Registration No.....

Bhartiya Skill Development University
School of IT & Networking
1st Semester / 1st In-Sem. Examinations
B. Voc. Program, Winter Semester (2017-18)

Course Code: ITN1001 **Time: 1 Hour**
Course Name; Introduction to Computers **Max. Marks: 20**

Instructions: Attempt All Questions.

Section-A **(5x1)= 05 Marks**

1. Integrated Circuits (ICs) are related to which one of the following generation of computers?
   A) First B) Second C) Third D) Fourth

2. The term gigabyte refers to which one of the following?
   A) 1024 bytes B) 1024 kilobytes C) 1024 megabytes D) 1024 gigabyte

3. Which one of the following is the father of modern computer?
   A) Garden Moore B) Blaise Pascal C) Charles Babbage D) None of these

4. Floppy Disk is an example of which one of the following?
   A) Primary Storage Device B) Secondary Storage Device
   C) Basic Storage Device D) Secondary Software Device

5. Devices used to receive data from central processing unit are classified as which one of the following?
   A) Output/Input devices B) Digital devices C) Signaled devices
   D) Output devices

Section-B **(3x2) = 06 Marks**

1. Convert the following:
   A) $(1011.0011)_2 = (\ldots\ldots\ldots\ldots)_{10}$ B) $(62745)_8 = (\ldots\ldots\ldots\ldots)_2$
2. Complete the following Operation:
   A) $(11111101)_2 + (101101)_2$ B) $(7465)_8 + (3425)_8$
3. Convert the following:
   A) $(3A1B)_{16} = (\ldots\ldots\ldots)_{10}$ $B)$ $(6248)_{10} = (\ldots\ldots\ldots)_8$

Section-C **(3x3) = 09 Marks**

1. Explain the third & fourth generations of computers. Write about their technical advancement.
2. Explain the working of AND, OR and NOT gate with Truth Tables.
3. Describe primary and secondary storage devices. Name any two primary and three secondary storage devices.

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ITN1002 Computer Assembling & Peripheral Installation **Time: 1 Hour**

Instructions: Attempt all questions. **Max. Marks: 20**

Section-A **(5x1)= 05 Marks**

1. 'RAM' stands for which one of the following?
   a. random access memory
   b. read access memory
   c. read arithmetic memory
   d. random arithmetic memory
2. Central Processing Unit (CPU) consists of which one of the following?
   a. control unit
   b. arithmetic and logic unit
   c. main store
   d. all of above
3. SMPS stands for which one of the following?
   a. Switched Mode Power Supply
   b. Simple Mode Power Supply
   c. Simple Make Power Supply
   d. Switched Make Power supply
4. Which one of the following is NOT an input device?
   a. Keyboard
   b. Mouse
   c. Motherboard
   d. Scanner
5. Which one of the following is not a peripheral hardware device on the computer?
   a. Keyboard b. Optical drive c. HDD d. Printer

Section-B **(3x2) =06 Marks**

1. Name 2 input devices on your mobile phone.
2. Name 2 output devices you use on your computer.
3. Describe device which provides computer system power.

Section-C **(3x3) = 09 Marks**

1. What is the difference between ROM and RAM?
2. Explain the different functions of a computer.
3. Explain any three components of the CPU.

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ITN1003 Internet Basics **Time: 1 Hour**

Max. Marks: 20

Instructions: Attempt All Questions.

Section-A (5x1) = 05 Marks

1. Which one of the following protocol is not used on the Internet?
   A) HTTP B) DHCP C) DNS D) TCP

2. Bluetooth is an example of which one of the following?
   A) Personal Area Network B) local area network
   C) Virtual Private Network D) Wide Area Network

3. Which one of the following was the father of the Internet?
   A) Chares Babbage B) Vint Cerf C) Denis Riche D) Martin Cooper

4. Technology used to provide internet by transmitting data over wires of telephone network is which one of the following?
   A) Transmitter B) Diodes C) HHL D) Digital Subscriber Line

5. Files on the website is transferred by using which one of the following protocols?
   A) HTTP B) ASCII C) FTP D) TCP

Section-B (3x2)= 06 Marks

1. What is the Internet? How is it different from World Wide Web?
2. What is a web browser? Name any four web browsers.
3. What is the difference between "Downloading" and "Uploading" of a file?

