

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION)

CLASS: BCA
BRANCH: COMPUTER SCIENCE

SEMESTER: III
SESSION: MO/2022

SUBJECT: CA220 INTERNET TECHNOLOGIES

TIME: 2 HOURS

FULL MARKS: 25

INSTRUCTIONS:

1. The total marks of the questions are 25.
2. Candidates attempt for all 25 marks.
3. Before attempting the question paper, be sure that you have got the correct question paper.
4. The missing data, if any, may be assumed suitably.
5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.

	CO	BL
Q1 (a) Define internet and list the facilities provided by it.	[2] 1	1
Q1 (b) Explain TCP/IP communication process	[3] 1	2
Q2 (a) What do you mean by computer network?	[2] 1	1
Q2 (b) Briefly explain 2-tier and 3-tier architecture.	[3] 1,2	4
Q3 (a) Define attributes and tags in HTML.	[2] 1	1
Q3 (b) Explain the evolution of different features of HTML-1.0 to HTML-5.0 with the basic structural template of HTML	[3] 1	2
Q4 (a) Describe the three list types in HTML.	[2] 1	1
Q4 (b) Write HTML code for the following table.	[3] 3	3

Courses Offered

Department	Course	Fees
Computer Science	BCA	50000
	MCA	70000
Management	BBA	40000
	MBA	65000

Q5 (a) Define a well formed and valid XML document.	[2] 1	1
Q5 (b) Discuss the purpose of XML Namespace.	[3] 1	2

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BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)

CLASS: BCA
BRANCH: BCA

SEMESTER : III
SESSION : MO/2022

SUBJECT: CA220 INTERNET TECHNOLOGIES

TIME: 3:00 Hours

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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		CO	BL
Q.1(a)	Define the term Port.	[2]	1 1
Q.1(b)	Differentiate between http and https.	[3]	1 2
Q.1(c)	Define IP address and find Network ID, Broad cast ID and number of useable host IP address for the given network IP: 150.10.20.30	[5]	1 4
Q.2(a)	How will you define frame?	[2]	2 1
Q.2(b)	Briefly explain drawbacks associated with the frame.	[3]	2 1
Q.2(c)	Describe TCP/IP communication model with all layers involved.	[5]	2 2
Q.3(a)	Define validity of XML document.	[2]	3 1
Q.3(b)	Discuss the XML schema definition and XML DOM.	[3]	3 1
Q.3(c)	Explain prolog in XML and differentiate between internal and external DTD.	[5]	3 2
Q.4(a)	Define Servlets.	[2]	4 1
Q.4(b)	Explain execution philosophy and life cycle of Servlets.	[3]	4 2
Q.4(c)	Briefly explain all the strengths associated with Servlets.	[5]	4 1
Q.5(a)	How will you pass control across multiple JSP pages?	[2]	5 2
Q.5(b)	Differentiate between Servlets and JSP.	[3]	5 2
Q.5(c)	Explain page, request, session and application scope of an object in JSP page specification.	[5]	5 1

:::23/11/2022:::E