SUBJECT CODE : CS/PO/PY13

M. Sc. DEGREE EXAMINATION, NOVEMBER 2007
BIOINFORMATICS
FIRST SEMESTER

PAPER   : PYTHON
TIME   : 2 HOURS

MAX. MARKS : 50

Answer all questions. Marks will be given for correct logic even if the eventual answer is wrong

1.
a. Create a list of 10 numbers   1 mark
b. Add an item to it   1
c. Delete an item   1
d. Find the 6th item   1
c. Make a new list by multiplying each item by 2
        manually   1
        in one line   2

2.
a. Create a dictionary giving vegetables and prices   1
b. Print a statement of the form 'Name vegetablename Price: price 1
c. Add a new vegetable and price to the dictionary   1

3. In regular expressions what are the symbols for:
a. a digit   1
b. a letter   1
c. a space   1

4. In regular expressions what do the following indicate?
a. *   1
b. ?   1
c. +   1

5.
a. Write a function to add two numbers together   3
b. Use keyword arguments in the function   2

6. Write a regular expression to match a date of the form 21/03/2007   5

7. What is wrong with the following   1 mark each
a.

```
a = 1
if a = 1:
        print 'True'
else:
        print 'False'
```

b.

```
for N in range(1,10):
        print n
```

c.

```
def subt(a,b)
        return a + b
```

8.Using introspection describe the following in the
os module   1 mark each
a. os.path
b. os.walk
c. os.chmod

9. Use the urllib.urlopen to open the page:
http://nrcfosshelpline.in/web/   2 marks
Count the number of lines   2 marks
Count the number times 'and' appears   5 marks

10.What are the different forms of the
import statement. Describe them   2 marks

11. Write a class to add two numbers and give the
result   2 marks
Inherit from that class and add a method to subtract
the two numbers   3 marks

12. Write a program to substitute z for a, y for b and
x for c in the sentence 'A lazy cow fibbed about chow'   2 marks

—— X ——