

**BCA-17**

December - Examination 2019

**BCA Pt. III Examination****Web Technology****Paper - BCA-17****Time : 3 Hours ]****[ Max. Marks :- 70**

**Note:** The question paper is divided into three sections A, B and C. Write answers as per given instructions.

**Section - A****7 × 2 = 14****(Very Short Answer Questions)**

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

1.
  - i. What is XQuery in XML?
  - ii. How can you apply a DTD to an XML document?
  - iii. What is a valid XML document?
  - iv. Is XML meant to be a replacement of HTML?
  - v. Define XSNL.
  - vi. What is SAX in XML?
  - vii. Give two benefits of using XML.

**Section - B** $4 \times 7 = 28$ **(Short Answer Questions)**

**Note:** Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 7 marks.

2. Define the rules to create a well formed XML.
3. Explain tag, attribute and namerules used in XML.
4. What is the difference between Xpath and Xquery? Define functions of Xpath.
5. How can we use the conditional statements in XSLT?
6. What do you understand by Application Programming Interface (API's)? What are the different XML API's?
7. Define XForm. How we can insert data in XForm? Explain with an example.
8. Explain the document object model (DOM) in detail.
9. Give differences and similarities between XSL-FO List and Table.

**Section - C** $2 \times 14 = 28$ **(Long Answer Questions)**

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

10. What is DTD? How is it useful for validating XML? Explain with suitable example.
11. What is XML schema? How XML Schema is successors of DTD?
12. What is Canonicalization? How it helps in security of web sites?
13. Write short note on any two.
  - i. XML Digital signature
  - ii. XML Database
  - iii. XPointer
  - iv. XKMS structure