



Enrollment No.....

Faculty of Engineering

End Sem (Even) Examination May-2019

CA5CO18 Advanced Programming

Programme: MCA Branch/Specialisation: Computer Application

Duration: 3 Hrs.**Maximum Marks: 60**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1 i. Which of the following is logical operator **1**
 (a) & (b) && (c) | (d) All of these
- ii. toLowerCase() method returns **1**
 (a) int (b) boolean (c) float (d) None of these
- iii. Superclass of Exception is **1**
 (a) RuntimeException (b) Throwable
 (c) ArithmeticException (d) Error
- iv. Value of Thread.MAX_PRIORITY is **1**
 (a) 1 (b) 5 (c) 10 (d) 0
- v. AWT controls are available in the package **1**
 (a) java.awt.* (b) javax.awt.*
 (c) javax.awt.* (d) javax.swing.*
- vi. X and Y axis exists in **1**
 (a) BorderLayout (b) BoxLayout
 (c) CardLayout (d) FlowLayout
- vii. HttpServlet is **1**
 (a) Abstract Class (b) Interface
 (c) Method (d) Variable
- viii. executeQuery() method returns **1**
 (a) int (b) boolean
 (c) reference of ResultSet (d) None of these
- ix. JSP expression tag is **1**
 (a) <%-- --> (b) <%= %> (c) <% %> (d) <%@ %>

[2]

- x. Implicit object request is of type **1**
 (a) JspWriter (b) HttpServletRequest
 (c) HttpServlet (d) HttpServletResponse
- Q.2 i. Write a suitable java program on constructor overloading. **4**
 ii. Explain String class and explain toLowerCase(), concat(), equals(), compareTo() and length() methods of String class. **6**
- OR iii. Write a program using interface to calculate area of circle and its perimeter. **6**
- Q.3 Attempt any two:
 i. Write a java program using thread methods. **5**
 ii. Explain try, catch, throw, throws and finally with example. **5**
 iii. Write a java program implements Runnable interface. **5**
- Q.4 i. Explain Delegation event model with advantages. **4**
 ii. Write a java program for GridLayout. **6**
- OR iii. Write a java program for event handling using anonymous class. **6**
- Q.5 Attempt any two:
 i. Write java program to delete and update a database row of a table. **5**
 ii. Write java program for servlet interaction techniques. **5**
 iii. Explain ResultSet interface with its methods. **5**
- Q.6 Attempt any two:
 i. Explain any 5 implicit objects with example. **5**
 ii. Explain JSP Scripting elements. **5**
 iii. Create a JSP page info.jsp where shopkeeper enters products amount and quantity, shopkeeper can enter multiple product details in info.jsp. Create another JSP page bill.jsp which shows bill from the information taken from info.jsp. **5**

P.T.O.

Marking Scheme CA5CO18 Advanced Programming

Q.1	i.	Which of the following is logical operator (d) All of these	1
	ii.	toLowerCase() method returns (d) None of these	1
	iii.	Superclass of Exception is (b) Throwable	1
	iv.	Value of Thread.MAX_PRIORITY is (c) 10	1
	v.	AWT controls are available in the package (a) java.awt.*	1
	vi.	X and Y axis exists in (b) BoxLayout	1
	vii.	HttpServlet is (a) Abstract Class	1
	viii.	executeQuery() method returns (c) reference of ResultSet	1
	ix.	JSP expression tag is (b) <%= %>	1
	x.	Implicit object request is of type (b) HttpServletRequest	1
Q.2	i.	Java program on constructor overloading. Main method Class having constructor	4
	ii.	Define String class String class Methods	6
	OR	iii. Calculate area of circle and its perimeter Main Method Interface Class Implementing Interface	6
Q.3		Attempt any two:	
	i.	Java program using thread methods.	5

		Main Method	1 Mark	
		Classes extending thread	4 Marks	
	ii.	Explain try, catch, throw, throws and finally with example. One Keyword	(1 Mark *5)	5
	iii.	Java program implements Runnable interface. Main Method Classes implementing interface	1 Mark 4 Marks	5
Q.4	i.	Delegation event model Advantages.	2 Marks 2 Marks	4
	ii.	Java program.		6
	OR	iii. Java program		6
Q.5		Attempt any two:		
	i.	Java program to delete Update a database row of a table.	2.5 Marks 2.5 Marks	5
	ii.	Technique	(2.5 Marks*2)	5
	iii.	ResultSet interface One Method	(1 Mark* 5)	5
		Attempt any two:		
Q.6	i.	Implicit objects.	(1 Mark*5)	5
	ii.	JSP Scripting elements	(1 Mark *5)	5
	iii.	Info.jsp bill.jsp	2 Marks 3 Marks	5