Section-C (3x3) = 09 Marks

1. Write a short note on History of the Internet (About ARPANET).
2. Why do we need a search engine? Name any three search engines.
3. What is E-mail? How can we create a Gmail account?

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ITN1004 Basics of Networking **Time: 1 Hour**

Max. Marks: 20

Instructions: Attempt all questions.

Section-A (5x1) =05 Marks

1.Which one of the following network has fastest data transfer rate?

a) LAN b) MAN c) WAN d) PAN

2.Which one of the following network devices works at Network layer?

a) Hub b) Switch c) Bridge d) Router

3.Which one of the following load is used at both end points in Bus topology?

a) 93 Ohm b) 50 Ohm c) 100 Ohm d) None of Above

4.Which one of the following is associated with the Physical Layer?

a) Frames b) Bits c) Bytes d) Packets

5.Which one of the following cables are used to join 10 PCs in the Lab?

a) Optical Fibre b) UTP c) STP d) Coaxial

Section-B (3x2) =06 Marks

1.Define IP address & its Class range also.

2.Define Protocol & its types.

3.Write about OSI layers and their functions .

Section-C (3x3)= 09 Marks

1.Calculate Subnets, Hosts, Subnet ID, Broadcast ID, Valid IP range for 192.168.5.6/26

2.Describe the types of Cables used for Transmission.

3.Show the different types of Network Topologies, with diagrams.

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ITN1005 Basics of Operating System **Time: 1 Hour**

Max. Marks: 20

Instructions: **Attempt all questions.**

Section-A **(5x1)= 05 Marks**

1. In which one of the following is the Bootstrap loader located?
   (a) Kernel
   (b) BIOS
   (c) Shell
   (d) Application Program

2. A text based command line interface in Windows is called which one the following?
   (a) Windows
   (b) Command Prompt
   (c) Editor
   (d) Desktop

3. For which one of the following DOS command, is MD used?
   (a) Compress the disk
   (b) Copy the files to the directory
   (c) Copy the contents of one directory into other directory
   (d) Create a new Directory

4. In which one of the following is the Kernel of the OS loaded?
   (a) Arithmetic Logical Unit and Control Unit
   (b) Read Only Memory
   (c) Hard Disk Drive
   (d) RAM

5. Which one of following is NOT a storage device?
   (a) RAM
   (b) ROM
   (c) Hard Disk Drive
   (d) Keyboard

Section-B **(3x2) =06 Marks**

1. What are DOS wild card characters? Give at least one example of each.
2. List any four elements of an Operating System.
3. What are the main Operating System functions?

Section-C **(3x3)=09 Marks**

1. With the help of a neat diagram, explain the layered architecture of an Operating System.
2. Write a note on the File System.
3. How many file attributes are there? Briefly explain each one of them.

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ITN1006 Network Devices **Time: 1 Hour**

Max. Marks: 20

Instructions: Attempt all questions.

Section-A **(5x1) =05 Marks**

1.Which one of the following connector is associated with UTP Cables?

a) RJ45 b) BNC c) SC d) ST

2.Which one of the following is the number of bytes in the MAC address of Network device?

a) 16 b) 32 d)48 e)64

3.Which one of the following is the number of broadcast domains associated with a 16-port Switch?

a) 1 b) 2 c)8 d)16

4. Which one of the following provide services to client computers.

a) Workgroup b) Server c) Both d) None of them

5.Which one of the following is a dedicated Server?

a) Linux b) Windows c) Novell d) None of them

Section-B **(3x2) = 06 Marks**

1.Why are Hubs not preferred in a network?

2.What is the advantage of a Peer to Peer network?

3.Differentiate between Dedicated & Non dedicated Servers.

Section-C **(3x3) = 09 Marks**

1.Design the layout of a Structured Cabling for 500 PCs.

2.Describe a Client Server Network.

3. Which is better, a Wired or Wireless network? Give reasons.