



Name :
Roll No. :
Invigilator's Signature :

CS/M. Tech (CSE)/SEM-2/MTCSE-252/2013

2013

INTERNET TECHNOLOGIES

Time Allotted : 3 Hours

Full Marks : 70

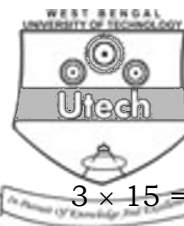
The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

GROUP – A

Answer any *five* of the following. $5 \times 5 = 25$

1. Discuss different approaches of parsing an XML document with suitable example.
2. What are the differences between IPV4 and IPV6 ?
3. Describe briefly how the web works.
4. Explain briefly about the benefits of IPV6.
5. Given a network address 220.56.10.0. Using this network address calculate the range of network addresses for 5 subnets.
6. Explain the difference between callable statement and prepared statement.
7. Describe Deployment descriptor in brief.
8. Describe the life cycle of JSP.



GROUP – B

Answer any *three* of the following. $3 \times 15 = 45$

9. a) Describe web browser architecture. 5
b) Describe in detail the steps to invoke the email client and FTP application from within a browser. 5 + 5
10. a) Describe web tier application structure. 4
b) What is the difference between HttpServlet and Generic Servlet ? 3
c) Describe Entity Bean, MDB and session bean based on their use. 8
11. a) Describe MVC architecture in brief. 5
b) Describe packaging and deployment tasks in brief. 5
c) Explain integration technologies in brief. 5
12. a) What is the difference between web container and EJB container ? 5
b) What is the difference between SAX parser and DOM parser ? 4
c) Write a program to read XML file using Java. 6
13. Write short notes on any *three* of the following : $3 \times 5 = 15$
i) ICMP
ii) TCP/IP reference model
iii) HTTP
iv) ARP and RARP
v) DOM.
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