



PBA-P3010

Seat No. _____

M. C. A. (Sem. III) (CBCS) Examination

November / December - 2018

Core Java : Paper - 3010

(New Course)

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- 1 (a) Attempt the following : 4
- (1) What is recursion?
 - (2) Explain the use of finalize() method.
 - (3) List the use of "super"
 - (4) How objects are passed to the method?
- (b) Attempt any **one** of the following : 2
- (1) Justify the "public static void main(String)"
 - (2) Explain array mechanism in Java.
- (c) Attempt any **one** of the following : 3
- (1) Differentiate: Overloading Vs Overriding
 - (2) List and explain the usage of keyword "final"
- (d) Attempt any **one** of the following : 5
- (1) What is abstract class? Explain in detail suitable example.
 - (2) Explain the Object class in detail.
- 2 (a) Attempt the following : 4
- (1) What is CLASSPATH?
 - (2) What is interface?
 - (3) What is the use of "throw"?
 - (4) Write the syntax of try, catch and finally syntax.

- (b) Attempt any **one** of the following : **2**
- (1) Briefly explain the "import" statement.
 - (2) Explain nesting of try in brief.
- (c) Attempt any **one** of the following : **3**
- (1) Write a java program that illustrates the use of ArithmeticException
 - (2) Write a java program that will illustrate the use of finally block.
- (d) Attempt any **one** of the following : **5**
- (1) Discuss the access control specifier with respect to package.
 - (2) What is exception? Differentiate caught Vs uncaught exception.
- 3** (a) Attempt the following : **4**
- (1) Write the prototype of wait.
 - (2) Only list the different ways to create a thread.
 - (3) Define: event loop.
 - (4) What is processed based multi tasking?
- (b) Attempt any **one** of the following : **2**
- (1) List the different states of a thread.
 - (2) What is priority of a thread? Explain in brief.
- (c) Attempt any **one** of the following : **3**
- (1) Explain synchronization with suitable example.
 - (2) List the different methods of Thread class. Explain any one of them.
- (d) Attempt any **one** of the following : **5**
- (1) Explain the life cycle of thread.
 - (2) What is dead lock? Explain with suitable example.

- 4 (a) Attempt the following : 4
- (1) Define: Applet.
 - (2) List the class, which must be imported to create an applet.
 - (3) Briefly explain applet tag.
 - (4) List the constants of ActinEvent.
- (b) Attempt any **one** of the following : 2
- (1) Explain the use of adapter class.
 - (2) Explain FocusEvent in brief.
- (c) Attempt any **one** of the following : 3
- (1) What is an event? List the different events of event delegation model. Explain any of them.
 - (2) What is listener? Explain ActionListener.
- (d) Attempt any **one** of the following : 5
- (1) Explain the Applet life cycle in detail.
 - (2) Write a java program that illustrates the use of key event.
- 5 (a) Attempt the following : 4
- (1) What is stream in java?
 - (2) Explain the use of PrintStram.
 - (3) List two methods of Reader class.
 - (4) What is use of OutputStream?
- (b) Attempt any **one** of the following : 2
- (1) Differentiate: CharacterStream Vs ByteStream
 - (2) Briefly explain StreamTokenizer

- (c) Attempt any **one** of the following : **3**
- (1) Write a java program to illustrate the use of checkbox.
 - (2) Write a java program to illustrate the use of list.
- (d) Attempt any **one** of the following : **5**
- (1) What is Layout manager? List the different layout manager supported by Java. Explain any of them with suitable example.
 - (2) Write a java program to create a menu. It consists main menu option as (Roti, Subji, Exit). Roti has sub option roti-1, roti-2, roti-3. Subji has sub option sub1, sub-2. Clicking on exit will terminate the application,
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