

This question paper contains 4+1 printed pages]

9/12/19 E

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S. No. of Question Paper : 7086

Unique Paper Code : 62344328

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Name of the Paper : Computer Networks and Internet  
Technologies

Name of the Course : B.A. (Programme) Computer  
Applications

Semester : III

Duration : 3 Hours

Maximum Marks : 75

(Write your Roll No. on the top immediately on receipt of this question paper.)

Section A is compulsory.

Attempt any five questions from Section-B.

Section - A

(Compulsory)

1. (a) Describe the following terms : 6

(i) Protocol

(ii) WAN

(iii) Transmission Medium.

(b) Give two properties of a JavaScript language. 2

P.T.O.



(c) Differentiate between a static and a dynamic web page. 3

(d) Write a command to create a link to a web page in an HTML file. 2

(e) Write HTML statement to make "pic.jpg" as background picture of a web page. 2

(f) What is a twisted pair cable ? Differentiate between Category 3 and Category 5 twisted pair cables. 4

(g) What is the full form of HTTP ? In which layer HTTP protocol operates ? 2

(h) What is mesh topology ? Give *one* advantage and *one* disadvantage of mesh topology. 4

### Section - B

(Attempt any 5 questions)

2. (a) Compare the characteristic features of Hubs and Switches, based on the layers, these devices operate and the way these devices handle data transmission. 5

(b) Write a program in JavaScript, to accept  $n$  numbers from user to find their sum and average. 5

3. (a) What is microwave transmission ? Give *two* advantages of microwave communication over fiber. 5

(b) Write an HTML program to generate the following web page : 5

Academic Performance	
1.	Excellent
2.	Very Best
3.	Best
4.	Average
Other Qualities	
•	Socially Responsible
•	Polite
•	Helpful
•	Adaptive



4. (a) Write an HTML code to generate the following table : 5

Column 1	Column 2	Column 3
Row 1 Cell 1	Row 1 Cell 2	Row 1 Cell 3
	Row 2 Cell 2	Row 2 Cell 3
Row 3 Cell 1		

- (b) Give any *three* applications of internet. 3
- (c) Which function is performed by the "repeater". 2
5. (a) What are JavaScript datatypes ? Write about any *two* datatypes available in JavaScript. 5
- (b) List different layers of OSI reference model. Write about the functions performed by the network layer in the OSI reference model. 5
6. (a) What do you understand about the criteria like performance, reliability and security in a computer network. 5
- (b) Describe the term URL with its different parts ? How is it different from URI ? 5

1. (a) Differentiate between simplex, half-duplex, and full-duplex communication channel. 5
- (b) Describe the functions performed by the following HTML tags : 5
- (i) <HR>
- (ii) <IMG>
- (iii) <BR>
- (iv) <P>
- (v) <I> text </I>
8. Write short notes on the following (any *five*) : 10
- (a) Web Crawler
- (b) Search Engine
- (c) Increment and Decrement operators in JavaScript
- (d) Hypertext
- (e) Geosynchronous Satellite
- (f) Deep Web
- (g) Client server network
- (h) SMTP.