

Registration No: .....

**SCHOOL OF IT (Networking)**

**FIRST IN-SEMESTER EXAMINATION – 2017**

**SUMMER SEMESTER, B. VOC. PROGRAM**

**ITN1001 INTRODUCTION TO COMPUTERS**

**Time: 1 Hour**

**Instructions: Attempt All Questions.**

**Max. Marks: 20**

**Section-A Objective Type Questions**

**(5x1) Marks**

1. Which one of the following is the brain of a computer system  
A) ALU      B) Memory      C) CPU      D) Control Unit
2. Which of the following computer languages is used in artificial intelligence  
A) FORTRAN      B) PROLOG      C) C      D) COBOL
3. Which protocol provides e-mail facility among different hosts?  
A) FTP      B) SMTP      C) TELNET      D) SNMP
4. Who is considered the father of the modern computer?  
A) Gordon Moore      B) Blaise Pascal      C) Charles Babbage      D) None of these
5. Which one of the following memory is non-volatile?  
A) SRAM      B) ROM      C) DRAM      D) None of these

**Section-B Short-Answer Type Questions**

**(3x2) Marks**

1. Convert the following:  
A)  $(1011.0011)_2 = (\dots\dots\dots)_{10}$   
B)  $(1245)_{10} = (\dots\dots\dots)_2$
2. Solve the following Operations:  
A)  $(1101.1101)_2 - (1001.10)_2$   
B)  $(7461)_8 + (3465)_8$
3. Convert the following:  
A)  $(1A2B)_{16} = (\dots\dots\dots)_{10}$   
B)  $(4287)_{10} = (\dots\dots\dots)_{16}$

**Section-C Essay Type Questions**

**(3x3) Marks**

1. Explain the generations of computer. Write about their technical advancement.
2. Explain the working of AND, OR & NOT gate with Truth Table.
3. What is Computer Architecture? How is it characterized?

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**ITN1002 Computer Assembling & Peripheral Installation**

**Time: 1 Hour**

**Max. Marks: 20**

**Instructions: Attempt all questions**

**Section-A Objective Type Questions**

**(5x1) 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. None of the above
4. Which one of the following is NOT a type of motherboard expansion slot?
  - a. ISA
  - b. PCI
  - c. AGP
  - d. ATX
5. Data stored in a ROM cannot be changed by user of a computer.
  - a. TRUE
  - b. FALSE

**Section-B Short-Answer Type Questions**

**(3x2) Marks**

1. Name 3 input devices.
2. Name 3 output devices.
3. What gives your computer power?

**Section-C Essay Type Questions**

**(3x3) Marks**

1. Explain clearly the difference between CPU and ALU.
2. What is an SMPS? Explain in your own words.
3. Describe the different ports and explain what they are used for.

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**ITN1003 INTERNET BASICS**

**Time: 1 Hour**

**Max. Marks: 20**

**Instructions: Attempt All Questions.**

**Section-A Objective Type Questions**

**(5x1) Marks**

1. The first network that planted the seeds of Internet was:  
A) ARPANET B) Nafen C) Vnet D) None of these
2. The process of keeping addresses in memory for future use is called  
A) Routing B) Resolving C) Caching D) None of these
3. To join the internet, the computer must be connected to a  
A) Internet architecture board B) Internet society  
C) Internet service provider D) None of the above
4. Internet works on which one of the following?  
A) Packet switching B) Circuit switching C) Both (a) and (b) D) None
5. Which one of the following is the standard Internet protocol?  
A) Flash B) Java C) HTML D) TCP/IP

