

SVKM'S
Mithibai College of Arts, Chauhan Institute of Science &
Amrutben Jivanlal College of Commerce and Economics (Autonomous)
Academic Year (2022-23)

Class: SYBSC Semester: IV

Program: B.Sc Computer Science

Max. Marks: 75

Course Name: Advanced Java

Time:

Course Code: USMACS402

Duration: 2 hrs 30 minutes

Date:


REGULAR EXAMINATION

Instructions: Candidates should read carefully the instructions printed on the question paper and on the cover of the Answer Book, which is provided for their use.

- 1) This question paper contains 2 pages.
- 2) Answer to each new question to be started on a fresh page.
- 3) Figures in brackets on the right-hand side indicate full marks.
- 4) Assume Suitable data if necessary.

Q1 ATTEMPT ANY 3 FROM THE FOLLOWING: [21]

- A** What is Swing? Discuss the features of Swing in detail. 7
- B** Write a Swing Code to design the following: 7



- C** Write a note on BLOB and CLOB with an example. 7
- D** State and explain JDBC steps for connecting a java program to a database. 7

Q2 ATTEMPT ANY 3 FROM THE FOLLOWING: [21]

- A** Develop servlet application of basic calculator (+, -, *, /) using HttpServletRequest and HttpServletResponse. 7
- B** Describe ServletContext interface with an example. 7

- C** Describe JSP Life cycle. 7
- D** What are JSP Actions? How they are different from directives? 7

Q3 ATTEMPT ANY 3 FROM THE FOLLOWING: [21]

- A** Explain why to use JSON and its applications. Also write a program in JSON to encode an employee class. 7
- B** Explain Struts 2 Architecture in detail. 7
- C** Discuss the different data types in JSON with an example. 7
- D** What is Value Stack in Struts2? What is the execution flow with respect to Value Stack? 7

Q4 ATTEMPT ANY 3 FROM THE FOLLOWING: [12]

- A** MVC is the important feature of SWING over AWT. Justify. 4
- B** State the 4 session management schemes available in servlets. 4
- C** What are Scrollable and non-Scrollable ResultSets? 4
- D** Write a note on OGNL in Struts2. 4
