CLASS XII A1&B UNIT TEST 1

TIME 2HRS MAX.MARKS	:50
COMPUTERNETWORKS	
1. Define networks.	1
2.Define Protocol.	1
3. Define Transmission medium. What are the types?	1
4. What is the difference between a passive and an active hub?	1
5. What are the three criteria necessary for effective and efficien	ıt
networks?	1
6. Define errors.List out the types of error.	1
7. Define CSMA /CD.	2
8. Change the following IP address from dotted decimal notation	ı to
binary notation.	1
i. 114.34.2.8 ii. 129.14.6.8	
9. Change the following IP address from binary notation to dotte	ed
decimal notation.	1
 i. 01111111 11110000 01100111 01111101 ii.11110111 11110011 10000111 11011101 10. Define DNS. Name some generic domain labels. 11. What are the things define by URL? 12. What is parity bit? What are the types? 13. What is Retransmission? Where it is used? 14. Compare IPv4 and IPv6 Address. 15. What are ACK, RTS, CTS, HTTP. 16. Consider the following network map showing how routers o various networks are connected. 	2 1 1 2 2 f
Prepare routing tables for any three routers of your choice. 17.Compare IMAP and POP. PYTHON	3

```
Which of the following can be used as valid variable identifier(s)
1.
    in Python?
       (i)4thSum
                         (ii)Total (iii)Number#
                                                   (iv) _Data
    What is the length of the tuple shown below?
2.
                                                                   1
            T = ((('a',1),'b','c'),'d',2),'e',3)
3.
    Rewrite the following code in Python after removing all
    syntaxerror(s). Underline each correction done in the code.
                                                                   2
                    STRING=""WELCOME
                    NOTE""
                    for S in range[0,8]:
                    print STRING(S)
                    print S+STRING
    Figure out the problem with the following code fragment. Correct
4.
    the code and then print the output.
                                                                   2
               s1="must"
                                                     print(s1+s2)
           T.
                                                V.
          II.
               s2="try"
                                               VI.
                                                     print(s2*n2)
                                               VII.
         III.
              n1=10
                                                     print(s1+n1)
         IV.
              n2 = 3
                                              VIII.
                                                     print(s2*n2)
5.
    The following code is not giving desired output. We want to input
    value as 20 and obtain output as 40. Could you pinpoint the
    problem?
                                                                   1
         n=input("enter number")
         d=n*2
         print(d)
    Why is following code giving errors?
6.
                                                                   1
         name="India"
         print("greeting !!!")
            print("hello",name)
            print("how you do")
    Write a Python program which accepts the radius of a circle from
7.
    the user and compute the area.
8.
    Why does the expression 2+3*4 result in the value 14 and not the
    value 24.
                                                                   1
                                                                   2
    Convert the following for loop into while loop
9.
    for i in range(1,100)
```

```
if i\%4 == 2:
                print i,"mod",4,"=2"
     What would be the output of the following code snippets?
10.
                                                                       1
                                (ii) print "4+9"
             print 4+9
     Write the output for the following codes:
11.
                                                                       1
        A={10:1000,20:2000,30:3000,40:4000,50:5000}
        print a.items()
        print a.keys()
        print A.values()
     Write the output from the following code:
12.
                                                                       1
        t=('a','b','c','a','b')
        print max(t)
        print min(t)
13.
     Below are seven segments of code each with a part colored.
     Indicate the data type of Each colored part by choosing the correct
     type of data from the following type.
                                                 (e) list of int
                 (b) float (c) bool (d) str
     (a)int
           if temp <32:
                                              (ii)
                                                      m=[]
      (i)
                                                      for i in range(3):
                print("Freezing")
                                                        m.append(i)
                                                        print(m)
14.
     Predict the output of the following
                                                                       2
        x = 45
        while x < 50:
               print(x)
        for p in range(1,10):
               print(p)
15.
     What is the output produced by the following code snippet?
                                                                       1
             alst=[1,2,3,4,5,6,7,8,9]
             print(alst[::3])
     Why can't List be used as keys?
16.
                                                                       2
17.
     What are nested list?
```