

O. P. JINDAL SCHOOL, SAVITRI NAGAR
Half – Yearly Examination (2023 – 2024)

Class: XI
Subject: Computer Science (083)

MM:70
Time: 3 Hr

(Fifteen Minutes Extra will be given for reading the Question Paper.)

General Instructions:

1. The question paper is divided into **5 sections – A, B ,C , D and E.**
2. **Section A**, consists of 18 questions (1-18). Each question carries 1 marks.
3. **Section B**, consists of 07 questions (19-25). Each question carries 2 marks.
4. **Section C**, consists of 05 questions (26-30). Each question carries 3 marks.
5. **Section D**, consists of 03 questions (31-33). Each question carries 5 marks
6. **Section E**, consists of 02 questions (34-35). Each question carries 4 marks
7. All programming questions are to be answered using Python Language only.

| Question NO | SECTION A Each question carries 1 marks | Marks |
|-------------|--|-------|
| 1 | Which of the following is a valid data type in Python? a. Real b. Floating Point c. Decimal d. Letter | 1 |
| 2 | Consider the loop given below .What will be the final value of i after the loop? for i in range(7,4,-2): break a.4 b.5 c.7 d.6 | 1 |
| 3 | Which comments start with # symbol? a.Double line b.Multi-line c.Single line d.All of these | 1 |
| 4 | Which of the following are invalid identifiers? a.Percentage b. In_time c.Sol2 d.2_Num | 1 |
| 5 | Which printer is known as impact printer? a. Laser printer b. Dot Matrix printer c. Ink jet printer d. All of these | 1 |
| 6 | ISCHII can represent _____ bit character. a.5 b. 6 c. 7 d. 8 | 1 |
| 7 | Data items having fixed value are called _____. a. identifiers b. functions keywords d. literals | 1 |
| 8 | Function range(10,5,2) will yield an iterable sequence like a. [] b.[10,8,6] c.[2,5,8] d.[8,5,2] | 1 |

| | | |
|----|--|---|
| 9 | An empty/null statement in python is _____ a.go b.pass c.over d.None | 1 |
| 10 | What will be the result of the expression 'false' or False? a.false b.False c.'false' d.'False' | 1 |
| 11 | Predict the output of the following code: x=3 If x>2 or x<5 and x==6: print("ok") else: print("no output") a. ok b. okok c. no output d. none of above | 1 |
| 12 | In Python, defines a block of statements. a. Block b.loop c.indentation d. {} | 1 |
| 13 | Which of the following is an escape sequence for a newline character? a. \a b. \t c. \n d. \b | 1 |
| 14 | What will be the output of following python statement: - print("foo+bar") a. foo+bar b. foobar c. FooBar d. none of these | 1 |
| 15 | Which of the following is a valid statement in python? a. abc = 1,000,000 b. a b c = 1000 2000 3000 c. a,b,c = 1000, 2000, 3000 d. a b c = 1,000,000 | 1 |
| 16 | What is the output of print("ABC"<"abc") ? a.True b.False c.0 d.Error | 1 |
| | The following questions 17 and 18 are Assertion-Reasoning based, answer the questions by choosing one of the following responses: a. Both A and R are true and R is the correct explanation of A. b. Both A and R are true but R is not the correct explanation of A. c. A is true but R is false. d. A is false but R is true. | |
| 17 | A: Python is not a low-level language. R: It uses English-like words and simple syntax which is very easy to understand to humans. | 1 |
| 18 | A: Python supports multiple execution modes. R: Interactive mode allows the user to enter and execute one statement at a time, while script mode allows the user to run a file containing multiple statements. | 1 |
| | SECTION- B Each question carries 2 marks | |
| 19 | Write the corresponding Python expressions for the following mathematical expressions. | 2 |

| | | |
|-----------|--|-----|
| | Draw the block diagram of a computer system. Briefly write about the functionality of at least 3 components. | |
| | Section-D Each question carries 5 marks | |
| 31 | a) What is an Algorithm & Flowchart? b) Draw a flowchart to find the sum of first 50 natural numbers. | 2+3 |
| 32 | What are tokens in Python. Explain each token with an example. | 5 |
| 33 | Do the following conversions. a) 11101.101 Binary to Decimal b) 9E1B Hexadecimal to Decimal c) 456 Octal to Hexadecimal d) 889 Decimal to Octal e) 4A8C Hexadecimal to Binary | 5 |
| | Section-E Each question carries 4 marks | |
| 34 | What is Operator in Python? List out the types of operators in python. Explain any 4 types of operators in detail with an example. | 4 |
| 35 | Write a program to check (i) Whether a number entered by the user is POSITIVE, NEGATIVE or ZERO. (ii) To check whether a number entered by the user is ODD or EVEN | 4 |