



Date: 01/10/2024  
Grade: XI

Term-I Examination(2024-2025)  
Computer Science(083)

Max.Marks:70  
Time: 3 hours

General Instructions:

- This question paper contains 37 questions.
- All questions are compulsory. However, internal choices have been provided in some questions. Attempt only one of the choices in such questions
- 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 relations result in false? a. $C=a+b$ b. $C+=a$ c. $a+b=C$ d. $C,D=a,b$	1
2.	A word used in a high-level language, which has a special meaning for the system interpreter is called the:  a. Literal b. Identifier c. Keyword d. None of these	1
3.	What will be the return datatype of(m/n) where m and n are two integers.  a. int b. float c. int or float d. None of these	1
4.	Boolean type data is represented as: a. Yes or No b. True or False c. 1 or 0 d. 'True' or 'False'	1
5.	What will be output of the following code? <b>A=2+2/2</b> a. 2.0	1

	b. 3.0 c. 4 .0 d. 1 .0	
6.	If the value <b>of a=20 and b=20</b> , then <code>a+=b</code> will assign .....to the variables a. 40 b. 30 c. 20 d. 10	1
7.	If <b>x=5;y=10;z=11 and c=x*y+z/2</b> , then what will be the value stored in c? a. 55.0 b. 55.5 c. 55 d. 50	1
8.	A compound statement can be stated as: a. <code>P=int(input('enter a number'))</code> <code>Q=int(input(' enter the second number'))</code> b. <code>M=++a</code> <code>N=--b</code> c. <code>if(a&gt;b):</code> <code>    a++</code> <code>    b--</code> d. None of these	1
9.	<b>if a&lt;b:</b> <code>    c=a</code> <b>else:</b> <code>    c=b</code> It means:  a. c stores the smallest value between a and b b. c stores the highest value between a and b c. c stores the values of both a and b d. c does not store any value	1
10.	A program snippet using nested loop construct is given below:  <b>s=10</b> <b>for i in range(1,4):</b> <code>    for j in range(1,i):</code> <code>        s+=j</code> <b>print(s)</b>	1

	<p>What will be the final value of 's' when the above program snippet is executed?</p> <p>a. 11 b. 12 c. 13 d. 14</p>	
11.	<p>Given a nested loop construct:</p> <pre><b>for i in range(1,4):</b>   <b>for j in range(1,i):</b>     .....     <b>Statements</b>     .....   <b>print()</b></pre> <p>How many times the nested loop may iterate?</p> <p>a. 2 b. 3 c. 4 d. 1</p>	1
12.	<p>The statement <b>print("Python"*2,"Language")</b> returns.....</p> <p>a. Python Python Language b. Python 2 Language c. PythonPythonLanguage d. PythonPython Language</p>	1
13.	<p>A set of instructions given to a computer is called.....</p> <p>a. Program b. ALU c. CU d. Storage</p>	1
14.	<p>Computers are immune to tiredness. (T/F)</p>	1
15.	<p>The precise step by step instructions given to perform a task are called.....</p> <p>a. Flowchart b. Algorithm c. SDLC d. All of these</p>	1
16.	<p>..... means removing errors that occur during a dry run of the program.</p> <p>a. Error correction b. Exception c. Compilation d. Debugging</p>	1
17.	<p>Which of the following is not a valid identifier?</p> <p>a. Mybook b. _book</p>	1

	c. @book d. Book23	
18.	The.....operator is used to find out if division of two numbers yields any remainder. a. / b. + c. % d. //	1
19.	Python allows repetition of a set of statements using ..... construct. a. Looping b. Decision c. Condition d. Sequence	1
	<b>Q20 and 21 are ASSERTION AND REASONING based questions. Mark the correct choice as</b> 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.	<b>Assertion:</b> Secondary storage devices, such as hard drives and SSDs, are essential components of a computer system.  <b>Reason:</b> They provide long-term data storage, ensuring that information is retained even when the computer is powered off, unlike primary memory (RAM), which is volatile.	1
21.	<b>Assertion:</b> Indentation is a very important aspect to build the structure of a program. <b>Reason:</b> Indentation refers to the white spaces and tabs that are used at the beginning of a statement to form a block of code. Multiple statements with the same indent are called a block of code.	1
<b>SECTION B</b>		
22.	Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code: <b>30=To</b> <b>for k in range(0,To)</b> <b>IF k%4==0:</b> <b>print(k*4)</b> <b>Else:</b> <b>print(k+3)</b>	2
23.	Write the output of the following code: <b>x='abcdef'</b> <b>i='e'</b> <b>while i in x:</b> <b>print(i,end="")</b> <b>break</b>	2

24.	Give the data type of the following variables: a. n='Reva' b. t=13+6j c. val=[100,98,99,'ajit'] d. dt={'jan','june',5,6}	2
25.	Write a program to display the string "welcome" n times, where n will be entered by the user.	2
26.	Draw the symbols for the following. a. Processing b. Start/Stop c. Input/Output d. Decision making	2
27.	Write a program to swap two numbers.	2
28.	Write a program for the given output (Should read all the required data) The output will be: Name: Ankith Age: 19 Course: BCA	2
<b>SECTION C</b>		
29.	What will be the output of the following statements when inputs are a=30, b=20, c=30? a. print(a<b) b. print(b<=c) c. print(a<b<=c)	3
30.	Write a program to print factorial of a number entered by the user.	3
31.	Write an algorithm for finding the largest among two number. Draw a flow chart for the above program.	3
<b>SECTION D</b>		
32.	Write a program to develop the following patterns. a. 11111 2222 333 44 5 b. * ** *** **** *****	4
33.	Predict the output of the following. a. m=60 if m>40 or m>100: print("Iam in if") else: print("Iam in else") b. m=15 n=1 while m>n: m=m-2 n=n+2 print(m,end="")	2+2

34.	Write a program to find whether a person is senior citizen or not?	4
35.	Explain the components of a computer system with a neat diagram.	4
<b>SECTION E</b>		
36.	Read a number and check whether the number is greater than 10,100,500 using nested if concept and print appropriate message.	5
37.	a. Write a program to check whether an entered character is vowel or not? b. Write a program to print the even numbers from 55 to 100 using while or for.	3+2