

SuperNova -Learnpython4cbse

Class: XI

Computer Science (083)

Sample Paper - 5 (Theory)

Time allowed: 3 Hours

Maximum Marks: 70

General Instructions:

Please check this question paper which contains 35 questions.

- The paper is divided into 5 Sections- A, B, C, D and E.
- Section A, consists of 18 questions (1 to 18). Each question carries 1 Mark.
- Section B, consists of 7 questions (19 to 25). Each question carries 2 Marks.
- Section C, consists of 5 questions (26 to 30). Each question carries 3 Marks.
- Section D, consists of 2 questions (31 to 32). Each question carries 4 Marks.
- Section E, consists of 3 questions (33 to 35). Each question carries 5 Marks.
- All programming questions are to be answered using Python Language only.

Q No.	Section-A (18 Marks)	Marks
1	Python, a computer programming language is: a. Low-level language b. Machine level language c. Assembly level language d. High-level language	1
2	The default value of sep in print() is: a. Tab b. Space c. Percentage d. Newline	1
3	Which of the following is categorized as digital footprint? a. IP Address b. Email Address c. Both of the above d. None of the above	1

4	<p>What shape represents a decision in a flow chart?</p> <p>a. Arrow</p> <p>b. Oval</p> <p>c. Diamond</p> <p>d. Rectangle</p>	1
5	<p>State true or false.</p> <p>"A single element tuple is defined as t1=(5)."</p>	1
6	<p>What is the primary function of the Operating System?</p> <p>a. Managing hardware resources and providing user interface</p> <p>b. Controlling User's Actions</p> <p>c. Storing Data</p> <p>d. Browsing the Internet</p>	1
7	<p>Which of the following is an example of cyber crime?</p> <p>a. Ethical Hacking</p> <p>b. Sharing Files Over Internet</p> <p>c. Identity Theft</p> <p>d. Browsing Social Media</p>	1
8	<p>State true or false:</p> <p>A=4 and 4=A are interchangeably used in Python.</p>	1
9	<p>Which of the following is not a memory unit?</p> <p>a. RAM</p> <p>b. ROM</p> <p>c. Register</p> <p>d. Data Bus</p>	1
10	<p>Which of the following is used to delete an element from a dictionary?</p> <p>a. Pop()</p> <p>b. Remove()</p> <p>c. Delete()</p> <p>d. All of the above</p>	1

11	<p>Which operator is used for floor division?</p> <p>a. / b. // c. % d. None of the above</p>	1
12	<p>What will be the output for the following code?</p> <pre>y=7 z=3 y//=z print(y)</pre> <p>a. 2 b. 3 c. 4 d. None of the above</p>	1
13	<p>Which of the following is no a type of error in Python?</p> <p>a. KeyError b. ValueError c. ZeroDivisionError d. FloatingError</p>	1
14	<p>A netizen must follow:</p> <p>a. Social Media Ettiquetes b. Communication Ettiquetes c. Net Ettiquetes d. All of the above</p>	1
15	<p>Which keyword is used to stop the loop before it has looped through all the items?</p> <p>a. continue b. stop c. break d. exit</p>	1

16	<p>What will be the output?</p> <pre>a = 33 if a: print(a)</pre> <p>a. False b. True c. a d. 33</p>	1
	<p>Q17 and 18 are ASSERTION AND REASONING based questions. Mark the correct choice as</p> <p>(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</p>	
17	<p>Assertion(A): Copyright, trademark, and patent are forms of intellectual property protection. Reason(R): To safeguard the innovation or creative work from duplicacy, copyright, trademark and patent are granted to the creators.</p>	1
18	<p>Assertion(A): Python has a set of built in methods that you can use on strings. Reason(R): All string methods return new values. They do not change the original string.</p>	1
Q No.	Section-B (14 Marks)	Marks
19	<p>Identify and correct the errors in the given code:</p> <pre>print("Hello, World") x = 5 y = 3 result = x + y print(result</pre> <p style="text-align: center;">OR</p>	2

	<p>Identify and correct the errors in the given code:</p> <pre>name = "Abhay" age == 30 print("My name is", name, "and I am", age, "years old")</pre>	
20	<p>What is the difference between Primary Memory and Secondary Memory?</p>	2
21	<p>Predict the output of the Python code given below:</p> <pre>n = 10 sum_even = 0 for i in range(1, n + 1): if i % 2 == 0: sum_even += i print(sum_even)</pre> <p style="text-align: center;">OR</p> <p>Predict the output of the Python code given below:</p> <pre>n = 5 factorial = 1 for i in range(1, n + 1): factorial *= i print(factorial)</pre>	1+1=2
22	<p>What is the IT ACT?</p>	2
23	<p>What is the difference between Concatenation and Repetition Operators? Give example.</p> <p style="text-align: center;">OR</p> <p>What are the different methods to add elements to a list? Give example.</p>	2
24	<p>Explain Net Etiquettes.</p> <p style="text-align: center;">OR</p> <p>What are the key communication etiquettes that individuals should follow in the digital world to ensure effective online interaction?</p>	2

25	What practices can be used to ensure a safe and secure Web browsing?	2
Q No	Section-C (15 Marks)	Marks
26	Write a Python Program to take a input number 'n' from the user and print its square and cube.	3
27	Predict the output: <pre>n = 10 for i in range(n, 0, -1): if i % 2 != 0: print(i, end=' ', sep='--') else: print(i, end=' ', sep='+++')</pre>	3
28	Write a program to calculate and display the sum of all odd numbers in a list. OR Write a program to input 'n' numbers in a list, and find the minimum and maximum number among 'n' numbers.	3
29	What is a key value pair with reference to Python Dictionary? Explain with syntax and examples.	3
30	Write a Python Program to accept a string and display the word which has vowel 'a' in it.	3
Q No.	Section-D (8 Marks)	Marks
31	Write a program to accept a string from the user and display the same string without space.	4
32	Write a program to search for a given element from a list and display its index value.	4

Q No.	Section-E (15 Marks)	Marks
33	Suggest appropriate functions for the following tasks: a. To check whether a string contain digits b. To check whether all the letters of the string are in uppercase c. To add a list to an existing list d. To delete existing element at a particular index from a list e. To get all the values of a dictionary for the existing keys	5
34	With reference to the above logic circuit, choose the best possible option for the following questions: a. What is the expression of R? b. What is the expression of Q? c. What is the expression of S? d. What is the expression of P? e. The truth table representation of the above logic will have _____ no. of rows.	5
35	Write a short note on the following: a. E-Waste Management b. Intellectual Property Rights	5