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## MONTH OCT. 2019     CLASS: XII     SUBJECT: CS         MM: 50

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Q.1 Write a function in python that accept an integer as parameter and return the factorial of number. Store the return value of function in a variable and print it outside the function.         [4]

Q.2 Write a function QUEUE_INSERT( ) in python that perform the insertion operation on queue data structure.         [3]

Q.3 what is difference between "private/local" and "global/public" variable in python. Illustrate with suitable example.         [2]

Q.4 Write a function COUNT_WORD( ) in python that takes file name as parameter. Function should open the file in read mode and then count & print the number of words in file which are less than 3 characters.         [2]

Q.5 Differentiate between given below file handling python functions .         [2]

readline() and readlines()

Q.6 Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code.         [2]

```
 30=To
 for K in  range(0,To)
    IF k%4==0:
        print (K*4)
    Else:
        print (K+3)
```

Q.7 Write a function in python named FIND( ) that read a file "DATA.TXT"and display the total number of characters, no. of digits and no. of alphabets in the file.         [3]

Q.8 Write a function CopyFile() that takes two file names as parameters and then copy the contents of first file  into second file.         [3]

Q.9 Write the full form of following terms.         [2]

(a) GNU          (b) VoIP          (c) FLOSS                    (d) FTP

Q.10 Software Development Company has set up its new center at Raipur for its office and web based activities. It has 4 blocks of buildings named Block A, Block B, Block C, Block D.         [8]

Number of Computers

| | |
|---|---|
| Block A | 25 |
| Block B | 50 |
| Block C | 125 |
| Block D | 10 |

Shortest distances between various Blocks in meters:

| | |
|---|---|
| Block A to Block B | 60 m |
| Block B to Block C | 40 m |
| Block C to Block A | 30 m |
| Block D to Block C | 50 m |

(i) Suggest the most suitable place (i.e. block) to house the server of this company with a suitable reason.

(ii) Suggest the type of network to connect all the blocks with suitable reason .

(iii) The company is planning to link all the blocks through a secure and high speed wired medium. Suggest a way to connect all the blocks.

(iv) Suggest the most suitable wired medium for efficiently connecting each computer installed in every block out of the following network cables:
● Coaxial Cable
● Ethernet Cable
● Single Pair Telephone Cable.

(v) Suggest the cable layout to connect all blocks.

(vi) write the placement of following devices with justification

(a) switch      (b) repeater    (c) Modem

Q.11 Define the terms.                                                                                      [4]

(a) intellectual property rights          (b) plagiarism

Q.12 Write one cyber-crime and one crime that is not a type of cyber-crime.          [2]

Q. 13 write any 2 gender issues which occurs during use of computer lab.          [2]

Q. 14 Describe any five terms given below (cyber related terms).          [10]

(A) Phishing    (B) Bullying    (C) Scam      (D) Online fraud

(E) Digital property (F) E-Waste Disposal     (F) cyber law & Act

Q. 15 What is computer Forensics?                                                                [1]

~ ~ ~Good Luck~ ~ ~