

Total No. of Printed Pages:2

**SUBJECT CODE NO:- H-106**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**T.E. (CSE/IT)**  
**Advanced JAVA**  
**(OLD)**

[Time: Three Hours]

[Max.Marks:80]

Please check whether you have got the right question paper.

N.B

- i) Question No.1 and 6 are compulsory.
- ii) Attempt Any two questions from each section from remaining.
- iii) Figures to the right indicates full marks.
- iv) Assume Suitable data if necessary.

**Section A**

- |     |  |          |
|-----|--|----------|
| Q.1 | Attempt any five questions:  | 10       |
|     | <ol style="list-style-type: none"> <li>(a) What is J2EE? Give three Layers of J2EE architecture.</li> <li>(b) Define directives.</li> <li>(c) What is http protocol?</li> <li>(d) Enlist four action tags in JSP.</li> <li>(e) What is servlet config?</li> <li>(f) Draw Model-I &amp; Model-II architecture in JSP.</li> <li>(g) What is request header?</li> <li>(h) List the types of application development of java.</li> </ol> |          |
| Q.2 | <ol style="list-style-type: none"> <li>a) What is RMI? Explain RMI architecture with suitable example.</li> <li>b) What is JSP? Explain features of JSP over other languages.</li> </ol>   | 08<br>07 |
| Q.3 | <ol style="list-style-type: none"> <li>a) Explain lifecycle of servlet in detail.</li> <li>b) Write JSP code to display data from student database.</li> </ol>   | 08<br>07 |
| Q.4 | <ol style="list-style-type: none"> <li>a) Write short note on J2EE architecture.</li> <li>b) Write a servlet code to read html data &amp; display data on client browser.</li> </ol>   | 07<br>08 |
| Q.5 | <ol style="list-style-type: none"> <li>a) Explain N Tier architecture in detail.</li> <li>b) What are scripting elements describe with suitable example</li> </ol>   | 08<br>07 |

**Section B**

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|-----|---|----|
| Q.6 | Attempt any five questions:   | 10 |
|     | <ol style="list-style-type: none"> <li>a) Enlist Java mail protocols.</li> <li>b) Explain struts controller.</li> <li>c) Enlist hibernate components.</li> <li>d) Enlist types of beans.</li> <li>e) What is MIME?</li> </ol> |    |

- f) Enlist JSF lifecycle stages.
  - g) What is ORM?
  - h) Enlist facelets tags of JSF.
- Q.7 a) Explain the terms: i) UDDI ii) WSDL iii) XML iv) SOAP 08  
 b) Explain following terms: i) Clauses ii) Aggregate function iii) Sub queries. 07
- Q.8 a) Explain stateless and stateful session beans. 08  
 b) Write a program to read mail using java mail API 07
- Q.9 a) Explain what is JSF? Explain request processing lifecycle of JSF. 08  
 b) Explain SOA architecture in detail. 07
- Q10. a) Explain Architecture of JSF in detail. 07  
 b) Explain MVC? Explain struts validator framework in detail 08