



**MBN-003-1074001** Seat No. \_\_\_\_\_

**M. C. A. (Sem. IV) Examination**

**April / May - 2018**

**P - 4010 : Advanced Java**

*(New Course)*

**Faculty Code : 003**

**Subject Code : 1074001**

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

[Total Marks : 70

- 1 (a) Attempt the following : 4
- (1) What is MVC ?
  - (2) What is glass pane ?
  - (3) What is content pane ?
  - (4) Explain JRootPane.
- (b) Attempt any **one** of the following : 2
- (1) List the different first top level container in Swing. Explain any one of them in brief.
  - (2) Briefly explain ButtonGroup.
- (c) Attempt any **one** of the following : 3
- (1) Describe : JPasswordField
  - (2) Describe: JTextField
- (d) Attempt any **one** of the following : 5
- (1) Write a swing code that will read a table form any database and dispays it content in a JTable.
  - (2) Write a Java swing code that will illustrate the utility of JTree.
- 2 (a) Attempt the following : 4
- (1) List name of two classes of java.sql
  - (2) List name of two interfaces of java.sql
  - (3) What is savepoint ?
  - (4) What is forName? Explain in brief.

- (b) Attempt any **one** of the following : **2**
- (1) What is prepared statement? Explain in brief.
  - (2) What is callable statement? Explain in brief.
- (c) Attempt any **one** of the following : **3**
- (1) List the different exception handling classes in JDBC. Also explain any one of them.
  - (2) Write a java program to delete a record from a stud table in student.mdb.
- (d) Attempt any **one** of the following : **5**
- (1) What is JDBC? List and explain different types of drivers in detail.
  - (2) Write a Java code that will create a table named book in the existing database name publisher.mdb.
- 3** (a) Attempt the following : **4**
- (1) What is Socket ?
  - (2) What is a packet ?
  - (3) Define port.
  - (4) Define IP.
- (b) Attempt any **one** of the following : **2**
- (1) What is loopback address ?
  - (2) List the methods of InetAddress.
- (c) Attempt any **one** of the following : **3**
- (1) Differentiate: UDP Vs TCP.
  - (2) List in how many different ways a networked based program can be executed ?

- (d) Attempt any **one** of the following : 5
- (1) Write a Java program that will copy a file. (You are suppose to write the code for server side)
  - (2) Write a Java program that will copy a file. (You are suppose to write the code for client side)
- 4 (a) Attempt the following : 4
- (1) List two names of web containers.
  - (2) Named the jar file which is required to compile a Servlet.
  - (3) Define: servlet.
  - (4) Explain: `getAttributeNames( )`.
- (b) Attempt any **one** of the following : 2
- (1) List the method of `HttpServletRequest` class.
  - (2) List the method of `HTTPServletResponse` class.
- (c) Attempt any **one** of the following : 3
- (1) Explain deploying method of a compiled servlet.
  - (2) Write a Servlet to display the content in a table format. Put the data of your choice.
- (d) Attempt any **one** of the following : 5
- (1) Explain the life cycle of a servlet.
  - (2) Write a servlet to display the content of a text file named 1.txt on the browser.
- 5 (a) Attempt the following : 4
- (1) Define : declarative tag
  - (2) What is implicit object? Explain its utility.
  - (3) Explain out implicit object.
  - (4) List the different types of implicit objects of JSP.

- (b) Attempt any **one** of the following : **2**
- (1) Explain Scriptlet tag with suitable example.
  - (2) Explain Expression tag with suitable example.
- (c) Attempt any **one** of the following : **3**
- (1) Differentiate : JSP VS Servlet.
  - (2) Write a JSP code to perform the square of a given number.(Create a function to do the square)
- (d) Attempt any **one** of the following : **5**
- (1) Explain the life cycle of JSP.
  - (2) Explain in detail JSP model architecture.
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