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[PPU-D-II-(H)-IT-4]

Degree (Part-II) Examination, 2025

(Vocational)

INFORMATION TECHNOLOGY

[Paper : Fourth]

Paper Code : 400504

Time : Three Hours]

[Maximum Marks : 75

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

Group-A

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

(a) Class and Object

(b) Pure Virtual Function

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(1)

Turn Over

2. (a) Explain Abstraction with suitable example in C++.
- (b) Write a program using class and object to take name of employee, designation and salary and display them.
3. (a) Explain Constructor and Destructor in C++ with suitable example.
- (b) Explain Runtime Polymorphism with suitable example.

Group-B

4. Write short notes on the following :

- (a) Repeater
- (b) OSI Model

5. (a) Explain the uses of Internet.
- (b) Write difference between Dial-up and Leased Line Connectivity.

- (a) Explain IEEE 802 model with neat diagram.
- (b) What is E-commerce? Write advantages of E-commerce.

Group-C

7. Write short notes on the following :

(a) Virtual Memory

(b) Synchronous and Asynchronous Data Transfer

8. (a) Explain I/O interfaces with diagram.

(b) Explain Isolated versus memory-mapped.

9. (a) Explain I/O processor with a labelled diagram.

(b) Difference between Associative and Virtual Memory.

THE END