O. P. JINDAL SCHOOL, SAVITRI NAGAR
Annual Examination (2022 – 2023)

Class: XI **MM: 70**
Subject: Computer Science (083) **Time: 3 Hrs.**

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

General Instructions:

1. **This question paper has 5 pages.**
2. **This question paper contains five sections, Section A to E.**
3. **All questions are compulsory.**
4. **Section A has 18 questions carrying 01 mark each.**
5. **Section B has 07 Very Short Answer questions carrying 02 marks each.**
6. **Section C has 05 Short Answer type questions carrying 03 marks each.**
7. **Section D has 03 Long Answer type questions carrying 05 marks each.**
8. **Section E has 02 questions carrying 04 marks each.**
9. **All programming questions are to be answered in Python Language only.**

Section –A

1. Which of the following is not an example of primary memory?

a) Hard Disk c) ROM

b) RAM d) None of these

2. 4 bits makes ________________

a) 1 Byte c) 1 MB

b) 1 KB d) 1 Nibble

3. What will be the result of the expression 'false' and False.

a) false c) False

b) 'false' d) 'False'

4. Which of the following is considered as jump statements?

a) break c) if

b) while d) continue

5. The system software that converts high level language program to low levellanguage is known as ________.

a) Operating System c) Utilities

b) Language Processor d) DTP Software

6. Which of the following is not a cloud service?

a) IaaS
b) PaaS
c) SaaS
d) DaaS

7. Which of the following is not valid in octal number system?

a) 3   c) 7

b) 6   d) 9

8. What will be the output of the following code?

```
for i in range(55,50,-2):
        print(i)
```

a) 55 54 53 52 51   c) 55 54 53 52 51 50

b) 55 53 51   d) 51 53 55

9. Prutha is trying to convert a string literal '3' into integer. But she is confusedwhich function out of the following is used to do so? Help her to do the right choice for her work.

a) integer   c) int

b) number   d) num

10. Priyansh wants to store the value 5 into a variable n. Which of thefollowing statement is correct for him?

a) int n=5   c) 5=n

b) n=5   d) n='5'

11. Which of the following is valid identifier?

a) None   c) 0_None

b) #None   d) none

12. Which of the following are sorting algorithms?

a) Insertion   c) Bubble

b) Round Robin   d) None

13. Which of the following is a mutable data type in Python?

a) int   c) float

b) tuple   d) list

14. How many times does the following execute.

```
X=1
While(X<=5):
        X+1
Print(X)
```

a) 8   c) 16

b) 4   d)Infinite

15. When someone steals someone else's personal information to commit theft or fraud, it's called ________

a) Identity theft
b) Hacking
c) Computer Piracy
d) Infringement

16. From the string S = "CARPE DIEM". Which ranges return "DIE" and "CAR"?

Q17 and Q18 are ASSERTION and REASONING based questions. Mark thecorrect 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

17. **Assertion(A):** In python program variable a and A both have differentsignificance.
Reason(R): Python is case insensitive language.

18. **Assertion(A):** Python does not support explicit type casting.
Reason(R): Data type is not a part of variable declaration.

Section B

19. Convert the following numbers accordingly:

a) $(110011)_2=(?)_{10}$
b) $(345)_8=(?)_2$

20. Write a program to find the factorial of a given number.

OR

Write a program on a Fibonacci series.

21. Draw the logical circuits for : (A'+B')+(CD)'+(A+C')

22. Suggest appropriate functions for the following tasks –
(a) To check whether the string contains digits.
(b) To find the occurrence a string within another string.
(c) To convert the first letter of a string to upper case.
(d) To convert all the letters of a string to upper case.
(f) To check whether all the letters of the string are in capital letters.
(g) to remove all the white spaces from the beginning of a string.

23. Write the full form of the following:

a) SD
c) DVD
b) EEPROM
d) ROM

24. Identify error in the following code. Rewrite the corrected code afterremoving errors and underline the corrections:

```
a,b=input("Enter value:")
result=a/*b
print result
```

25. What will be the output of following:

```
a,b=10,5
print(a/b)
print(a//b)
print(a%b)
print(a**2)
```

OR

What do you mean by tokens? Explain in short.

Section C

26. Write an algorithm to compute simple interest.

OR

Draw a flow chart to compute area of circle.

27. Predict the output of the following code:

```
L1=[16,52,14]
L2=["Hello","Good",56]
L3=L1
L3.append("Morning")
print(L3)
L1.extend(L2)
print(L1)
L1.reverse()
print(L1)
```

28. What do you mean by comments? How many types of comments supportedby python? Explain each type of comments in detail.

OR

What do you mean by flow of control? Explain its types in brief.

29. Predict the Output:

```
a, b, c = 10,20,30
p, q, r = c – 5, a + 3, b – 4
print('a, b, c:', a, b, c, end =' ')
print("p, q, r:", p, q, r)
```

Section D

30. Write a program to accept bowler name, no. of over's bowled and runsgiven. Compute economy rate per over.

OR

Write a program to count the frequency of a given element in a list of numbers.

31. Write the most appropriate list method to perform the following tasks:

a) Delete a given element from the list.

b) Delete the third element from the list

c) Add an element in the end of the list.

d) Add an element in the beginning of the list.

e) Add elements of a list in the end of a list.

32. Define E-waste. How can E- waste be reduced?

OR

How does eavesdropping lead a victim to give personal information?

Section E

33. Prutha is class 11 student. She is learning python. She wants to display theonly the last two digits of a number. She has written the partial code as following:

```
n=__________#Statement 1
ld1=___________#Statement 2
n=_________#Statement 3 Remove the first last digit of a number
ld2=n%10
print("Last Digit 1:",__________, "Last Digit 2",________) #Statement 4
```

a) Statement 1 – Input n as integer

b) Statement 2 – Get the last digit by modulo division of number by 10

c) Statement 3 – Get new number by removing last digit using floordivision by 10

d) Statement 4 – Print the last digit 1 and last digit 2

34. (i) Write a program to accept name and marks of 05 students. Create a dictionary with name as key and marks as values.

(ii) Predict the output of the following code:

```
d1={"Physics":52,"Maths":69,"Chemistry":58}
d2={"Maths":87,"Biology":55,"CS":54}
d2.update(d1)
print(d1)
print(d2)
```

(iii) Consider the following dictionary statecapital.

Statecapital={“Andhara Pradesh”:”Hyderabad”,”Bihar”:”Patna”,Rajesthan”:”Jaipur”}

a) print((len(statecapital))

b) print(“Maharashtra” in statecapital)

c) del statecapital[“Andhra Pradesh”]

print(statecapital)