

Total No. of printed pages = 6



END SEMESTER EXAMINATION – 2019

Semester : 5th (New)

Subject Code : CO-501

INTERNET AND WEB TECHNOLOGY

Full Marks – 70

Time – Three hours

The figures in the margin indicate full marks for the questions.

Instructions :

1. Questions on PART – A are compulsory.
2. Answer any *five* questions from PART – B.

PART – A

Marks – 25

1. Fill in the blanks : 10×1=10
 - (a) IRC stands for _____.
 - (b) A host on the internet finds another host by its _____ address.
 - (c) A dial up connection enables to connect to ISP using a _____.

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- (d) Protocols that enables user to transfer data between computers that have different architectures and operating system is known as _____.
- (e) Collection of related computer webpages is called _____.
- (f) The Internet was originally a project of _____.
- (g) In the name <http://www.abc.com>, http is the name of _____.
- (h) IPv4 address is _____ bit long.
- (i) TFTP stands for _____ File Management Protocol.
- (j) Sliding window is a technique for _____ control.
2. State true or false : $10 \times 1 = 10$
- (a) Google is the most widely used Browser to search anything on Internet.
- (b) WWW is a repository of information linked together from points all over the world.

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- (c) Full form of URL is Uniform Resource Library.
- (d) Gmail is an example of search engine.
- (e) DNS is an Internet service that translates domain names to or from IP address.
- (f) A domain name defined in a URL is used to identify a specific computer on the internet.
- (g) Starting WWW file of a website is known to be current page.
- (h) 255.255.255.0 is the default subnet mask for class A IP.
- (i) HTML stands for Hyper Text Transfer Protocol.
- (j) In computer communication, FTP facility is used to transfer protocol.
3. Select the correct answer : $5 \times 1 = 5$
- (a) TCP is a _____ protocol.
- (i) Stream oriented
- (ii) Message oriented
- (iii) Packet oriented
- (iv) Block oriented

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(b) A firewall used in network security comes as _____.

- (i) Software
 - (ii) Hardware
 - (iii) Both Software and Hardware
 - (iv) None of the above
- (c) A piece of icon or image on a webpage associated with another webpage is called
- (i) URL
 - (ii) Hyperlink
 - (iii) Plugin
 - (iv) Browser.
- (d) What is a web browser ?
- (i) A program that can display webpage.
 - (ii) A program used to view html documents.
 - (iii) It enables user to access the resources of Internet.
 - (iv) All of the above.
- (e) AJAX stands for _____.
- (i) asynchronous JavaScript and xml.
 - (ii) advanced JSP and xml
 - (iii) asynchronous JSP and xml
 - (iv) advanced JavaScript and xml.

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PART - B
Marks - 45

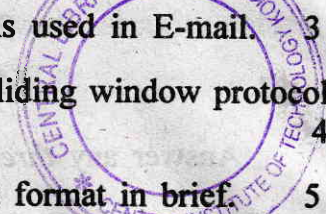
Answer any *three* questions from (4-7).

4. (a) What are the characteristics of TCP/IP reliable delivery service ? 3
- (b) Define FTP. How FTP clients work ? 4
- (c) What are the components of IRC ? Explain in brief. 5
5. (a) What is terminal emulation ? 3
- (b) Is UDP a reliable protocol ? Justify your answer. 4
- (c) Discuss five different types of Electronic Payment System. 5
6. (a) Define ISP. Explain different types of ISPs. 3
- (b) Explain the term HTML and SGML. Differentiate between HTML and SGML. 4
- (c) Write a JavaScript to find the Fibonacci series. 5

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7. (a) Name some protocols used in E-mail. 3
(b) Explain how does sliding window protocol work. 4
(c) Explain TCP segment format in brief. 5

Answer any *one* question from (8–9).

8. (a) Differentiate between web browser and search engine with example of each. 2
(b) Explain the term Active X. 2
9. (a) Write briefly about the HTML tags with example. 2
(b) What are the HTML tags used for listing items? Explain nested listing items. 2

Answer any *one* question from (10–12).

10. Design a webpage for displaying your biodata. 5
11. Write about B2B, B2C and C2C type E-commerce. 5
12. Write the working principle of a Search Engine. Name at least 4 search engines. 5