BCA-17

June - Examination 2026
BCA (Part-III) Examination
Web Technology
Paper : BCA-17

[*Time: **3** Hours*] [*Maximum Marks: **70***]

Note :- The question paper is divided into three Sections A, B and C. Write answers as per the given instructions in each section.

Section-A **7×2=14**

(Very Short Answer Type Questions)

Note :- Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries **2** marks.

1. (i) Define XML Namespace.
   (ii) What is a well-formed XML document?
   (iii) Differentiate between DTD and XML Schema.
   (iv) What is XPath?
   (v) Define XSLT.
   (vi) What is XML Digital Signature?
   (vii) State any two applications of XML.

Section-B **4×7=28**

(Short Answer Type Questions)

Note :- Answer **any four** questions. You have to delimit your each answer maximum up to **200** words. Each question carries **7** marks.

2. Explain XML syntax rules with suitable examples.
3. What is DTD? Explain internal and external DTD with examples.
4. Discuss the advantages and disadvantages of XSLT.
5. Explain XML Schema (XSD). How are elements and attributes declared in XSD?
6. What is XPath? Explain different XPath expression with examples.
7. Describe XSL - FO and explain the process of XML transformation.
8. Explain DOM and SAX parsers. Compare both approaches.
9. How do you create an XML document? Explain the complete structure of an XML document with suitable examples.

Section-C

2×14=28

(Long Answer Type Questions)

Note :- Answer **any two** questions. You have to delimit your each answer maximum up to **500** words. Each question carries **14** marks.

10. Explain XML Schema data types. Discuss simple and complex data types with syntax and examples.

11. Define XPath nodes. Explain various node-set functions with examples.

12. Discuss XML publishing. Explain the capabilities and features of XSL-FO in detail.

13. Explain XForms in detail. How can data be inserted and validated using XForms. Illustrate with examples.
