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Printed Pages: 4

Degree (Part-II) (Vocational) Examination, 2020

(Honours)

## INFORMATION TECHNOLOGY

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

Time: Three Hours

[Maximum Marks: 75]

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Note: All the questions are of equal value. Answer five questions, selecting at least one from each group.

@GROUP-A

Write short notes on the following terms/keywords:

- (a) Class
- (b) Scope Resolution Operator
- (c) Friend Function
- 2. (a) Explain Polymorphism and data hiding in C++ with suitable examples.

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(1)

[P.T.O.]

- Write a program for class implementation, Which (b) takes an age, name and salary of employee. Use a constructor for initialization of objects. Define a destructor.
- 3. Explain operator overloading with example. (a)
  - (b) Explain the difference between private, protected and public access scope with respect to the class itself, its derived class and its object.

GROUP-B

Write short notes on the following terms/keywords:

- (a) ATM
- Route (b)
- HTTP (c)
- With respect to transmission media, compare (a) Guided and Unguided media.
  - (b) Explain the ISO-OSI Model with the help of a neat labelled diagram and the function of its various layers.

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(2)

- 6. (a) What are the differences between Hub, Switch, and Gateway network devices?
  - (b) What are the different classes of addresses used in IPv4 ? List their ranges in dotted decimal notation.

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## GROUP-C

Write short notes on the following terms/keywords:

- (a) ALU
- (b) Handshaking of the population of the populat
- (c) Page Fable
- 8. (a) What is Instruction Cycle? How are different kinds of instructions interpreted?
  - (b) What are the differences between Synchronous and Asynchronous data transfer techniques?
- (a) Explain the functioning of magnetic disk storage device.

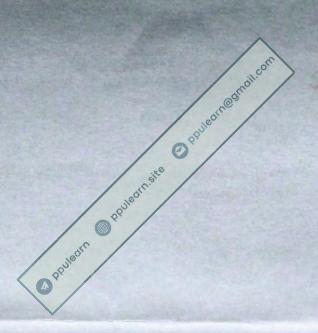
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(3)

[P.T.O.]

(b) The transformation of data from main memory to cache is referred as mapping process. Taking a suitable example, explain direct mapping from main memory to cache.

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(4)