

[Total No. of Questions - 9] [Total No. of Printed Pages - 3]
(2125)

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B. Tech 8th Semester Examination

Web Development (OS)

CS-8001

Time : 3 Hours

Max. Marks : 100

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five questions in all, selecting one question from each section i.e. A, B, C & D. Section-E is compulsory.

SECTION - A

1. (a) Describe the structure of a typical Java program. Discuss the various control statements available in Java with examples. (10)
- (b) What are constructors? What are non-parameterized constructors? Explain with examples. (10)
2. (a) Distinguish between procedure oriented and object oriented programming languages. Give examples. (10)
- (b) Explain the following with examples:
 - (i) Garbage collection.
 - (ii) Finalize Method. (5×2=10)

SECTION - B

3. (a) What are Applets & how they are created? What are Applets activities? (10)

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- (b) What are packages? Create two classes that lie in two different sub directions and by using packages. Explain how you link them? (10)
4. (a) Explain what is an Exception? Also discuss how exception handling is carried out in Java using suitable examples. (10)
- (b) Explain:
 - (i) What are the classes and objects?
 - (ii) Interfaces.
 - (iii) Plugins.
 - (iv) Method over riding. (4×2½=10)

SECTION - C

5. Explain the different sections in HMTL along with the role of each section with suitable examples. Also explain the procedure to prepare & view HTML document? (20)
6. What do you understand by "FRAME" and how these can be created? What are the advantages and limitations of frames. Explain in detail. (20)

SECTION - D

7. Explain in detail that what is XML? Describe with the help of suitable example that how XML document is created. Also explain what XML links and various types of XML links. (20)
8. Explain Active Server Pages (ASP) and for what purpose they are used? How they are useful? What is the basic architecture of ASP? Describe through suitable examples? (20)

SECTION - E

9. Write brief on:

- (i) ASP server object.
- (ii) Difference between multithread and processes.
- (iii) Inheritance.
- (iv) Bitwise operators in Java.
- (v) Applet application.
- (vi) Operator Precedence.
- (vii) Exception using try and catch.
- (viii) Abstraction and encapsulation. (8×2½=20)