

**NETTUR TECHNICAL TRAINING FOUNDATION**  
**DIPLOMA IN COMPUTER ENGINEERING & IT INFRASTRUCTURE –CP08**  
**III SEMESTER REGULAR & SUPPLEMENTARY EXAMINATION-JAN 2023**

**Subject: Data structures with C**  
**Subject Code: CP08306T**

**Total Time: 2 Hr.**  
**Total Marks: 50 marks**

**PART B**

**1.0 ANSWER ANY EIGHT OF THE FOLLOWING** **2\*8=16**

- 1.1 What is pointer?
- 1.2 What is stack? What are the operations can be performed on stack?
- 1.3 What is meant by queues?
- 1.4 Explain Linked List
- 1.5 Define Siblings
- 1.6 What is Merge Sort?
- 1.7 What is Linear Search?
- 1.8 What is structure? Give its syntax
- 1.9 List out any four applications of stack
- 1.10 Write the condition for stack full and stack empty

**2.0 ANSWER ANY SIX OF THE FOLLOWING** **3\*6=18**

- 2.1 Write the difference between variable, array and structure in C
- 2.2 Convert the infix expression into corresponding prefix and postfix notations  
 $A + ( B - C * D ) / E - ( F ^ G )$
- 2.3 What are the types of linked list and explain anyone?
- 2.4 List down the various sorting techniques
- 2.5 Explain calloc() with its syntax and example
- 2.6 Draw the neat diagram of different types of data structures
- 2.7 Explain In order, preorder, and Post order
- 2.8 What is call by reference? Explain with an example

**3.0 ANSWER ANY FOUR OF THE FOLLOWING** **4\*4=16**

- 3.1 Explain double pointer and void pointer with its syntax and example
- 3.2 Briefly explain different types of queues
- 3.3 Define i) Left Subtree ii) Parent iii) Descendants iv) Root node
- 3.4 What is searching? Explain different searching techniques
- 3.5 Write the algorithm for converting an infix to postfix
- 3.6 Convert  $A / B * C / ( D - E - F ) + ( G + H )$  into both postfix and prefix

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**III SEMESTER SUPPLEMENTARY EXAMINATION-JAN 2023**

**Subject: Cloud Computing**  
**Subject Code: CP08 03 01**

**Total Time: 2 Hr.**  
**Total Marks: 50 marks**

**PART B**

**1.0 ANSWER ANY EIGHT OF THE FOLLOWING**

**2\*8=16**

- 1.1 What is a client?
- 1.2 Define cloud computing
- 1.3 What is ARPANET?
- 1.4 List out some of the popular cloud service providers.
- 1.5 How ROI could be achieved from the migration model?
- 1.6 List out some of the popular business running in cloud.
- 1.7 What is CAPEX and OPEX?
- 1.8 Define TCO.
- 1.9 Mention some of the migration tools widely used in public cloud.
- 1.10 What is AWS Cloud Watch?

**2.0 ANSWER ANY SIX OF THE FOLLOWING**

**3\*6=18**

- 2.1 What is client - server architecture?
- 2.2 Write about the types of Cloud Service Model with example
- 2.3 Write about the characteristics of SaaS
- 2.4 What are the common risks found in Cloud Computing?
- 2.5 Mention some of the Rack Space products and its features.
- 2.6 What are the challenges in cloud-migration?
- 2.7 What is the need for standards in cloud governance?
- 2.8 What are the benefits of cloud monitoring?

**3.0 ANSWER ANY FOUR OF THE FOLLOWING**

**4\*4=16**

- 3.1 Write down the advantages of Cloud Computing
- 3.2 What are the different types of Cloud deployment models?
- 3.3 Mention the important reasons to migrate business from on-premises to cloud.
- 3.4 Explain 7-step migration model with neat sketch.
- 3.5 Define 6R's. Explain the 6R's in migration strategy.
- 3.6 List out 5 cloud standards and explain the same.

