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Holiday Home Work 2024-25 (Autumn Break)

XI Computer Science-083

NOTE: ATTEMPT IN CLASS WORK COPY

1	WAP TO ADD, SUBTRACT, MULTIPLY & DIVIDE TWO NUMBERS AND PRINT THE RESULT
2	WAP TO PRINT AREA & PERIMETER OF A CIRCLE
3	WAP TO CALCULATE SIMPLE INTEREST
4	WAP TO PRINT GREATER BETWEEN TWO NUMBERS
5	WAP TP PRINT GREATEST AMONG THREE NUMBERS
6	WAP TO CHECK NUMBER IS EVEN OR ODD
7	WAP TO PRINT TABLE OF A NUMBER
8	WAP TO PRINT FACTORIAL OF A NUMBER
9	WAP TO CHECK NUMBER IS PRIME OR NOT
10	WAP TO CHECK NUMBER IS ARMSTRONG OR NOT
11	WAP TO PRINT FIBONACCI SERIES
12	WAP TO PRINT SUM OF DIGITS OF A NUMBER
13	WAP TO PRINT REVERSE OF A NUMBER
14	WAP TO CHECK NUMBER IS PALINDROME OR NOT
15	WAP TO FIND SUM OF SERIES: $1 + X + X^2/2 + X^3/3 + \dots + X^N/N$
16	WAP TO FIND SUM OF SERIES: $1 - X + X^2/2 - X^3/3 + \dots + (-1)^N * X^N/N$
17	WAP TO FIND SUM OF SERIES: $1 - X + X^2/2! - X^3/3! + \dots + (-1)^N * X^N/N!$
18	WAP TO PRINT THE PATTERN: 1 1 2 1 2 3 1 2 3 4
19	WAP TO PRINT THE PATTERN: A A B A B C A B C D A B C D E
20	WAP TO PRINT THE PATTERN: 5 4 4 3 3 3 2 2 2 2

MCQs

Q1. Which smaller unit of CPU directs and coordinates all activities within it and determines the sequence in which instructions are executed, sending instructions sequence to other smaller unit.

- a) CU b) ALU c) Processor d) All of the above

Q2. Which is not Secondary Storage Device?

- a) RAM b) ROM c) Cache Memory d) All of the above.

Q3. Which is not Utility Software?

- a) MS Office b) Antivirus c) Disk Cleanup d) Compression Tools

Q4. Which is not Language Processor?

- a) Assembler b) Compiler c) Interpreter d) Disk Defragmenter

Q5. MICR stands for?

- a) Magnetic Ink Character Reader b) Magnetic Ink Code Reader
c) Magnetic Ink Caser Reader d) Magnetic Ink Computer Reader

Q6. When we work on any document on PC, it is stored temporarily in ____memory

- a) RAM b) ROM c) CPU d) CD-ROM

Q7. What do you call a program in execution?

- a). Command b) Process c) Task d) Instruction

Q8. Which of the following is not an operating system?

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

Q9. Which is not Secondary Storage Device?

- a). RAM b) ROM c) Cache Memory d) All of the above

Q10. Which is not Language Processor?

- a). Assembler b) Compiler c) Interpreter d) Disk Defragmenter

Q1. The hexadecimal digits are 1 to 0 and A to ____?

- a) E b) F c) G d) D

Q2. ASCII is a _____bit code and ISCII is a _____bit code.

- a) 8, 7 b) 7, 8 c) 8, 8 d) 7, 7

Q3. According to the distributive law $A(B+C) =$ _____.

- a) ABC b) AB+AC c) A+B+C d) A+BC

Q4. Convert the following: (i) $(4A)_{16} = (\quad)_2$ (ii) $(106)_{10} = (\quad)_8$

Q5. Convert the decimal number 106 to

- a) binary and b) octal.

Q6. ASCII uses ____bits to represent Characters.

- a) 5 b) 6 c) 7 d) 8

Q7. How many bits forms a Kilo Byte?

