



PAQ-003-1074001 Seat No. _____

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

August / September - 2020

Advanced Java : Paper - 4010

Faculty Code : 003

Subject Code : 1074001

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

[Total Marks : 70

- 1 (A) Attempt the following : 4
- (1) _____ package must be imported to work with java swing.
 - (2) _____ is used to create a password object in java swing.
 - (3) Glass pane is a transparent instance of _____
 - (4) _____ pane is used to specify a Z-order for a component.
- (B) Attempt any **one** of the following : 2
- (1) Explain glass pane in brief
 - (2) Explain why swing components are light weight.
- (C) Attempt any **one** of the following : 3
- (1) Explain JTextField
 - (2) Explain JButton
- (D) Attempt any **one** of the following : 5
- (1) Explain JCheckBox with suitable example.
 - (2) Explain JRadioButton with suitable example.

- 2 (A) Attempt the following : 4
- (1) _____ package must be imported to work with JDBC
 - (2) A _____ Statement is used to call stored procedures that return values.
 - (3) CallableStatement is an interface in java.sql (true or false)
 - (4) ODBC stands for _____
- (B) Attempt any **one** of the following : 2
- (1) Explain in brief three tier application
 - (2) Only list the name of the different types of JDBC drivers.
- (C) Attempt any **one** of the following : 3
- (1) Differentiate ODB C Vs JDBC
 - (2) Explain Class.forName()
- (D) Attempt any **one** of the following : 5
- (1) List the various steps to implement the JDBC.
 - (2) Write a Java program that will insert a record in a table named studdet (no, name, sex) created in mysql.
- 3 (A) Attempt the following : 4
- (1) rmic stands for _____
 - (2) UDP stands for _____
 - (3) What is the acronym of TCP
 - (4) UDP is _____ type of protocol

- (B) Attempt any **one** of the following : 2
- (1) Only list the steps of RMI.
 - (2) What is port? Explain in brief.
- (C) Attempt any **one** of the following : 3
- (1) Explain InetAddress.
 - (2) Explain Socket.
- (D) Attempt any **one** of the following : 5
- (1) Explain RMI architecture in detail.
 - (2) Write a client side java program that copy a file.
- 4 (A) Attempt the following : 4
- (1) _____ interface declares life cycle methods for servlet.
 - (2) _____ interface is used to read data from a client request.
 - (3) _____ interface is used to write data to a client response.
 - (4) _____ interface allows servlets to get initialization parameters.
- (B) Attempt any **one** of the following : 2
- (1) What is servlet?
 - (2) Explain service method of Servlet interface.
- (C) Attempt any **one** of the following : 3
- (1) List the interfaces of javax.servlet.http package.
 - (2) Write a java servlet that will give "God is great" message to the client.

- (D) Attempt any **one** of the following : 5
- (1) Explain the life cycle of servlet.
 - (2) Write a servlet that will read the file and display it on the screen.
- 5 (A) Attempt the following : 4
- (1) The extension of the jsp file is _____
 - (2) CGI stands for _____
 - (3) _____ jsp action tag forwards the request and response to another resource.
 - (4) _____ jsp action tag includes another resource.
- (B) Attempt any **one** of the following : 2
- (1) List the different directives supported in JSP
 - (2) Explain JSP expression tag.
- (C) Attempt any **one** of the following : 3
- (1) Write a JSP code that will redirect you to open "sucsd.org.in" site.
 - (2) Write a JSP code that will display your name 10 times.
- (D) Attempt any **one** of the following : 5
- (1) Explain the life cycle of JSP.
 - (2) Write a JSP to read a text file and print it on the screen.
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