

CLASS : XII

COMPUTER SCIENCE

MARKS : 70

I Choose the Correct Answer

15 x 1 = 15

Q.no	Option	Answer	Marks
1.	a	Arguments	1
2.	d	Abstract data type	1
3.	b.	Selector	1
4.	c.	Protected member	1
5.	c.	Modular programming.	1
6.	a	Algorithmic Solution.	1
7	c	Memoization	1
8.	a	import	1
9.	b	return	1
10.	b	[]	1
11	c	*	1
12	d	10	1
13	b	[1, 2, 4, 8, 16]	1
14.	b	.	1
15	d	All the above	1

II. Answer any six questions

6×2=12.

Q.no	Answer	Mark
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16.

Interface

Defines what an object can do but won't actually do it

Implementation

It carries the instruction defined in the interface

(2)

17. Namespace :

They are Containers for mapping names of Variables to objects

(2)

18. phases :

Priori estimate (1)

Posteriori testing (1)

(2)

19. Output :

Result is Fail

(2)

20. Output :

2 4 6 8 10 (1)

End of the loop (1)

(2)

21. Output :

2 4 6

(2)

22. Output:
 Sum of myList 30 (1) (2)
 Maximum of myList 10 (1)

23. Accessing list element:
 In reverse order by using negative indexing. (2)

24. Program:
 $x = \text{int}(\text{input}(\text{"Enter a year"}))$
 if $(x \% 4 == 0)$:
 Print $(x, \text{"is a leap year"})$
 (or)
 any relevant program (2)

III. Answer any six 6x3=18

25. Side effect of impure function:
 Modifies the variable outside the function $\rightarrow (1)$
 Example: Any relevant example (2) (3)

26. Program designing strategy:
 Wishful thinking - (1)
 Definition - (2) (3)

27. Access Control :

It is a security technique to
Control the access of Variable — (1) (3)
Private, Public, Protected — (2)

28. Algorithmic Complexity :

Time Complexity, Space Complexity — (1) (3)
Explanation — (2)

29. Python Program :

```
for i in range(65, 70):  
    for j in range(65, i+1):  
        print(chr(j), end=' ')  
    print(end='\n')  
    i = i+1
```

 (3)

30. Break & Continue :

Any 3 differences

 (3)

31. format ()

Definition — (1)

Example — (2)

 (3)

32.

Constructor & Destructor:

Definition - (2)

Syntax/Example - (1)

(3)

33.

Output :

{ 'A', 'D' } - (1)

{ 2, 4 } - (1)

{ 2, 4, 'B', 'C' } - (1)

(3)

5 × 5 = 25

IVAnswer all the paragraph:

34. a)

Parameter :

Definition - (1)

w/o datatype - (2)

with datatype - (2)

(02)

(5)

b) Access multipart

Class Concept - (1)

Example - (2)

Explanation - (2)

(5)

35) a) Five benefits :

Any 5 benefits of modular programming (5)
(Each point carries 1 mark)
(OR)

b) Bubble sort :

Definition - (1)

Procedure - (2)

Example - (2)

(5)

36) a) Input() & Print()

Input() :

Definition, Syntax, Example (2.5)

(5)

Print() :

Definition, Syntax, Example (2.5)

(OR)

b) if ... elif ... else

Definition - (1)

Syntax - (2)

Example - (2)

(5)

37) a)

i) abs() ii) pow() iii) min()

iv) round() v) type()

- Explanation / Syntax / Example (Each carries 1 mark)

(01)

(5)

b) Output

i) E

— (1)

ii) Compu

— (1)

iii) T

— (1)

iv) UTER SCIENCE

— (1)

v) T I

— (1)

(5)

38) a) Nested Tuple :

Definition — (2)

Example — (2)

Output — (1)

(or)

(5)

b) Output :

[34, 45, 48] — (1)

[34, 45, 48, 90] — (1)

[34, 45, 48, 90, 71, 32, 29] — (1)

[34, 45, 48, 100, 90, 71, 32, 29] — (1)

[34, 48, 100, 90, 71, 32, 29] — (1)

(5)

Handling Teacher :

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3. Mrs. Sowmithra. S - S. Sowmithra
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5. Mrs. Lavanya. H - H. Lavanya
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6. Mrs. Divya. R - Divya. R
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