



**WEST BENGAL STATE UNIVERSITY**  
B.Sc. Honours 5th Semester Examination, 2020, held in 2021

**CMSACOR11T-COMPUTER SCIENCE (CC11)**

**INTERNET TECHNOLOGY**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.  
Candidates should answer in their own words and adhere to the word limit as practicable.  
All symbols are of usual significance.*

**GROUP-A**

1. Answer any **four** questions from the following: 2×4 = 8
- (a) What is the difference between array and ArrayList in Java?
  - (b) What is the use of EventListeners class in Java?
  - (c) What are the advantages and disadvantages of JDBC-ODBC Bridge Driver?
  - (d) What is the use of jsp:useBean tag?
  - (e) What are the advantages of servlet?
  - (f) How submit button and reset button are used in JavaScript?
  - (g) What is MVC?

**GROUP-B**

**Answer any four questions from the following**

8×4 = 32

2. (a) Discuss various components of JDBC. 3+5
- (b) Explain the steps of inserting records in database using JDBC.
3. (a) What do you mean by client side JavaScript? 2+6
- (b) Write JavaScript to validate the following fields of the Registration page.
- (i) First Name (name should contains alphabets only).
  - (ii) Password (Password should not be less than eight characters length and should contain one lowercase alphabet, one uppercase alphabet, and a special digit).
  - (iii) Mobile Number (The number should contain 10 digits only)

4. (a) What is Event? 2+3+3  
(b) Mention different types of events with examples.  
(c) Write down the different services provided by the web container.
5. (a) Describe MVC architecture. 3+5  
(e) Difference between the use of radio button and check box with suitable examples.
6. (a) Explain the advantages of client-side validation over server-side validation. 3+5  
(b) Write a JavaScript code to validate an E-Mail id having format 'xxxxx@xxxxxx.xxx'.  
( 'x' represents alphanumeric values)
7. (a) Explain various scripting elements used in JSP with examples. 6+2  
(b) What are the main characteristics of JavaBean from other java classes?

**N.B. :** *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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