Roll No.

Total No. of Questions: 12]

[Total No. of Printed Pages: 4

(1049)

UG (CBCS) Ist Year Annual Examination 2027

B.A. COMPUTER APPLICATION

(Problem Solving using Computer)

(Core)

(Common with B.Sc. Physical Science)

Paper: COMP101 TH

Time: 3 Hours]

[Maximum Marks: 50

Note: Attempt five questions in all. Part—A is compulsory.

Attempt one question each form Units—I, II, III and IV.

Part-A

(Compulsory Questions)

1 each

Note: - Attempt all questions.

- 1. (i) Define ADDRESS in computer.
 - (ii) Define Seek Time.

CH-627

(1)

Turn Over

- (iii) Define Latency Time.
- (iv) List the advantages of magnetic disk over magnetic tape.
- (v) What do you understand by the term Parity?
- (vi) How many data types are there in Python?
- (vii) Is python a compiled language or interpreted?
- (viii) What do you understand by the Word Tuples?
- (ix) What are the various relational operators used in Python?
- (x) What do you understand by the word atom in Python?

Unit-I

10 each

Note: Attempt any one question.

- 2. Explain the architecture of computer using diagram.
- 3. Discuss the generation of computer with special reference to modern computers.
- 4. Explain memory hierarchy in detail.

CH-627

(2)

Note :- Attempt any one question.

- 5. Write the steps involved in identification of problem.
- Explain the different programming methodologies in detail.
- Draw a flow chart to print all odd positive numbers upto 100.

Unit-III

10 each

Note: - Attempt any one question.

- Write the various features of python and discuss its role in modern programming languages.
- Write a python program to read a positive number and to print its factorial (e.g. 5! = 5*4*3*2*1).
- 10. Write a program to print the product of given 10 numbers.

CH-627

(3)

Tum Over

Unit-IV

Note: - Attempt any one question.

- 11. What is event driven programming and how is it different from functional programming?
- 12. Explain functions in python with example and discuss default arguments.

Total No. of Questions: 9] (2034)

Roll No. of Printed Pages: 4

UG (CBCS) Ist Year Annual Examination 2728

B.A. COMPUTER APPLICATION

(Problem Solving Using Computer)
(Core)

(Common with B.Sc. Physical Science)

Paper: COMP101 TH

Time: 3 Hours]

[Maximum Marks: 50

Note: Attempt five questions in all, selecting one question from each Unit. Question number 1 is compulsory.

All questions carry equal marks.

(Compulsory Question)

- 1. (i) Give *two* examples each of primary and secondary memory.
 - (ii) What is bitwise operator in Python?
 - (iii) What is the full form of the abbreviation UNIVAC?

CH-28

(1)

Turn Over

- (iv) Define class and object.
- (v) How is type casting performed in python?
- (vi) Discuss the syntax of dictionary built-in data type in Python.
- (vii) What are the steps in program design?
- (viii) What is atom in python?
- (ix) What is a regular expression?
- (x) What is algorithm?

Unit-I

- 2. (i) What are characteristics and features of second and fourth generation computer?
 - (ii) Discuss the classification of computers based on size and type.

Or

- 3. (i) Draw block diagram of computer and explain the units of a computer system.
 - (ii) Write brief note on memory hierarchy and its need.

CH-28

Unit-II

- 4. (i) What is structured programming? Discuss the rules of structured programming.
 - (ii) Explain the types of error in programming.

Or

- 5. (i) Draw a flowchart to print all even numbers less than 200.
 - (ii) What is a decision table? Explain.

Unit-III

- 6. (i) Discuss the syntax of for loop. Write a program to calculate the sum of all natural numbers between 25 and 100.
 - (ii) What is the difference between pass and continue statement?

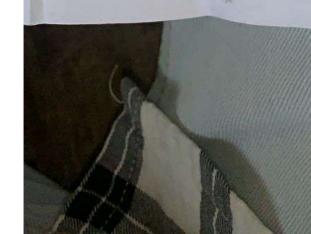
Or

- 7. (i) Write a note on structure of python program.
 - (ii) What is a ternary operator? How is it implemented?

CH-28

(3)

Turn Over



Unit-IV

- 8. (i) What is a list? What are the different operations that can be performed in a list?
 - (ii) Write a program in python to search a string ending with 'you' and starting with 'how'?

Or

- 9. (i) What is inheritance? How child and parent classes are created in python? Explain by suitable code.
 - (ii) Explain built-in () function. When is it used?