Self Assessment Paper

1

General Instructions :
1. This question paper contains two parts A and B. Each part is compulsory.
2. Both Part A and Part B have choices.
3. Part-A has 2 sections:
   (a) **Section – I** is short answer questions, to be answered in one word or one line.
   (b) **Section – II** has two case studies questions. Each case study has 4 case-based sub-parts. An examinee is to attempt any 4 out of the 5 subparts.
4. **Part-B** is Descriptive Paper.
5. **Part-B** has three sections
   (a) **Section-I** is short answer questions of 2 marks each in which two question have internal options.
   (b) **Section-II** is long answer questions of 3 marks each in which two questions have internal options.
   (c) **Section-III** is very long answer questions of 5 marks each in which one question has internal option.
6. All programming questions are to be answered using Python Language only.

PART-A

Section-I

Attempt any 15 questions from question no. 1 to 21.
Select the most appropriate option out of the options given.

1. Which of these is not programmable by user? **[1]**
   (a) PROM
   (b) EPROM
   (c) Mask ROM
   (d) EEPROM

[AI] 2. How many bytes make 1KB? **[1]**

[AI] 3. _____ software is made available with a right to distribute copies. **[1]**
   (a) Open Source
   (b) Freeware
   (c) Shareware
   (d) Proprietary

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4. What is an inverter gate? [1]

5. What is the importance of an OS? [1]

6. Choose the correct syntax for printing values in the same line [1]

    (a) print(a,b)

    (b) print(a, end=" ",b)

    (c) print (a,end="$",b)

    (d) print(a)print(b)

7. Find the error. [1]

```
hello =4
a =5
c = hello *a * a
1 class = c+20
2 class = 1 class *10
```

8. What will be the output of the following Python code and why? [1]

```
age = raw_input("enter your age")
ageafter10
= age +10
```

9. The .... operator is used to find out if division of two number yields any remainder [1]

    (a) /

    (b) +

    (c) %

    (d) //

10. What happens when the key specified in setdefault() method is not present in the dictionary? [1]

11. What are the two forms of import statement? [1]

12. Can tuples be nested? [1]

13. What do you understand by mutability? [1]

14. Python is a Free and Open Source language. What do you understand by this feature? [1]

15. What are cookies ? [1]

16. Anti-spam software gets rid of spam by [1]

    (a) sender filtering

    (b) getting automatic updates

    (c) through secured connection

    (d) All of the above.

AI 17. What is identity fraud? [1]

AI 18. Identify the types of License. [1]

    (a)

    (b)

19. When were the amendments to IT Act enforced ? [1]

20. One of the cultural changes induced by the technology is [1]

    (a) people have lost a deeper understanding of their culture.

    (b) going out for lunch and dinner has become a culture

    (c) people love to go shopping

    (d) All of the above

21. What is the full form of WEEE ? [1]

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Section-II

Both the Case study based questions are compulsory. Attempt any 4 sub parts from each question. Each question carries 1 mark.

22. What would following expression return?
    (a) "Hello World".upper().lower() [1]
    (b) "Hello World".lower().upper() [1]
    (c) "Hello World".find("Wor",1, **6**) [1]
    (d) "Hello World".find("Wor") [1]
    (e) "Hello World".find("wor") [1]

23. Given a string S = "CARPE DIEM". If n is length/2 then what would following return?
    (a) S[:n] [1]
    (b) S[n:] [1]
    (c) S[n:n] [1]
    (d) S[1:n] [1]
    (e) S[n:length-1] [1]

PART-B

Section-I

24. State De Morgan's law. Verify one of them using truth table. [2]

OR

Convert following binary numbers to decimal :
(a) 1010
(b) 1101101010

25. Draw a flowchart to calculate simple interest. [2]

26. What is coercion? [2]

27. Which of the following can be used as valid identifier(s) in Python? [2]
    (a) Total
    (b) >salute
    (c) Quest$ion
    (d) Great4

28. Write the corresponding Python expressions for the following mathematical expressions: [2]
    (a) $\sqrt{(a^2 + b^2 + c^2)}$
    (b) $5 - ye^{2y} + 4y$

AI 29. List some Python runtime errors. [2]

30. Look at the following two code snippets where each code counts number of letters 'f' and 's' in a sentence: [2]

```
//code 1          //code 2
   :                 :
if(c=='f'):       if(c=='f'):
    nf++              nf++
if(c=='s'):       elif(c=='s'):
    ns++              ns++
```

What is the difference between the two codes given above.

31. What will be the output of the following statement? Justify your answer. [2]
    >>>' Radha's dress is pretty'

AI 32. What precautions should be taken while handling emails? [2]

33. What is spyware? How long is their period of activity? [2]

OR

What are the two ways used by anti-spam software to get rid of spam?

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Section-II

[AI] **34.** How is Blue ray disc better than the conventional optical discs ? **[3]**

OR

[AI] Convert $(17.35)_{10}$ to binary form.

[AI] **35.** Write a program to accept an amount from the user and prints the discount given along with the final amount to be paid. The program should give 5% discount if the amount entered is over 5000 otherwise no discount. **[3]**

36. What is the difference between input() and raw_input()? **[3]**

[AI] **37.** List few practices to ensure confidentiality of information . **[3]**

OR

What does e-waste comprise of?

Section-III

[AI] **38.** What do you understand by the precedence of operators? Give precedence order of a major types of operators. **[5]**
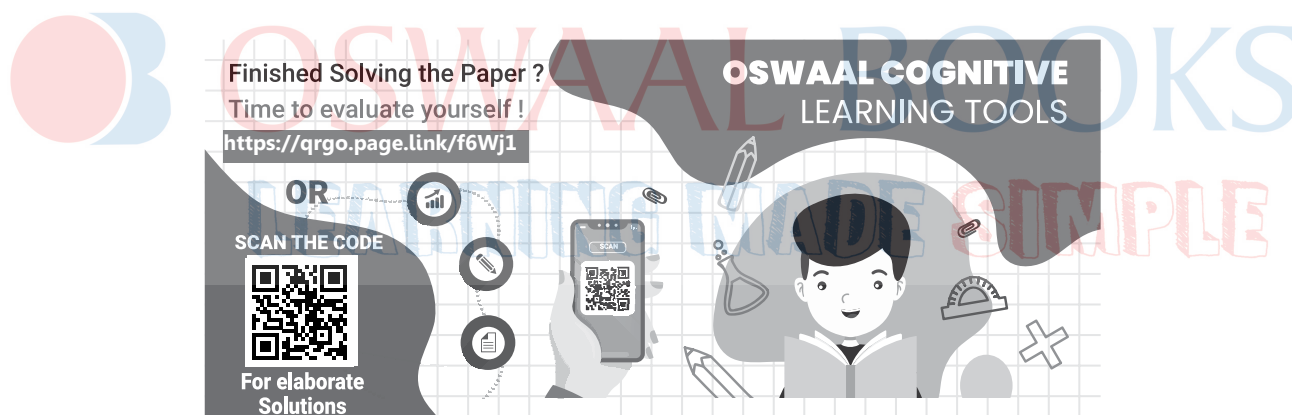
39. Write a program that takes a string with multiple words and capitalizes the first letter of each word and forms a new string out of it. **[5]**

40. How do websites track you online? **[5]**

OR

What is cyber-crime? How can you report it?

□□

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