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المرحلة : المرحلة الثانية  
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وزارة التعليم العالي والبحث العلمي  
جامعة تكريت  
كلية علوم الحاسوب والرياضيات  
قسم علوم الحاسوب

اسئلة الامتحان النهائي للعام الدراسي 2015/2016 ( الدور الاول ) نموذج رقم ( 2 )  
\*ملاحظة : الاجابة على جميع الاسئلة

Q1. Chose the right answer (write statement number and the answer you select):  
(15 marks)

1. The development of Java was driven by :
  - A. Databases management systems.
  - B. Adaption to changing environments and uses and implementation refinements and improvements in the art of programming.
  - C. The need for constructing high speed language.
2. Java derives its syntax from:
  - A. C++
  - B. C#
  - C. Pascal
  - D. C
  - E. Fortran
3. OOP is a programming methodology that helps organize complex programs through the use of
  - A. Structured programming.
  - B. Inheritance, encapsulation, and polymorphism.
  - C. Recursion.
  - D. Statements other than GO TO statements.
  - E. Simple syntax.
4. The original impetus for Java was:
  - A. The Internet.
  - B. The need for platform-dependent language.
  - C. The need for language that could be used to create software to be embedded in various consumer electronic devices.
  - D. The need for language capable of manipulating data rapidly.
  - E. The need for language to be used in image processing.
5. Java innovated a new type of networked program that changed the way the online world thought about content and this program is called:
  - A. Bytecode.
  - B. Unicode.

- C. Executable program.
- D. Applet.
- E. ASCII code.

Q2. Write program that reads 10 positive integers then call a method that receives one integer at a time and determines whether the passed number is prime or not. (15 Marks)

Q3. Write program that reads integer in decimal number system than converts its corresponding value in Hexadecimal number system. Use more than one method in the conversion process. Use showInputDialog method to read the input. (15 Marks)

Q4. A. Write program reads integer in the range 0-255 and prints the character that has the same ASCII value as the input number. (7 Marks)

B. Correct the following program: (8 marks)

```
import javax.swing.showInputDialog;
public class Game {
    public static void main(String[] args) {
        JOptionPane.showInputDialog(null, "Chose any name :\n" +
            "1. Ali\n2. zeki\n3. Ahmed\n4. Hassan\n5. Abd\n6. Jasim\n7. Basim");
        boolean counter = 0;
        int ans = JOptionPane.showMessageDialog(null, "Ali\nAhmed\nAbd\nBasim" );
        if (ans == JOptionPane.YES_OPTION)
            counter++;

        ans = JOptionPane.showMessageDialog(null, "Zeki\nJasim\nBasim" );
        if (ans == JOptionPane.YES_OPTION)
            counter+=2;

        ans = JOptionPane.showMessageDialog(null, "Hassan\nAbd\nJasim\nBasim" );
        if (ans == JOptionPane.YES_OPTION)
            counter+=4;

        switch (ans){
            case 1 : JOptionPane.showConfirmDialog(null, "You have chosen Ali");
                    break;
            case 2 : JOptionPane.showConfirmDialog(null, "You have chosen Zeki");
                    break;
            case 3 : JOptionPane.showConfirmDialog(null, "You have chosen Ahmed");
                    break;
        }
    }
}
```

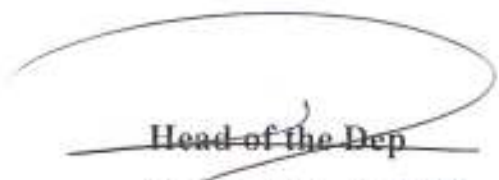
```
case 4 : JOptionPane.showConfirmDialog(null, "You have chosen Hassan");  
        break;  
case 5 : JOptionPane.showConfirmDialog(null, "You have chosen Abd");  
        break;  
case 6 : JOptionPane.showConfirmDialog(null, "You have chosen Jasim");  
        break;  
case 7 : JOptionPane.showConfirmDialog(null, "You have chosen Basim");  
        break;
```



**Examiner**

Dr. Zeki S. Kadoori

*Good Luck*



**Head of the Dep**

Mr. Ziad M. Abdallah