

Dr. Babasaheb Ambedkar Open University
Term End Examination July – 2026

Course	: BCA	Date	: 08/07/2026
Subject Code	: BCA-503	Time	: 11.30am to 01.45pm
Subject Name	: Web Technologies using FOSS (LAMP/WAMP)	Duration	: 02.15 Hours
		Max. Marks	: 70

Section A

Answer the following (Attempt any three) (30)

1. Explain the Client–Server Architecture in detail.
2. Discuss the structure of an HTML document, lists, tables, forms and hyperlinks with suitable examples.
3. Explain Free and Open Source Software (FOSS).
4. Explain GNU/Linux Operating System.
5. Explain XML and JSP Technology.

Section B

Answer the following (Attempt any four) (20)

1. Write a short note on World Wide Web (WWW).
2. Explain Relative URL with a suitable example.
3. State any five advantages of Open Source Software.
4. Explain the purpose of the `ls`, `pwd` and `mkdir` commands in Linux.
5. Explain XML Declaration with an example.
6. Write a short note on SOAP.

Section C

Part – A (Multiple Choice Questions) (10)

Q.1 A browser requests a webpage from a remote server. Which protocol is primarily responsible for this communication?

- A) FTP B) HTTP
C) SMTP D) SSH

Q.2 Which HTML element is primarily intended to collect information entered by a user?

- A) <table> B) <form>
C) <title> D) <meta>

Q.3 A software license allows users to study, modify and redistribute the source code. Which software category best matches this description?

- A) Trialware B) Proprietary Software
C) Free and Open Source Software D) Shareware

Q.4 Which Linux command displays the current working directory?

- A) cd B) pwd
C) ls D) chmod

Q.5 Which Linux command is mainly used to display the contents of a directory?

- A) mv B) cp

Q.6 Which XML feature is mainly used to avoid conflicts between element names from different vocabularies?

A) Comments

C) Attributes D) Entities

Q.7 Which technology allows Java code to be embedded inside HTML pages for dynamic web content?

A) XML B) JSP

C) CSS D) JSON

Q.8 Which component processes client requests and generates dynamic responses on the server?

A) Browser B) Servlet

C) CSS D) XML Parser

Q.9 Which XML technology is mainly used to select specific elements from an XML document?

A) SAX

C) XPath D) DOM Level 0

Q.10 Which web service standard is primarily used to describe the operations offered by a web service?

A) SOAP B) HTTP

C) WSDL D) HTML

Part – B (State whether the following statements are true or false)

(10)

- 1 HTTP is a request-response communication protocol used on the Web.
- 2 A Relative URL always includes the complete domain name of a website.
- 3 GNU/Linux is an example of Free and Open Source Software.
- 4 The chmod command is used to modify file permissions in Linux.
- 5 XML allows users to define their own tags.
- 6 JSP pages are translated into Servlets before execution.
- 7 SOAP messages are commonly represented using XML.
- 8 XPath can be used to locate specific nodes in an XML document.
- 9 A Web Service can exchange data between applications running on different platforms.
- 10 Servlets execute on the client machine.