**Section-B Short-Answer Type Questions**

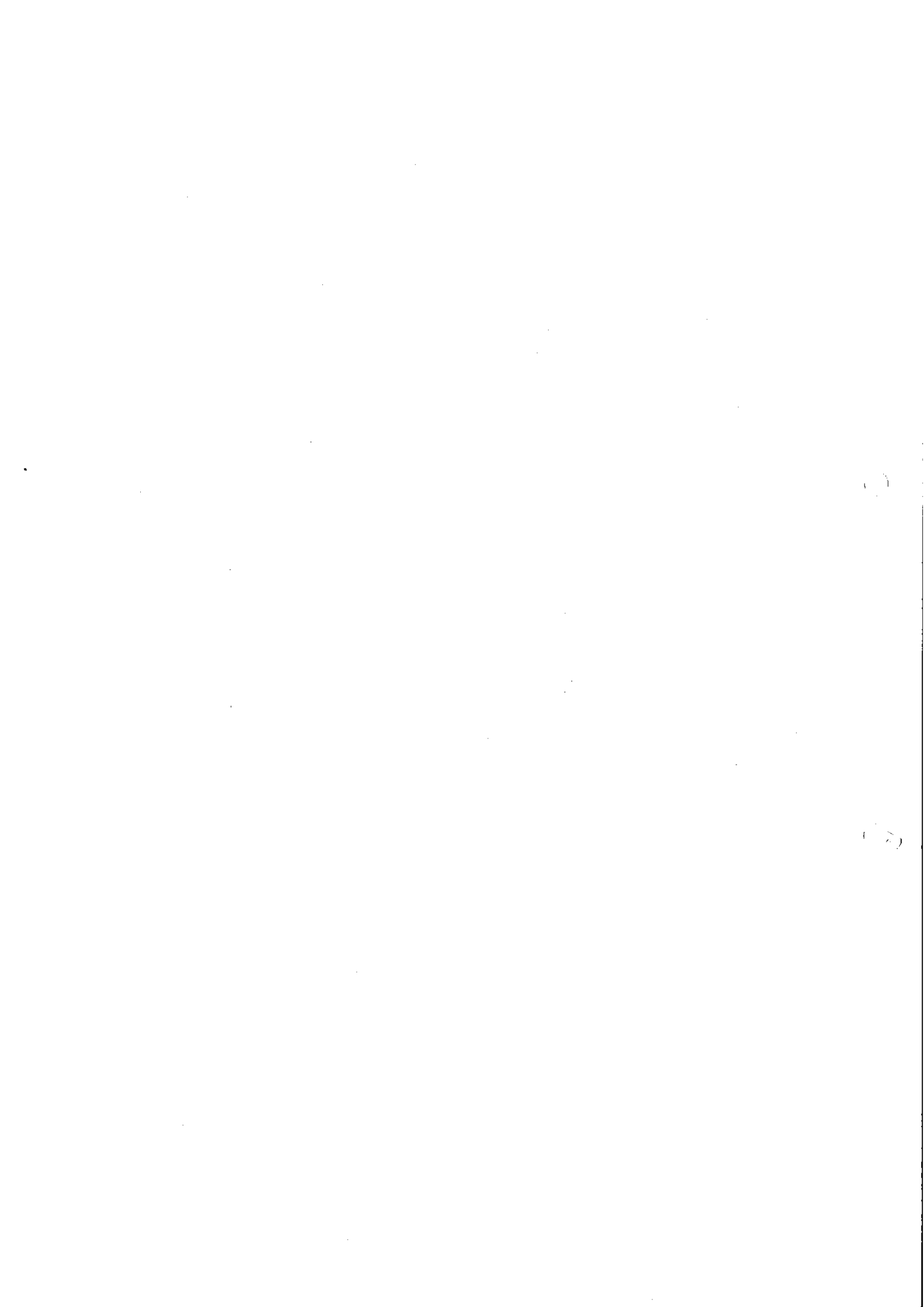
**(3x2) Marks**

1. What is the difference between the Internet and World Wide Web?
2. How can we find the IP address of Computer?
3. What is difference between “Downloading” and “Uploading” of a file?

**Section-C Essay Type Questions**

**(3x3) Marks**

1. What do you understand by ARPANET? How is it related to DARPA?
2. What is web hosting? What is bandwidth in Internet?
3. What is ipconfig? How are IP addresses arranged and displayed?



