



MAW-003-00340700

Seat No. _____

B. C. A. (Sem. IV) (CBCS) Examination

March / April - 2018

CS-19 : Programming with Java

(New Course)

Faculty Code : 003

Subject Code : 00340700

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

[Total Marks : 70

- Instructions :**
- (1) There are 5 questions in the question paper all of marks.
 - (2) All are compulsory.
 - (3) Give answer of all questions in main answer sheet.
 - (4) Mention your options clearly.

- 1 (a) Attempt following Objective Questions : 4
- (1) Give full forms: JRE
 - (2) Who created java programming language ?
 - (3) What is Default value in Long datatype ?
 - (4) How many bits are stored when creating short type variable?
- (b) Answer in Brief : (any **one**) 2
- (1) Explain JVM.
 - (2) Explain Decision statement.
- (c) Answer in Detail : (any **one**) 3
- (1) Explain primitive data type in detail.
 - (2) What is type casting? Explain with example.
- (d) Write a Note on Following : (any **one**) 5
- (1) What is array? Explain its type with example.
 - (2) What is overloading? Explain constructor overloading with example.

- 2 (a) Attempt following Objective Questions : 4
- (1) Which package is import when we use Random class?
 - (2) `int compareTo(String s2)`: how many type of return value?
 - (3) Which type of class is not inherits in java?
 - (4) List out type of access specifies in java.
- (b) Answer in Brief : (any one) 2
- (1) Explain Final Class.
 - (2) Explain Abstract Class.
- (c) Answer in Detail : (any one) 3
- (1) What is interface? Explain with example.
 - (2) What is inheritance? Explain with example.
- (d) Write a Note on Following : (any one) 5
- (1) Explain vector class with its method.
 - (2) Explain String class with its method.
- 3 (a) Attempt following Objective Questions : 4
- (1) Which Exception are occurred when invalid array index?
 - (2) When any number divisable by zero which exception is generated?
 - (3) What is the name of the method used to start a thread execution?
 - (4) List out two valid constructors for Thread.
- (b) Answer in Brief : (any one) 2
- (1) What is Byte stream?
 - (2) Explain throw and throws.

- (c) Answer in Detail : (any one) 3
- (1) Explain File Class.
 - (2) Explain DataInputStream Class.
- (d) Write a Note on Following : (any one) 5
- (1) What is Exception? Explain with example. *Java Exception*
 - (2) Explain thread life cycle. *State Diagram*
- 4 (a) Attempt following Objective Question : 4
- (1) Which methods can be used to output a string in an applet?
 - (2) Which is the default layout in applet?
 - (3) Which method is used Graphics class object as argument?
 - (4) Which command is used to Execution of an Applet?
- (b) Answer in Brief : (any one) 2
- (1) Explain Button Class.
 - (2) Explain Choice Class.
- (c) Answer in Detail : (any one) 3
- (1) Explain Graphics class.
 - (2) Explain flow layout.
- (d) Write a Note on following : (any one) 5
- (1) Explain Applet life cycle. *Applet State Diagram*
 - (2) What is layout? Explain card layout with example. *CardLayout*
- 5 (a) Attempt following Objective Questions : 4
- (1) Full Name: GUI
 - (2) Full Name: AWT
 - (3) Full Name: API
 - (4) Which package is needed to use swing components?

- (b) Answer in Brief : (any one) 2
- (1) Explain JList.
 - (2) Explain JComboBox.
- (c) Answer in Detail : (any one) 3
- (1) Explain MouseEvent.
 - (2) Explain JPanel with Example.
- (d) Write a Note on Following : (any one) 5
- (1) Explain Event Delegation model.
 - (2) Difference between AWT and Swing.
-