X 10 = 10 Marks)**

1. Explain in detail various addressing modes?

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**Post Graduate Diploma in Computer Applications**

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**Course Code: PGDCA-02**

**Course Title: Data Structures through 'C'**

**(Total Marks=25)**

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**Part- A- Short Answer Questions**

**Answer all questions**

**(3 X 5 = 15 Marks)**

1. Explain pointer with example.
2. Explain the operations on stack.
3. Discuss about arrays and its types.

**Part- B- Long Answer Question**

**Answer the following question**

**(1 X 10 = 10 Marks)**

1. Explain two-way merge sort with an example.

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**Course Code : PGDCA-03**

**Course Title: Elements of System Analysis and Design**

**(Total Marks=25)**

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**Part- A- Short Answer Questions**

**Answer all questions**

**(3 X 5 = 15 Marks)**

1. Explain the role of system analyst?
2. What do you mean by structured system design?
3. Explain the need for documentation?

**Part- B- Long Answer Question**

**Answer the following question**

**(1 X 10 = 10 Marks)**

1. Explain the steps for building MIS

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**Post Graduate Diploma in Computer Applications**

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**Course Code: PGDCA-04**

**Course Title: Introduction to Data Base Management Systems**

**(Total Marks=25)**

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**Part- A- Short Answer Questions**

**Answer all questions**

**(3 X 5 = 15 Marks)**

1. Write the advantages of DBMS.
2. Explain Boyce-Codd normal form.
3. Discuss about database management issues.

**Part- B- Long Answer Question**

**Answer the following question**

**(1 X 10 = 10 Marks)**

1. Explain 1NF, 2NF and 3NF with suitable example.

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**Course Code : PGDCA-05**

**Course Title :Introduction to Computer Organisation**

**(Total Marks=25)**

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**Part- A- Short Answer Questions**

**Answer all questions**

**(3 X 5 = 15 Marks)**

1. Discuss about Full Adder with circuit diagram.
2. Discuss about various addressing modes.
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. What is decoder? Explain 3-to-8 Decoder.

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**Course Code : PGDCA-06**

**Course Title: Introduction to Software Engineering**

**(Total Marks=25)**

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**Part- A- Short Answer Questions**

**Answer all questions**

**(3 X 5 = 15 Marks)**

1. What are the phases in software development?
2. Discuss about product and process.
3. Explain the functions of system testing.

**Part- B- Long Answer Question**

**Answer the following question**

**(1 X 10 = 10 Marks)**

1. Explain spiral and RAD process models.

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**Course Code : PGDCA-07**

**Course Title :C++ and Object Oriented Programming**

**(Total Marks=25)**

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**Part- A- Short Answer Questions**

**Answer all questions**

**(3 X 5 = 15 Marks)**

1. Explain the general structure of OOPS.
2. Explain various looping statement with examples.
3. What is template? Explain its usage.

**Part- B- Long Answer Questions**

**Answer the following question**

**(1 X 10 = 10 Marks)**

1. Explain different types of inheritance.

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**Course Code : PGDCA-08**

**Course Title :Theory of Computer Science**

**(Total Marks=25)**

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**Part- A- Short Answer Questions**

**Answer all questions**

**(3 X 5 = 15 Marks)**

1. Mention the different types of grammer with example.
2. What is equivalence relation? Explain with example.
3. State the properties of regular sets?

**Part- B- Long Answer Questions**

**Answer the following question**

**(1 X 10 = 10 Marks)**

1.
  - a. Explain the method for converting NFA to DFA
  - b. Construct an NFA for the regular expression  $01^* + 0^*$