## Python Beginner Homework 6

In the following multiple choice questions, please circle the correct output of Python code.

```
1. res=0
   num=50
   for i in range(2,num+1):
     while num%i==0:
       res=res+i
       num=num//i
   print(res)
           (b) 12 (c) 14 (d) 16 (e) 18
2. res=0
   num=12345
   while num>0:
     res=res+num%10
     num=num//10
   print(res)
   (a) 11 (b) 12 (c) 13 (d) 14
3. num=12345
   while num>0:
     print(num%100)
     num=num//10
                                           45 34 23 12 1
   (a) 12345
                  (b) 12 23 34 45
                                                              (d) 34 23 12 1
                                                                                     (e) 45
4. num=12345
   while num>0:
     num=num//10
     print(num%100)
(a) 34 23 12 1 0
                  (b) 12 23 34 45
                                        (c) 45 34 23 12 1
                                                                  34 23 12 1
                                                                                     (e) 45
5. num=11
   while num>0:
     print(num%2)
     num=num//
                    1101
                                                               (e) 000
   1011
                                 (c) 0 0 1 0
                                                (d) 1 1 1
```

Coding question 1: Count how many factor 2 in number 336. Answer should be 4 since 336=2x2x2x2x3x7.

Coding question 2: Count how many even digit in number 32546845. Answer should be 5 since digit 2, 4, 6, 8, 4 are even.

Coding question 3: Count how many digit 5 between number 1 and number 100. Answer should be 20 (5, 15, 25..., 50, 51, 51...59, 65, 75 ... 95).

Coding question 4: Calculate sum of all digits between number 1 and number 100 (inclusive). Answer should be 901 (1+2+3+4+5+6+7+8+9+1+0+1+1+1+2+1+3+....+9+8+9+9+1+0+0).