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Term -1 (2021- 22)

Class -XI

COMPUTER SCIENCE (CODE 083)

Max Marks: 35

Time: 90 MIN

General Instructions:

1. The question paper is divided into 3 sections- A,B and C.
2. Section A consists of 25 questions (1-25) .Attempt any 20 questions .
3. Section B consists of 24 questions (26-49).Attempt any 20 questions.
4. Section C consists of 6 case study based questions (50-55) .Attempt any 5 questions .
5. All question carry equal marks.

SECTION -A (Attempt only 20 questions)

Q.1 Which of the following is valid arithmetic operator in Python ?

- (a) // (b) ? (c) < (d) and

Q.2 Which value type does input() return ?

- (a) Boolean (b) string (c) Intint (d) Floatfloat

Q.3 Dictionary isData type.

- (a) integer (b) mutable (c) immutable (d) any of these

Q.4 Identify the valid declaration of L=[1,2,3,4,5]

- (a) list (b) dictionary (c) array (d) tuple

Q.5 Full form of RAM is:

- (a) Random Accessible Memory (b) Read Access Memory
(c) Random Access Memory (d) Read Available Memory

Q.6 You have the following code segment:

```
String1 = "my"  
String2 = "work"  
print(String1 + string2) What is the output of this code?
```

- (a) my work (b) work (c) mywork (d) my

Q.7 Which of these is not an operating system?

- (a) Windows (b) DOS (c) Linux (d) Oracle

Q.8 Which is the correct form of declaration of dictionary?

- (a) Day = {1 : 'Monday', 2 : 'Tuesday', 3 : 'wednesday'}
(b) Day = {1 ; 'Monday', 2 ; 'Tuesday', 3 ; 'wednesday'}
(c) Day = [1 : 'Monday', 2 : 'Tuesday', 3 : 'wednesday']
(d) Day = {1 'Monday', 2 'Tuesday', 3 'wednesday'}

Q.9 ASCII Value of G is: (a) 68 (b) 67 (c) 71 (d) 78

Q.10 Arrange in ascending order of size:

- (a) MB, KB, Byte, Nibble (b) Nibble, KB, MB, GB
(b) Bit, KB, Nibble, MB (d) Bit, GB, KB, MB

Q.11 It is a type of system software that translate and execute the instructions line-by-line:

- (a) Object Code (b) Assembler (c) Compiler (d) Interpreter

Q.12 Convert $(2C9)_{16}$ to Decimal:

- (a)731 (b)173 (c)317 (d)713

Q.13 You have given some statements as:

P=What is your name?

Q=Is today Sunday?

R=Is Pankaj a PGT-CS in Vidyalaya?

S=What is your favorite food?

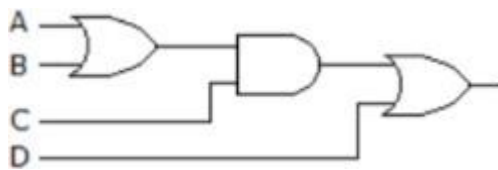
Identify the Boolean valued statement(s)

- (a) R, S (b) P, S (c) P, R (d) Q, R

Q.14 De Morgan's law states that:

- A. $(P.Q)' = P' + Q'$ B. $(P+Q)' = P' + Q'$ C. $P'+Q' = P'.Q'$ D. $(P.Q)' = P'.Q$

Q.15 Drive the Boolean expression for the logic circuit shown below:



- (a) $CA + CB + CD$ (b) $C(A+B)D'$ (c) $C(A+B) + D$ (d) $CA + CB + D$

Q.16 The logic gate that will have HIGH or "1" at its output when any one of its input is HIGH is a(n):

- (a) NOT operation (b) OR gate (c) AND gate (d) NOR gate

Q.17 The sum of $1111 + 1111$ in binary equals to:

- (a) 0000 (b)11110 (c) 2222 (d) 1111

Q.18 How many bytes does 4 kilobytes represent?

- (a) 4096 (b)1024 (c) 512 (d) 8192

Q.19 Modern Computers are very reliable but they are not:

- (a)Fast (b) Powerful (c) Infallible (d)Cheap

Q.20 Which of the following is not the computer language?

- (a) C++ (b) UNIX (c) Java (d) All of the above

Q.21 Which of the following is valid membership operator?

- (a) in (b) not in (c) both a and b (d) none of the above

Q.22 Statement $x += y$ is equivalent to _____

- (a) $x = x + y$ (b) $x=x*y$ (c) $x=y+x$ (d) $y=y*x$

Q.23 Which escape sequence represents newline character?

- (a) \n (b) \t (c) \T (d) \e

Q.24 Which of the following is an assignment operator?

