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[PPU-D-II-(H)-IT-3]

Degree (Part-II) Examination, 2025

(Vocational)

INFORMATION TECHNOLOGY

[Paper : Third]

Paper Code : 400503

Time : Three Hours]

[Maximum Marks : 75

Note : Candidates are required to give their answers in their own words as far as practicable. All the questions are of **equal** value. Answer **five** questions in all, selecting at least one from each group.

GROUP-A

1. Write short notes on the following terms/keywords :

~~(a)~~ Queue

~~(b)~~ Linear Data Structure

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(1)

Turn Over

2. (a) Write a function using array in STACK Operation PUSH,, POP.

(b) What is Binary Tree? Explain with suitable example.

3. (a) Explain double Linked List. Write a function to create double Linked List.

(b) Explain Binary Tree Traversal In-order, Pre-order.

GROUP-B

4. Write short notes on the following terms/keywords :

(a) Encoder

(b) Universal NAND GATE

5. (a) Explain K-Map with suitable example for 3-variable.

(b) Explain Demultiplexer with diagram.

6. (a) Explain Flip-Flops with suitable example.

(b) Explain Canonical Forms sum of products and product of sums.

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(2)

GROUP-C

7. Write short notes on the following terms/keywords :

(15)

(a) Data Block

(b) Kernel

8. (a) Write the basic features of LINUX.

(b) Explain File System in LINUX.

9. (a) Write steps to LINUX system startup and shut-down process.

(b) Explain `ls`, `cp`, `md`, `rm`, `mkdir` commands of LINUX.

THE END