



'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL

BCA Honours 5th Semester Examination, 2021

CC11-BACHELOR OF COMPUTER APPLICATION (51)

INTERNET TECHNOLOGIES

Time Allotted: 2 Hours

Full Marks: 40

*The questions are of equal value.
The figures in the margin indicate full marks.*

GROUP-A

1. Answer any *five* questions from the following: 1×5 = 5
- (a) A piece of icon or image on a webpage associated with another webpage is called:
- (i) url (ii) plugin
(iii) hyperlink (iv) none of the mentioned
- (b) Common gateway interface is used to
- (i) generate executable files from web content by web server
(ii) generate web page
(iii) stream videos
(iv) none of the mentioned
- (c) If a group of computers connected to a central concentrator the network has what type of logical topology?
- (i) Ring (ii) Bus (iii) Star (iv) Hybrid
- (d) Java Development Kit includes
- (i) Java (ii) JDB (iii) Java C (iv) All
- (e) A firewall can be
- (i) A hardware (ii) A software
(iii) Both software + hardware (iv) Network Engine
- (f) Buffer overflow attacks means
- (i) Collect and relay some data (ii) Get full system access
(iii) Play and display advertisement (iv) Slow down system
- (g) Out is instance of which class
- (i) Javax.servlet.jsp.JspWriter (ii) Javax.servlet.jsp.PingWriter
(iii) Javax.servlet.Writer (iv) Javax.servlet.jsp.Writer

- (h) Which of the following are the valid scopes in JSP?
(i) Request, page, session, application (ii) Request, page, session, global
(iii) Response, page, session, application (iv) Request, page, context, application

GROUP-B

2. Answer any *three* questions from the following: 5×3 = 15
- (a) What is world wide web? What is the contribution of java to the world wide web? 5
- (b) What are different operators available in java? Give example. 5
- (c) Write a java script program to print the sum of a Fibonacci series. The range must be entered by the user. 5
- (d) What do you mean by registering an event handler? Explain with example. 5
- (e) How to perform exception handling in JSP? Explain with suitable example. 5

GROUP-C

3. Answer any *two* questions from the following: 10×2 = 20
- (a) What is JSP? What are the life-cycle methods for a JSP? List out some advantages of using JSP. How is JSP used in the MVC model? What are the primary difference between the JSP custom tags and Java beans? 10
- (b) What are Java Beans? Why is not a Bean an Applet? What are the security implications for downloading Beans over internet? Write a simple Bean program. 10
- (c) What is JDBC? What is JDBC driver? What are the steps to connect to the database in Java? What are the JDBC API components? 10
- (d) Using Java Script create a simple multiplication table asking the user the number of rows and columns he / she wants. 10

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