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Degree (Part-III) Examination, 2023

(Vocational)

INFORMATION TECHNOLOGY

| Paper : Fifth |

| PPU-D-III (II)-IT-5 |

(Java Programming, Internet and Web Designing, Introduction to Network Security)

Time : Three Hours]   [Maximum Marks : 100

Note : Candidates are required to give their answer in their own words as far as practicable. Answer **any five** questions, at least two from one group. The questions are of **equal** values.

Group-A

1.   (a)   Write all important characteristics of Java Programming with object oriented features.

(b) Explain wrapper classes in Java with suitable example of wrapper classes.

2. (a) What is Abstraction? Explain types of abstraction in Java with suitable example.

   (b) Write a program in Java to compute factorial of a number using class and object.

3. (a) What is Inheritance? Explain types of inheritance in Java.

   (b) Write a program in Java to take two number and add them using single inheritance.

4. (a) What is Applet? Explain Life Cycle of Applet.

   (b) Write a program using Applet to display message "Hello World".

5. Explain constructor and types of constructor in Java with suitable example.

Group-B

6. (a) Write some importance of internet in Today's world.

   (b) What is HTML? Write some structural tags of HTML to create a web-page.

7. (a) What is E-mail? Write some advantages of E-mail.

    (b) What is FTP? Write note of FTP in use of Internet

8. (a) What is Hit Counter? Write steps to add Hit-counter on the web-page.

    (b) What is ASP? Write structure of ASP program and importance of ASP.

9. (a) What is Encryption? Explain public and private key.

    (b) What is Digital Signature? Write some advantages of Digital Signature.

10. (a) What is Authentication? Write some authentication protocols.

    (b) What is Firewall? Write functions of Firewall.

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