

Roll No. ....

**3335**

**B. Tech. 6th Semester (CSE)**

**Examination – May, 2023**

**ADVANCED JAVA**

**Paper : PCC-CSE-306-G**

*Time : Three Hours | Maximum Marks : 75*

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

**Note :** Attempt *five* questions in all, selecting at least *one* question from each Unit. Question No. 1 is *compulsory*. All questions carry equal marks.

1. (a) Define CRUD.
- (b) What is WAR File ?
- (c) Define Hibernate Lazy Collection.
- (d) Differentiate between Constructor and Setter Injection.
- (e) What are the advantages of JSP over Servlets ?
- (f) Describe Android R.java file.  $6 \times 2.5 = 15$

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**UNIT - I**

- 2. (a) Describe life cycle of Servlet. 7
- (b) Explain how request dispatcher works in servlets? 8
- 3. Explain MVC in JSP. 15

**UNIT - II**

- 4. Explain in detail core components of Struts. 15
- 5. Write a program displaying steps to delete an email using Java Mail API. 15

**UNIT - III**

- 6. (a) Explain Hibernate HQL. 5
- (b) Explain Hibernate HCQL. 5
- (c) Explain Hibernate Logging with Log4j. 5

- 7. Elaborate Spring MVC Tiles with the help of program. 15

**UNIT - IV**

- 8. Explain Android Widgets in details. 15

9. Write short note on any **three** of these: 5 × 3 = 15

- (a) Creational Pattern
- (b) Behavioural Pattern
- (c) Structural Pattern
- (d) J2EE Pattern
- (e) Presentation Layer