



## EXAMINATION PAPER

**FACULTY** : **COMPUTER SCIENCE AND MULTIMEDIA**

**COURSE** : **BACHELOR OF COMPUTER SCIENCE (HONS) (NETWORK TECHNOLOGY AND CYBERSECURITY) (BCS)**

**YEAR/ SEMESTER** : **FIRST YEAR / SEMESTER ONE**

**MODULE TITLE** : **INTERNET FUNDAMENTAL AND APPLICATIONS**

**CODE** : **IFA – 115**

**DATE** : **30 - APRIL, 2019, TUESDAY**

**TIME ALLOWED** : **3 HOURS**

**START** : **1:00 PM** **FINISH** : **4:00 PM**

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### **Instruction to candidates**

1. This question paper has THREE (3) Sections.
2. Answer **ALL** questions in Section A, MCQ.
3. Answer **5** questions in Section B, MSAQ.
4. Answer **2** questions in Section C, MEQ.
5. No scripts or answer sheets are to be taken out of the Examination Hall.
6. For Section A, answer in the OMR form provided.

***Do not open this question paper until instructed***

*(Candidates are required to give their answers in their own words as far as practicable)*

## SECTION A

### Multiple Choice Questions

(30\*1=30)

1. **What is internet?**
  - a. A single network
  - b. A vast collection of different networks
  - c. Interconnection of local area networks
  - d. None of the above
2. **Hub is required in the \_\_\_\_\_ topology.**
  - a. Star
  - b. Mesh
  - c. Bus
  - d. Ring
3. **A piece of icon or image on a web page associated with another webpage is called \_\_\_\_\_.**
  - a. plugin
  - b. url
  - c. hyperlink
  - d. none of the above
4. **The correct way of declaring variables in JavaScript is:**
  - a. var x, y, z;
  - b. int x, y, z;
  - c. int [x, y, z];
  - d. none of the above
5. **What is a web browser?**
  - a. A program that can display a web page
  - b. A program used to view html documents
  - c. It enables user to access the resources of internet
  - d. All of the above
6. **The data link layer concerns with:**
  - a. Bits
  - b. Frames
  - c. Packets
  - d. None of the above

7. What should be the table width, so that the width of a table adjusts to the current width of the browser window?
- a. 640px
  - b. 100%
  - c. Full-screen
  - d. 1024px
8. Which CSS property you will use if you want to add some margin between a DIV's border and its inner text?
- a. Spacing
  - b. Margin
  - c. Padding
  - d. Inner-margin
9. By default, hyperlinks are displayed with an underline. How do you remove the underline from all hyperlinks by using CSS code?
- a. `a {text: no-underline;}`
  - b. `a {text-decoration: none;}`
  - c. `a {text-style: no-underline;}`
  - d. `a {text-decoration: no-underline;}`
10. In the OSI model, as a data packet moves from the lower to the upper layers, headers are \_\_\_\_\_.
- a. added
  - b. rearranged
  - c. removed
  - d. all of the above
11. Identify the statement which cannot be associated with OSI model:
- a. A structured way to discuss and easier update system components
  - b. One layer may duplicate lower layer functionality
  - c. Functionality at one layer no way requires information from another layer
  - d. None of the above
12. OSI stands for:
- a. Open system interconnection
  - b. Operating system interface
  - c. Optical service implementation
  - d. All of the above

**13. TCP/IP model does not have \_\_\_\_\_ layer but OSI model have this layer.**

- a. Session layer
- b. Application layer
- c. Presentation layer
- d. Both 'a' and 'c'

**14. Which layer links the network support layers and user support layers?**

- a. Session layer
- b. Transport layer
- c. Network layer
- d. Data link layer

**15. URL is a term associated with:**

- a. Computer Hardware
- b. Internet
- c. Laser Printer
- d. Fax

**16. Documents converted to \_\_\_\_\_ can be published to the Web.**

- a. a doc file
- b. http
- c. machine Language
- d. html

**17. In computer, domain name is a text version of:**

- a. IP Address
- b. Username
- c. Hyperlink
- d. Web Address

**18. PHP stands for:**

- a. Process Hyper Text Periodically
- b. Hyper Text Preprocessor
- c. Preprocess Human Programs
- d. Printable Hyper Text Programs

**19. A piece of icon or image on a web page associated with another webpage is called:**

- a. url
- b. hyperlink
- c. plugin
- d. www.

**20. Domain for .com means:**

- a. Commercial
- b. Communication
- c. Control
- d. Convert

**21. HTTP, FTP, Telnet, DHCP are example of:**

- a. Physical layer
- b. Network layer
- c. Application layer
- d. Transport layer

**22. TCP (host-to-host) falls under which layer of OSI Layer.**

- a. Network Layer
- b. Data Link Layer
- c. Transport Layer
- d. Session Layer

**23. Optical fiber works under the principle of:**

- a. light
- b. wave
- c. total internal refraction
- d. total internal reflection

**24. Among the optical-distribution architectures that is essentially switched Ethernet is:**

- a. AON
- b. PON
- c. NON
- d. None of the above

**25. Star band provides:**

- a. Cable access
- b. Fifth internet access
- c. Satellite access
- d. Telephone access

**26. Home access is provided by:**

- a. DSL
- b. FFTP
- c. Cable
- d. All of the above

**27. ONT is connected to splitter using:**

- a. High speed fiber cable
- b. HFC
- c. Optical cable
- d. None of the above

**28. Which of the following is NOT a network edge device?**

- a. PC
- b. Smartphones
- c. Switch
- d. Servers

**29. \_\_\_\_\_ is a set of rules that governs data communication.**

- a. Protocols
- b. Standards
- c. RFCs
- d. All of the above

**30. Communication between a computer and a keyboard involves \_\_\_\_\_ transmission.**

- a. automatic
- b. simplex
- c. half-duplex
- d. full-duplex

## **SECTION B**

### **Short Answers Questions**

**Answer any five (5) questions out of eight (8) questions (5\*6=30)**

- 1.** State and briefly explain TCP/IP with suitable example of each phases.
- 2.** What is HTTP? Explain how HTTP communicates with browser and the web server with suitable diagram. (2+4)
- 3.** Define Email. Explain E-mail Header in brief. (2+4)
- 4.** What is computer network? Explain Star and Mesh Topology with proper diagram. (2+4)
- 5.** Write the concept of internet finger. Briefly explain the importance of internet finger.(2+4)
- 6.** State and explain FTP with its function.
- 7.** Define IRC. Discuss the IRC application in building IRC client. (2+4)
- 8.** Write short notes on (any two): ( 2\* 3)
  - a.** SMTP protocol
  - b.** POP3 protocol
  - c.** Internet

## **SECTION C**

### **Long Answer Questions**

**Attempt any two (2) questions out of three (3) questions**

**(2\*20=40)**

**1.**

- A.** Explain the significance and functions of Gopher protocol work. (10)
- B.** Write your understanding on internet wise application. Write down the procedure for adding, cut, copy, paste and undo support using the wise application. (5+5)

**2.**

- A.** Explain the OSI model along with the applications, devices and protocols related to it. (10)
- B.** Explain DNS and www briefly. (10)

**3.** Define windows socket. Discuss the different types of windows socket. How to build a window application frame work? Justify your answer with suitable examples. (2+8+10)

**\*\*\*BEST OF LUCK\*\*\***