

4005-05

Printed Pages : 4

Degree (Part-III) Examination, 2021

(Vocational)

INFORMATION TECHNOLOGY

[Paper : Fifth]

[PPU-D-III-(II)-IT-5]

Time : Three Hours]

[Maximum Marks : 100

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

Group-A

1. (a) What is Java ? How Java is different from C++, discuss.

(b) What are the features of Java ? Explain briefly ?

2. (a) What is applet ? Discuss the Life Cycle of an applet.

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(1)

[P.T.O.]

(b) Design an applet to print "My First applet program". Also write HTML code to display the applet.

3. Write short notes on any three of the followings :

- (a) JVM
- (b) Multithreading
- (c) Wrapper Class
- (d) Finalize method

4. (a) What is class ? How to define class and create objects in Java ?

(b) Discuss the access modifiers in Java.

5. (a) What is Inheritance ? Discuss any two methods supported by Java ?

(b) What is interface ? How to extend and implement it ?

Group-B

~~6.~~ (a) Discuss FTP and DNS protocols.

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(2)

1 2 3 4 5

- (b) Differentiate between WWW and Internet.
- 7. (a) Create a Web page having a table of 4 columns and 3 rows using HTML.
(b) Explain server Side Scripting and client side scripting with examples.
- 8. (a) What is the role of Encryption in network security ? Explain public key and private key encryption.
(b) What is Firewall ? How it provides protection against cyber threats ?
- 9. (a) What do you mean by cyber attacks ? Explain passive and active attacks.
(b) Explain multi level model of security of network.
- 10. (a) What is E-mail ? Explain about e-mail security and its associated protocols.
(b) What is Authentication in Network Security ? Explain its different types.

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