*Candidates are required to give their answers in their own
words as far as practicable.*
*The figures in the margin indicate full marks.*

## [ PROGRAMMING IN PYTHON ]

### Group - A

Answer any *four* questions :                                    5×4=20

1. Explain the different types of operators in python.

2. How do define 'for' loop in python? What is the basic structure of a python program?

   2+3

3. How to define a user defined function in python? What do you mean by list in python?    3+2

4. Write down the syntactic structure of a class in python. How to create objects and call the method of the class?    3+2

5. How to create a stack using array in python? Display the stack elements using python code? 3+2

6. What is local and global variable and how to declare them in python? 3+2

## Group - B

Answer any *two* questions : 10×2=20

7. What are the key features of Python? What are the benefits of using Python? 5+5

8. What are the common built-in data types in Python? What is self in Python? What is the difference between range & xrange? 4+3+3

9. What are docstrings in Python? What does this mean : *args, **kwargs? And why would we use it? What are negative indexes and why are they used? 2+(4+2)+2

10. What advantages do NumPy arrays offer over (nested) Python lists? What is the process of compilation and linking in python? 5+5

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*OR*

**[ PROGRAMMING IN VB/GAMBAS ]**

**Group - A**

Answer any *four* questions : 5×4=20

1. What is an object, properties and methods in VB?

2. Describe any four features of VB.

3. Explain difference between single document and MDI.

4. What is DLL in VB?

5. Explain combo box control.

6. What is select case? Write its code.

**Group - B**

Answer any *two* questions : 10×2=20

7. Explain different data types in VB.

8. Explain all looping statements in VB with suitable example.

9. Explain pass by value and pass by reference in procedure in VB.

10. Explain common dialog control with its methods and properties with example.

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*OR*

# [ INFORMATION SECURITY AND CYBER LAWS ]

## Group - A

Answer any *four* questions : 5×4=20

1. Write the major needs of Cyber Laws for data protection and privacy?

2. Explain with suitable example about Web hijacking and Web defamation.

3. Distinguish between E-mail spoofing and E-mail bombing.

4. What is Digital Signature Certificate? Define Online Dispute Resolution (ODR) 3+2

5. Write a short note on the essence of digital contracts.

6. Explain with example about denial of service attack.

## Group - B

Answer any *two* questions : 10×2=20

7. Write the punishment for Cyber Fraud, Spoofing and Intellectual Property Crimes under the IT Act. 3+3+4

8. Define the following cyber-crimes : 2×5=10

   Cyber stalking
   Cyber terrorism
   Salami attack
   Online gambling
   Cyber pornography

9. Discuss about the License of Copyright. Write the punishment under the IT Act, 2000.
   5+5

10. What are vulnerabilities? Name any two vulnerabilities.

    Describe the term phishing and pharming with the help of an example. 5+5

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