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Total No. of Pages : 02

Total No. of Questions : 18

**M.Sc. (IT)/MCA/PGDCA (2019 Batch) (Sem.-1)**  
**FUNDAMENTALS OF COMPUTER AND PROGRAMMING IN**  
**PYTHON**

Subject Code : PGCA1902

M.Code : 76972

Time : 3 Hrs.

Max. Marks : 70

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION - B & C. have FOUR questions each.
3. Attempt any FIVE questions from SECTION B & C carrying TEN marks each.
4. Select atleast TWO questions from SECTION - B & C.

**SECTION-A**

**Explain the following :**

1. Software
2. Memory
3. OMR
4. Interface
5. Printer
6. Big Data
7. Variable
8. Lifetime
9. Package
10. Class and Object

### SECTION-B

- Q11. What are the attributes of a class? How they are accessed and edited?
- Q12. Discuss any 3 input and 3 output devices.
- Q13. Write a note on memory hierarchy.
- Q14. Write a note on Big Data, IoT and Data Mining.

### SECTION-C

- Q15. What are different types of loops in python? Explain with help of example.
- Q16. Differentiate between call by value and call by reference in python.
- Q17. What is a module? How it is created and why we need it?
- Q18. What are the operations on files? Explain with help of example.

**NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**