STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI - 600 086 (For candidates admitted during the academic year 2019 – 2020 and thereafter)

B. C. A. DEGREE EXAMINATION, APRIL 2024 FOURTH SEMESTER

PAPE SUBJ	SE: MAJOR ELECTIVE R: ADVANCED JAVA PROGRAMMING ECT CODE: 19CS/ME/AJ45 : 1 ½ HOURS MAX. MARKS: 50	
	SECTION A YER ALL QUESTIONS: (10 X 1 = 10) e the best answer:	
1	is the primary purpose of a PreparedStatement in JDBC.	
	 a) To execute a stored procedure on the database b) To execute a dynamically generated SQL query c) To execute a precompiled SQL statement with parameters d) To retrieve metadata information about the result set 	
2	class is used to represent an image in JavaFX.	
	a) Image b) ImageView c) Node d) Control	
4.5.	JavaFX transition is used to gradually change the opacity of a node over a pecified duration. TranslateTransition b) RotateTransition c) FadeTransition d) ScaleTransition HTTP method is primarily used for retrieving data from a server. PUT b) DELETE c) POST d) GET. is the primary function of a JSP Cookie. a) Managing user sessions b) Storing client-side data c) Generating dynamic content d) Controlling the JSP life cycle the blanks:	
6.	ResultSetMetadata provides information about theof the result set returned a query.	b
7. 8.	The class is responsible for defining the main window of a JavaFX application is a JavaFX control suitable for displaying a collection of items in a scrollable list.	le
	component of a web application is responsible for managing client requests and generating dynamic responses. JSP sessions are used to manage state.	
	SECTION B	
ANSV	TER ALL THE QUESTIONS: $(5 \times 2 = 10)$	
11. 12. 13. 14.	What is the purpose of XML Schema in XML validation? What is JavaFX? List its advantages. Name one class from the javafx.animation package used for basic animation. Differentiate between GET and POST HTTP methods.	
15.	What are the components of a JSP page?	

SECTION C

ANSWER ANY SIX OF THE FOLLOWING QUESTIONS:

 $(6 \times 5 = 30)$

- 16. Explain the steps involved in establishing a JDBC connection to a database.
- 17. Differentiate between Statement, PreparedStatement and CallableStatement in JDBC.
- 18. Describe the JavaFX Application Life Cycle.
- 19. Discuss the functionality and usage of ComboBox, ListView, TableView and TreeView in JavaFX,
- 20. Explain the basics of CSS styling in JavaFX, including how selectors are used to style JavaFX controls.
- 21. Describe the life cycle of a Servlet.
- 22. Explain the JSP implicit objects.
- 23. Elaborate the scripting elements in JSP.
