

- iv) In IPv4, what is the length of the data field for given an HLEN value of 12 and total length value of 40,000 ?
 a) 39,988 b) 40,012
 c) 40,048 d) 39,952.
- v) Which of the following domain names would most likely use a country domain to resolve its IP address ?
 a) chal.atac.fhda.edu b) mac.eng.sony.com
 c) kmp.acct.sony.jp d) gsf.c.nasa.gov.
- vi) Variables are declared in Java Script using which of the following ?
 a) dim b) var
 c) function d) variable.
- vii) In IPv6, option length is
 a) 4 b) 5
 c) 3 d) infinite.
- viii) Which of the following syntax is correct for commenting lines in XML ?
 a) /I b) 1 * comments * 1
 c) :: d) <!--comments-->
- ix) The in XML is equivalent to the schema in database.
 a) Element b) Attribute
 c) Parser d) DTD.
- x) An XML parser is used to the contents of an XML document.
 a) display b) read but not interpret
 c) read and interpret d) none of these.
- xi) Which statement is true ?
 a) XML tags are case sensitive
 b) XML documents must have a root tag
 c) XML elements must be properly closed
 d) all the statements are true.
- xii) Cookies are stored in
 a) Web Server b) Web Browser
 c) Database Server d) Application Server.

GROUP - B

(Short Answer Type Questions)

Answer any *three* of the following. 3 × 5 = 15

2. What are cookies and sessions ? Why is a session object considered more secure and advantageous than cookies ?
 3 + 2
3. Compare POST and GET methods.
4. Why is HTTP stateless ? How is statelessness of HTTP overcome to run E-commerce applications on Web ? 2 + 3
5. Explain the life cycle of a Java servlet.
6. Briefly explain JSP architecture.

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following. 3 × 15 = 45

7. a) Define DTD. Explain different types of DTD with example.
 b) Prepare an XML document for the following table with internal DTD definition :

STUDENT

NAME	STUD_ID	Department
Ms.XYZ TYU	STUD_0001	I.T
Mr.GHJ TRE	STUD_0002	E.C.E

- c) What are elements and attributes ? Describe with examples.
 d) What is XML ? 1 + 2 + 6 + 4 + 2
8. a) State the main objectives of J2EE. Describe briefly about J2EE architecture.
 b) Write a simple servlet program which will return the current date and time.
 c) What is Web container? What is servlet engine ?

(5 + 4) + 3 + 3