Course Title: Programming I **Date:17 / 04 / 2018** **No. of Questions: 3 Questions** **Time: 60 minutes** **Using Calculator (No)**	**University of Palestine** **Second Midterm Exam** **2nd semester 2017/2018** **Total Grade: 15**	**Instructor Name: Eng. Eman Alajrami** **Student No.: _____** **Student Name: _____** **College Name: _____** **Dep. / Specialist: _____** **Using Dictionary (No)**

First Question **No. of Branches (3)** **6 Marks**

1. What is the output of the floowing code? Rewrite the code using do .. while such that it keeps the same result. (2 marks)

```
int num = 1;
int i = 5;
        for (int j = 1; j <= i; j++) {
            System.out.print(num + " ");
            num *= 5;
        }
```

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2. What is y after the following for loop statement is executed? (1 mark)

```
int y = 3;
for (int i = 0; i <= 5; ++i)  {
   y += 1;
}
```

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3. To assign a double variable d to an int variable x, you write:
What this is called? (2 marks)

a. x = (long)d
b. x = (int)d;
c. x = d;
d. x = (float)d;

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Second Question **No. Of Branches (2)** **4 Marks**

1. **If n=3, what will be printed: (is there any error? Explain) (2 marks)**

```
switch(n)
{
    case 1:
System.out.printf("Good \n");
            break;
    case 3:
System.out.printf("Very Good\n");

    default:
System.out.printf("Bye \n");
  }
```

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2. **What will happen if the following code executed? How can you fix it and what will be printed after fixing it? (2 marks)**

```
int n = 3;
        int m = 10;
        while (n < m) {
            n = n + 1;
            m = m + 1;
        }
        System.out.println(m);
        System.out.println(n);
```

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Third Question **No. of Branches (2)** **6 Marks**

1. **Write a complete java program that reads two integers x, y as parameters then find and print the power of x ^y. (Use while loop). (3 marks)**

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3.Write **a complete Java program** by using **switch – case** statement to solve the following problem:
Read the grade as character for 10 students and for each student print the following statements except for student number 5.**(3 marks)**

" Excellent" if the grade is equal A.
" Very Good" if the grade is equal B.
" Good" if the grade is equal C
" Pass" if the grade is equal D
" Fail" if the grade is equal F
"Wrong character" if the grade is not A, B,C,D or F.

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"Education is not the learning of facts, but the training of the mind to think" Albert Einstein

Good Luck