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**ITN1004 Basics of Networking**

**Time: 1 Hour**  
**Max. Marks: 20**

**Instructions: Attempt all questions.**

**Section-A Objective Type Questions**

**(5x1) Marks**

- 1.The network is divided into LAN, CAN, MAN, WAN according to  
(a) Configuration (b) Coverage area (c) Topology (d) Cost
- 2.The physical layer is concerned with the Transmission of  
(a) Programs (b) Protocols (c) Bits (d) Dialogs
- 3.Bus Topology uses which one of the following cables for connection  
(a) UTP (b)10Base –T (c) 100Base –TX (d) Coaxial
- 4.The range of RF frequency in Electromagnetic Spectrum is  
(a) 10KHz-100MHz (b)100KHz-1000MHz (c)1MHz-1GHz (d) 1MHz-10GHz
- 5.The maximum cable length of the UTP cable is  
(a) 10 meters (b)100 meters (c)1000 meters (d) 500 meters

**Section-B Short-Answer Type Questions**

**(3x2) Marks**

- 1.Differentiate between UTP & STP Cables.
- 2.Define Modulation & its types.
- 3.Give the diagram of the TCP/IP Model for networks.

**Section-C Essay Type Questions**

**(3x3) Marks**

- 1.Describe OSI Model and give functions of any two layers.
- 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**

**Instructions: Attempt all questions.**

**Max. Marks:20**

**Section-A Objective Type (MCQ) Questions**

**(5x1) Marks**

1. Which one of the following parses a user command  
(a) Kernel  
(b) BIOS  
(c) Shell  
(d) Application Program
2. Which one of the following is the text based command line interface in Windows  
(a) Windows  
(b) Command Prompt  
(c) Editor  
(d) Desktop
3. The DOS command CD is used for which one of the following  
(a) To Compress the disk  
(b) To Copy the files to the directory  
(c) to Change the Directory  
(d) To copy the contents of more than one directory at a time and retain directory structure
4. CPU comprises of which one of the following  
(a) Arithmetic Logical Unit and Control Unit  
(b) Read Only Memory  
(c) Hard Disk Drive  
(d) BIOS
5. Which one of the following is an auxiliary storage device  
(a) RAM  
(b) ROM  
(c) Hard Disk Drive  
(d) Keyboard

**Section-B Short-Answer Type Questions**

**(3x2) Marks**

1. What are internal and external commands? Give at least one example of each command.
2. Write full form of BIOS and write why it is important.
3. Explain what you understand by "word length of a CPU".

**Section-C Essay Type Questions**

**(3x3) Marks**

1. With the help of a neat diagram, explain the layered architecture of an Operating System.
2. Explain the process of booting the operating system.
3. What is disk partitioning and files system creation?

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**ITN1006 Network Devices**

**Time: 1 Hour**  
**Max. Marks: 20**

**Instructions: Attempt all questions.**

**Section-A Objective Type Questions (5x1)**  
**Marks**

1. Which one of the following protocol is/are defined in Transport layer?  
a) FTP                      b) TCP                      c) UDP                      d) both b) and c)
2. Which one of the following are the connectors used with Optical Fiber Cable  
a) RJ11      b) RJ45      c) SC/ST/LC      d) RG8/RG58
3. How many bits is the MAC of your machine?  
a) 8              b) 16              c) 32              d) 48
4. Which one of the following is the Collision Domains for a 16 port Switch  
a) 8              b) 32              c) 16              d) 48
5. Which one of the following Class provides a 65534 host address.  
a) A              b) B              c) C              d) D

**Section-B Short-Answer Type Questions (3x2) Marks**

1. Why are Hubs not preferred in a network?
2. What are the uses of Straight Through & Cross UTP Cable in a network?
3. Differentiate between Hubs & Switches.

**Section-C Essay Type Questions (3x3) Marks**

1. Show the layout of a Structured Cabling.
2. What are the different classes of IP Addresses. Give their ranges.
3. Which is better a Wired or Wireless network? Give reasons

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