- (a) = (b) /= (c) *= (d) all of the above

Q.25 Write the output of following code:

```
>>> n1 = 5
>>> n2 = n1
>>> n2 is n1
```

- (a) True (b) False (c) Error (d) 5

SECTION -B (Attempt only 20 questions)

Q.26 Write the output of the following :

```
>>> a = 'India'
>>> a *= 3
>>> a
```

- (a) IndiaIndiaIndia (b) India (c) India3 (d) 3India

Q.27 >>> 14 + 2 ** 2 evaluates to _____

- (a) 256 (b) 18 (c) 28 (d) None of the above

Q.28 Which of the following is a sequence data type?

- (a) string (b) integer (c) float (d) Dictionary

Q.29 Write the output of the following code :

```
>>> s = None
>>> s
```

- (a) nothing will be printed (b) None (c) Error (d) None of the above

Q.30 Which of the following is invalid Identifier?

- (a) Breakbreak (b) FILE34 (c) F_L (d) Myname

Q.31 Ahaana wants to make a fun program , if user enters any positive number a “Good” or if number is negative a “funny” message will appear . She is confused that which is the most suitable control to be used to make such program. Help her to choose correct option.

- (a) if (b) if else (c) if elif (d) nested if

Q.32 Which one of the following is a invalid Python if statement :

- (a) if a>=2: (b) if(a>=2): (c) if(a >=2) (d) if (a==2):

Q.33 Find output :

```
i = 0
while i < 3:
    print(i,end='')
    i += 1
else:
    print(0)
```

- (a) 0 1 (b) 0 1 2 (c) 0 1 2 0 (d) 0 1 2 3

Q. 34 Consider the loop control structure in programming. Which term describes a loop that continues repeating without a terminating (ending) condition?

- (a) Conditional loop (b) Infinite loop (c) sequence loop (d) Unlimited loop

Q.35 `sum = 0`
`values = [1,3,5,7]`
`for number in values:`
 `sum = sum + number`
`print(sum)`

find output of the above given code :

- (a) 0 (b) 12 (c) 16 (d) 7

Q.36

```
z = "xyz"
j = "j"
while j in z:
    print(j, end=" ")
```

What will be the output of this statement?

- (a) xyz (b) j (c) no output (d)jjjjj.....

Q.37 `for i in range(10,20,4):`
 `print(i)`

- (a) 10 (b) 10 (c) 10 14 18 (d) none of the above
 14 13
 18 17
 20

Q. 38 `if var1= "HELLO WORLD"`
`>>>print(var1[-8])`

- (a) H (b) O (c) l (d) L

Q. 39 Which from the following is a jumping statement?

- (a) break (b) continue (c) pass (d) all of them

Q.40 Can we write if/else into one line in python?

- (a)Yes (b) No (c) if/else not used in python (d) none of the above

Q.40 Assertion (A) : List is a mutable data type of Python.

Reason (R) : In place change is not possible in list elements.

- (A) Both(A) and (R) are true and (R) is a correct explanation of Assertion
(B) Both (A) and (R) are true, but (R) is not the explanation of Assertion
(C) If the assertion is true but Reason is false.
(D) If both Assertion and Reason are false.

Q. 41 Q. 41are reserved word.

- (a) identifier (b) keyword (c) token (d) variable

Q.42 Assertion (A) : The Hexadecimal system uses base 16.
Reason (R) : It uses the digits 0 through 9 and letters A- F as symbols

- (a) Both(A) and (R) are true and (R) is a correct explanation of Assertion
- (b) Both (A) and (R) are true, but (R) is not the explanation of Assertion
- (c) If the assertion is true but Reason is false.
- (d) If both Assertion and Reason are false.

Q.43 `x=3`
`if x>2 or x<5 and x==6:`
`print("ok")`
`else:`

`print("no output") # find output`

- (a) no output
- (b) Error
- (c) ok
- (d) first ok than no output

Q.44 Error in which statements are not meaning full is known as:

- (a) syntax error
- (b) run time error
- (c) compile time error
- (d) semantic error

Q.45 find output :

```
x = 3
if x == 0:
    print ("Am I learning python?", end = ' ')
elif x == 3:
    print("Or learning python?", end = ' ')
else :
    pass
print ("Or learning python 4 cbse?")
```

- (a) Am I learning python?
- (b) Or learning python?
- (c) Or learning python 4 cbse?
- (d) none of the above

Q. 46 find output :

```
name = "maya"
if name == "saya":
    print("delhi")
elif name == "mana":
    print("mumbai")
else:
    print("india")
```

- (a) Delhi
- (b)delhi
- (c) india
- (d) Mumbai

Q.47 find output:

```
car_color = "blue"
if 3 > 2:
    if car_color == "black":
        print("You rock!")
    else:
        print("Boring")
```

- (a) Boring
- (b) You rock!
- (b) blue
- (d) black

