



Date: 27/09/2024
Grade: XI

Term-I Examination(2024-2025)
Informatic Practices(065)

Max.Marks:70
Time: 3 hours

General Instructions:

- This question paper contains 37 questions.
- All questions are compulsory.
- The paper is divided into 5 Sections- A, B, C, D and E.
- Section A consists of 21 questions (1 to 21). Each question carries 1 Mark.
- Section B consists of 7 questions (22 to 28). Each question carries 2 Marks.
- Section C consists of 3 questions (29 to 31). Each question carries 3 Marks.
- Section D consists of 4 questions (32 to 35). Each question carries 4 Marks.
- Section E consists of 2 questions (36 to 37). Each question carries 5 Marks.
- All programming questions are to be answered using Python Language only.
- In case of MCQ, text of the correct answer should also be written.

SECTION A

1.	Which of the following statement is not correct about python keywords? a. Keywords defined by user b. Keywords cannot be used as an identifier c. Keywords convey a special meaning to python interpreter d. Keywords are case-sensitive	1
2.	Which of the following are valid identifiers? a. 1S=12 b. _S=13 c. S1=14 d. @S=15	1
3.	Which of the following statement is used to iterate over a range of values or Sequence? a. if b. if-else c. if-elif-else d. for	1
4.	If step value is not specified for range() function, the default value of step is..... a. 0 b. 1 c. -1 d. None	1
5.	Which of the following character is used to give single-line comments in Python? a. // b. # c. ! d. /*	1

6.	C=10__3 Which operator should be used to get the value of C as 1. a. / b. // c. % d. None of these	1
7.	What will be the output of the following python expression? print(2**3**2) a. 64 b. 256 c. 512 d. 32	1
8.	1 Mega Byte = a. 1024 TB b. 1024 KB c. 1024 GB d. 1024 YB	1
9.	IDLE stands for..... a. Integrated Development and Learning Environment b. Interpreted Development and Learning Environment c. Integral Development and Learning Environment d. None of these	1
10.	Find out the odd one. a. 2+3 b. '2'+3 c. a+b d. 'a'+'b'	1
11.	Which is the following is/are a valid string(s)? a. "Hello" b. 'Hello' c. "Hello' d. {Hello}	1 1
12.	What would the following code do: X,Y=8,3? a. X=8,Y=8 b. X=3,Y=8 c. X=3,Y=3 d. X=8,Y=3	1
13.	To print the value of a variable, python uses: a. Print statement b. Print() function c. print statement d. print() function	1
14.	The Of the CPU controls or supervises the processing taking place. a. ALU b. MU c. CU d. None of these	1

15.	Python uses a/an to convert source code to object code. a. Interpreter b. Compiler c. Combination of interpreter and compiler d. Special virtual engine	1
16.	A computer system consists of both hardware and software. (True/False)	1
17.	A is a diagram that represents a set of instructions. a. Flowchart b. Algorithm c. Program d. Both a and b	1
18.	ENIAC stands for.....	1
19.	In the python statement $x=a+5-b$: a and b are..... a. Operands b. Expression c. Operators d. Equation	1
	Q20 and 211 are ASSERTION AND REASONING based questions. Mark the correct choice as a. Both A and R are true and R is the correct explanation for A b. Both A and R are true and R is not the correct explanation for A c. A is True but R is False d. A is false but R is True	
20.	Assertion: An algorithm is the logical sequence of precise steps that solve a given problem. Reason: An algorithm must have finite number of precise steps, which must be effective and end in a reasonable amount of time	1
21.	Assertion: Python provides these tokens: keywords, identifiers, literals, punctuators, operators and comments. Reason: A token is the smallest individual unit in a program.	1
SECTION B		
22.	Arun is a Python programmer working on a program to find and return the maximum value from the list. The code written below has syntactical errors. Rewrite the correct code and underline the correction made. <pre> a=int(input("enter the firstno")) b=540 if(a=>b) max=a else: max=b print("greatest number is"max) </pre>	2

23.	Write down the advantages of python language.	2
24.	<p>Predict the output for the following code fragments.</p> <p>a. <code>x=12</code> <code>y=14</code> <code>x=x+y</code> <code>y=x-y</code> <code>x=x-y</code> <code>print("the value of x and y are",x,y)</code></p> <p>b. <code>x,y=7,2</code> <code>x,y,x=x+1,y+3,x+10</code> <code>print(x,y)</code></p>	2
25.	<p>Write the full forms of the following:</p> <p>a. ALU b. ZB c. Write two examples of hardware.</p>	2
26.	<p>What is the output produced when this code executes?</p> <pre>a=0 for i in range(4,8): if(i%2==0): a=a+i print(a)</pre>	2
27.	<p>Rewrite the following code in Python after removing all syntax error(s). Underline each correction done in the code.</p> <pre>a=8 a=a+2 if(a=8) print("value of a is eight") else: print("the value of a is not eight")</pre>	2
28.	What is the difference between interpreter and compiler?	2
SECTION C		
29.	Write an algorithm for add two numbers and check the sum of these numbers is greater than 100 or not and also draw the flow chart for the same.	3
30.	Write a python program to print the multiplication table of a number read from user.	3
31.	<p>What is the output of the following code snippet?</p> <p>a. <code>country="INDIA"</code> <code>for i in country:</code> <code>print(i)</code></p> <p>b. <code>for i in range (10,6,-2):</code> <code>print(i*2)</code></p> <p>c. <code>for x in range (10,20):</code> <code>if (x%2==0):</code> <code>print(x)</code></p>	3

SECTION D

32.	Write a program to find and print the grade of a student when the user inputs their percentage. Grades are allocated as given in the table below: <table><thead><tr><th>Percentage of Marks</th><th>Grade</th></tr></thead><tbody><tr><td>Above 90%</td><td>A</td></tr><tr><td>80% to 89%</td><td>B</td></tr><tr><td>70% to 79%</td><td>C</td></tr><tr><td>60% to 69%</td><td>D</td></tr><tr><td>Below 60%</td><td>E</td></tr></tbody></table>	Percentage of Marks	Grade	Above 90%	A	80% to 89%	B	70% to 79%	C	60% to 69%	D	Below 60%	E	4
Percentage of Marks	Grade													
Above 90%	A													
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33.	Write a python program to accept three numbers and print largest of the three. Make use of if, else and elif.	4												
34.	Explain the use of operators and how many operators in python with an example program. (Use any four or more operators)	4												
35.	Rewrite the following code in Python after removing all syntax error(s). Underline each correction done in the code. a. N1=10 2N=13 N1=+5 if(N1==15) print(N1"is equal to 15") b. i==2 While(i<=10) print(i,end="") i++	4												

SECTION E

36.	Explain computer organization with the help of a block diagram.	5
37.	Write a program to find the area of a triangle($\frac{1}{2} bh$), square(a^2) and rectangle(lb).	5