

MCA (Revised)
Term-End Examination
December, 2017

03330

MCS-051 : ADVANCED INTERNET TECHNOLOGIES

Time : 3 hours

Maximum Marks : 100

Note : *Question no. 1 is compulsory. Attempt any three questions from the rest.*

1. (a) Write a JSP program to display current date and time. 5
- (b) Write a servlet program to fetch and display all the fields of an Account table with field name, account_no., address and balance. 8
- (c) What is Message Driven Bean ? Explain its transaction capabilities. 7
- (d) Briefly explain any seven JSP implicit objects. 7

- (e) What are Cookies ? Briefly explain the following methods of Cookie class : 8
- (i) setMaxAge
 - (ii) setVersion
 - (iii) setDomain
 - (iv) setPath
- (f) Briefly explain the life cycle of a stateless session bean with the help of a diagram. 5
2. (a) Explain the following interfaces : 5
- (i) HttpServletRequest
 - (ii) HttpServletResponse
- (b) What is an Entity Bean ? Explain its uses. 5
- (c) A bank account has the following attributes :
- Account number (mandatory)
 - Customer_id (can be multiple)
 - First name (mandatory)
 - Middle name (optional)
 - Last name (optional)
 - Account type (mandatory)
 - Balance (mandatory)
- Write an XML DTD to describe the bank account. 5
- (d) What is the need of web security ? Explain data integrity and system integrity in the context of web security. 5

- 3. (a) Explain HTTP basic authentication with the help of an example program. 10**
- (b) What is SGML ? Differentiate between SGML and XML. 5**
- (c) Differentiate between Java bean and Enterprise Java bean. 5**
- 4. (a) What is SSL handshake ? Explain its main features. 5**
- (b) Explain form based authentication with the help of a program. 10**
- (c) Differentiate between ServletContext and ServletConfig. 5**
- 5. (a) What is JDBC ? Explain the advantages of using JDBC with Java. 5**
- (b) Write a code fragment to forward a request received by a servlet to different JSP pages depending on the data received. 5**
- (c) Briefly describe the benefits of EJB architecture for developers and users. 10**
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