Roll No. : ....

Total No. of Questions : **9**]   [Total No. of Pages : **3**

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**B.Tech. (CSE) 6th Semester (Supplementary)
Examination, July–2021**

(G Scheme)

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 total. Question No. **1** is compulsory and selecting *one* question from each Unit.

1. Explain the following :

    (a)   Generic Servelets

    (b)   MVC in JSP

(c) Spring AOP

(d) Single thread model

(e) UI tags

(f) J2EE design pattern   2½×6=15

Unit–I   15 each

2. What is Servelet ? Explain the life cycle of Servelet.

3. What is JSP Technology ? How does it work ? Also explain JSP9 objects ?

Unit–II   15 each

4. Explain the features of struts and struts 2 architecture in detail.

5. What is Java mail API ? Write the methods used for sending and receiving mail using JAVA Mail API.

Unit–III   15 each

6. Explain the architecture of Hibernate in detail.

7. What is Spring ? Explain dependency injection methods.

Unit–IV   15 each

8. Explain building blocks and architecture of Android.

9. Explain structural and behavioural Java design patterns.