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Questions:

SECTION - E (5 Marks)

1. The open source software movement is a movement that supports the use of open source licenses for some softwares. It was started to spread the concept of open source software. It began in the late 80's with the launching of the GNU project by Richard Stallman. He shared a key role in the conceptualisation of freely shared source code.
Answer the following questions:
(i) Define the term open source.
(ii) What are the criteria to be followed for open source software?
(iii) How do programmers contribute to open source community?
(iv) Name any two open source softwares.

2. Assertion (A): Random Access Memory (RAM) is volatile and stores data/programs currently in use.
Reason (R): RAM is a storage medium that retains its contents even after the supply of electricity has been turned off. In the light of the above statements
Codes:
a)Both (A)and (R) are true and (R) is the correct explanation of (A)
b)Both (A)and (R) are true and (R) is not the correct explanation of (A)
c)(A) is true but (R) is false
d)Both (A) and (R) are false

3. Assertion (A): Octal number system is also known as base-8 number system.
Reason (R): Each positional number in an octal system represents a power of 8.
Codes:
a)Both (A)and (R) are true and (R) is the correct explanation of (A)
b)Both (A)and (R) are true and (R) is not the correct explanation of (A)
c)(A) is true but (R) is false
d)Both (A) and (R) are false

4. Statement (I): The hexadecimal numbers are first converted into binary numbers and operations are performed using the binary representation of hexadecimal numbers using rules of binary numbers.
Statement (II): The information can be handled in hexadecimal form in digital circuits but it is easier to enter information using binary numbers.
Codes:
a)Both Statement (l) and Statement (II) are individually true and Statement (II) is the correct explanation of Statement (I)
b)Both Statement (1) and Statement (II) are individually true, but Statement (II) is not the correct explanation of Statement (I).
c)Statement (I) is true, but Statement (II) is false.
d)Statement (I) is false, but Statement (II) is true.

SECTION - D (4 Marks)

5. Explain four characteristics of computer

6. Explain Computer memory.

7. Pen drives are universal. Explain

8. Explain Cache Memory.

9. Differentiate between SRAM and DRAM.

10. What are the features of Python?

SECTION - C (3 Marks)

11. Explain Primary Memory Unit

12. Explain what is a computer and write its characteristics

13. Define computer. Give it's characteristics

14. Draw the block diagram of microprocessor.

15. What is microprocessor ? Name its various components.

SECTION - B (2 Marks)

16. What are the rules for identifier names?

17. Write a note on multiple assignments in Python?

18. Which of the following variable names are invalid? Justify.
(a) try
(c) abc@d
(b) 123Hello
(d) sum

19. What are data types? What are Python's data type?

20. What are the different number datatypes in Python?

21. What will be the output of the following Python code?
a=1
b=2
c=3
d=4
e=0
e = (a + b) * c / d #(3 * 3 /4) = 9/4

```
print("Value of (a + b) * c / d is ", e)
f = ((a + b) * c) / d # (3 * 3 ) / 4 = 9/4
print("Value of ((a + b) * c) / d is ", f)
g = (a + b) * (c / d); # (3) * (3/4) = 0
print("Value of (a + b) * (c / d) is ", g)
h=a+(b*c)/d; # 1+(2*3)/4=1+6/4=10/4
print ("Value of a + (b * c) / d is ", h)
```

22. Write the value justification:
    (i) 2*(3+4)
    (ii) 2*3+4
    (iii) 2+3*4

23. Find the output of the following:
```
a=4.5
b=2
print (a//b)
```

24. What will be the output of following statements when inputs are a=30, b=20, c=30?
```
print(a<b)
print(b< =c)
print(a<b<=c)
```

25. What do you mean by 'immutable'?

SECTION - A

Multiple Choice Question

26. Choose the correct syntax for printing values in the same line
    (a) print(a,b) (b) print(a, end=" ",b) (c) print (a,end="$",b) (d) print(a)print(b)

27. The_____data type allows only True/False value
    (a) bool (b) boolean (c) Boolean (d) None

28. If the value of a = 20 and b = 20, then a+ =b will assign____to a
    (a) 40 (b) 30 (c) 20 (d) 10

29. The_____operator is used to find out if division of two number yields any remainder
    (a) / (b) + (c) % (d) //

30. Special meaning words of Pythons, fixed for specific functionality are called ..... .
    (a) Identifiers (b) functions (c) Keywords (d) literals

31. Which of the following is an escape sequence for a newline character ?
    (a) \a (b) \t (c) \n (d) \b

32. Which of the following is not a legal integer type value in Python ?
    (a) Decimal (b) Octal (c) Hexadecimal (d) Roman

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33. Which of the following functions print the output to the console ?
    (a) Output( ) (b) Print( ) (c) Echo( ) (d) print( )

34. Who developed Python Programming Language?
    (a) Wick van Rossum (b) Rasmus Lerdorf (c) Guido van Rossum (d) Niene Stom

35. Is Python case sensitive when dealing with identifiers?
    (a) no (b) yes (c) machine dependent (d) none of the mentioned

36. Which of the following is not an immutable type in Python ?
    (a) String (b) Tuples (c) Set (d) integer

37. Is Python code compiled or interpreted?
    (a) Python code is both compiled and interpreted (b) Python code is neither compiled nor interpreted (c) Python code is only compiled (d) Python code is only interpreted

38. What will be the value of the following Python expression?
```
print(4 + 3 % 5)
```
    (a) 7 (b) 2 (c) 4 (d) 1

39. What is the value of the expression 100 / 25 ?
    (a) 4 (b) 4.0 (c) 2.5 (d) none of these

40. What is the value of the expression 100 // 25 ?
    (a) 4 (b) 4.0 (c) 2.5 (d) none of these

41. Which of the following character is used to give single-line comments in Python?
    (a) // (b) # (c) ! (d) /*

42. What will the following code produce ?
```
a = 8.6
b = 2
print ( a//b )
```
    (a) 4.3 (b) 4.0 (c) 4 (d) compilation error

43. In the Python statement x = a + 5 - b : a and b are .....
    (a) Operands (b) Expression (c) operators (d) Equation

44. Which of the following operators has the lowest precedence ?
    (a) not (b) % (c) and (d) **

45. What is the value of the expression 10 + 3 ** 3 * 2?

(a) 28 (b) 739 (c) 829 (d) 64

46. What will be the result of the expression 10 or 0 ?

(a) 0 (b) 1 (c) 10 (d) 1.0

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