- a) 8194 Bits b) 8192 bits c) 4096 bits d) 1024 bits

Convert the following number in to given numbers:

- a) $(345.24)_{10} = (\quad)_2$ b) $(A35.57)_{16} = (\quad)_8$

Q9. Convert the following numbers in the given equivalent number system.

a). $(234.56)_{10} = ()_2$ b) $(1101111.11011)_2 = ()_{16}$ Q10.

Q 10. Full form of USB

a) Uniform Service Bus
Service Bus

b) Universal Serial Bus

c). Universal Sector Buffer

d) Universal

OUTPUT BASED QUESTIONS

Question 1:

Write the output of the given Python code :

```
a = 0
a += 2
print(a)
a) 2    b) 4    c) 6
```

Question 2:

Write the output of the given Python code :

```
a = 20
if a >= 22:
    print("if")
elif a >= 21:
    print("elif")
else:
    print("else")
a) Else    b) else    c) elif
```

Question 3:

Which Operator is used for comparison of values?

- a) Logical Operators b) Assignment Operators c) Relational Operators

Question 4:

What will be the output of the following code :

```
a = 1
a, b = a+1, a+1
print(a)
print(b)
a) 2,2    b) 4,2    c) 2,6
```

Question 5:

Use IDLE to calculate:

```
a = 6 + 4 * 10
b = (6 + 4) * 10
i)    (a) 46 b) 100 ii) a) 100 b) 46 iii) a) 100 b) 100
```

Question 6:

What will be the output of the following code :

```
a = 3 - 4 + 10
b = 5 * 6
c = 7.0/8.0
print(a,b,c, sep=";")
i) 9,30,0    ii) 9,30,1    iii) 10,30,0
```

Question 7:

What will be the output of following code?

```
X,Y=2,6
X,Y = Y,X+2
print(X,Y)
a) 17 5 b) 6 4 c) 4 6
```

Question 8:

```
x = ["apple", "banana"]
y = ["apple", "banana"]
z = x
print(x is z)
```

a) True b) False c) True or False

Question 9:

```
x = ["apple", "banana"]
print("banana" in x)
```

a) True b) False c) True or False

Question 10:

What will be the output of following code?

```
12 & 13
```

a) 12 b) 13 c) 12 & 13

Question 11:

Which are correct arithmetical operations? i) $a = 1 * 2$ ii) $2 = 1 + 1$ iii) $5 + 6 = y$ iv) $\text{Seven} = 3 * 4$

Question 12:

Which operations result in 8?

i) $65 // 8$ ii) $17 \% 9$ iii) $2 * * 4$
iv) $64 * * 0.5$

Question 13:

If the value of $a = 20$ and $b = 20$, then $a += b$ will assign a to a) 40
b) 30 c) 20 d) 10

Question 14:

The _____ operator is used to find out if division of two number yields any remainder

a) / b) + c) % d) //

Question 15:

Which of the following is the relational operator

a. //
b. =
c. ==
d. and

Question 16

- Which one of the following is a valid Python if statement :
 - if $a >= 2$
 - if $(a >= 2)$
 - if $(a == 22)$
 - if $a >= 22$
- The order of statement execution in the form of top to bottom is known as construct.
 - alternate
 - sequence
 - flow of data
 - flow chart
- The two membership operators areand

- a. in, not in b. true , false c.==,== d. none
4. A graphical representation of an algorithm to solve a problem is called
- a. flow of data b. barchart c. flow chart d. none
5. What is the logical expression for the following
Either A is greater than B or A is less than C
- a. $A > B$ or $A < C$ b. $A > B$ and $A < C$ c. $A > B$ and C d. $A > B$ or C
6. Which statement will check if a is equal to b?
- a. if a = b: b. if a == b: c. if a === c: d. if a == b
7. Consider the given expression:
"Python" or True and "Programming" or not 70
Which of the following will be correct output if the given expression is evaluated?
(a) True (b) False (c) 'Python' (d) 'Programming'
8. What shape represents a decision in a flowchart?
- (a) A diamond (b) A rectangle (c) An oval (d) A parallelogram
9. To add and assign the value 10 to a variable a we cannot write
(a) $a = a + 10$ (b) $a += 10$ (c) $a = +10$ (d) $a = 10 + 10$
10. _____ is developer of python.