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Questions:

4 Marks

1. (a) Convert the Decimal number 781 to its Binary equivalent.
   (b) Convert Binary number 101101.001 to its decimal equivalent
   (c) Convert Octal number 321.7 info its Binary equivalent

2. Do as directed
   (a) Convert the Decimal number 736 into Hexadecimal number.
   (b) Convert the Octal number 246.45 into Hexadecimal number.
   (c) Convert the Hexadecimal number ABEC into Octal number.
   (d) Covert the Octal number 576 to Decimal.
   (e) Convert tire Hexadecimal number ASCI to Decimal

3. What are the features of Python?

4. Write a program to find the area and perimeter of a triangle, square and rectangle.

3 Marks

5. Convert $(259)_{10}$ to binary form.

6. Fill the correct entry.

Decimal	Binary	Octal
0	000	0
1	001	1
2	?	2
3	011	3
4	100	4
5	101	5
?	110	6
7	?	?

7. Convert the following decimal numbers to binary.
   (a) 57
   (b) 642

2 Marks

8. What are the rules for identifier names?

9. Write a note on multiple assignments in Python?

10. What will be the output of the following code:

```
a = 3 - 4 + 10
b = 5* 6
c = 7.0/8.0
print "These are the values:", a, b, c
```

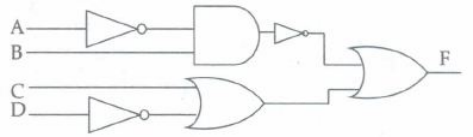
11. What are the different number datatypes in Python?

12. Find the output of the following:

```
a=4.5
b=2
print (a//b)
```

13. What do you mean by 'immutable'?

14. Obtain the Boolean Expression for the logic circuit shown below:

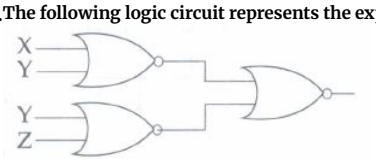


Multiple Choice Question

15. The binary equivalent of 3_{10} is
    (a) 0010_2 (b) 0011_2 (c) 0101_2 (d) 1010_2

16. The base of decimal number system is
    (a) 2 (b) 8 (c) 10 (d) 16

17. The following logic circuit represents the expression:



(a) (X'.Y)+(Y+Z)' (b) (X+ Y) (Y+Z) (c) (X.Y) (Y.Z) (d) (X.Y)+(Y+Z)'

18. Which of the following are not valid strings in
(a) "Hello" (b) 'Hello' (c) "Hello' (d) {Hello}

19. Which of the following is not a valid identifier?
(a) Mybook (b) @book (c) _book (d) book@

20. 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)

21. What is the full form of ROM?
(a) Read-Only Memory (b) Random Only Memory (c) Register Only Memory (d) Readable Only Memory

22. The binary number 111 in octal format is _____
(a) 6 (b) 7 (c) 8 (d) 5

23. Which law is represented by the equation A + A′ = 1?
(a) Identity Law (b) Complement Law (c) Domination Law (d) Idempotent Law

24. What is the Boolean expression for the OR operation?
(a) A.B (b) A+B (c) A′ (d) A⊕B

25. What does the NOT operation do?
(a) Inverts the input (b) Adds the input to 1 (c) Multiplies the input by 0 (d) Keeps the input the same

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

27. Names given to different parts of a Python program are ..... .
(a) Identifiers (b) functions (c) Keywords (d) literals

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

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

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

31. Which of the following is the correct extension of the Python file?
(a) .python (b) .pl (c) .py (d) .p

32. Repetition operation is depicted by the symbol _____.
(a) – (b) * (c) + (d) /

33. _____ returns the length or the number of elements of the tuple.
(a) tuple() (b) len() (c) count() (d) index()

34. In python, tuples values are enclosed in _____.
(a) Curly brackets (b) Parenthesis (c) Square brackets (d) None of the above

35. What will be the output of the following code.
str = tuple("Python")
print(tuple)
(a) ['P', 'y', 't', 'h', 'o', 'n'] (b) ('P', 'y', 't', 'h', 'o', 'n') (c) Python (d) None of the above

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