

# MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2016/2017

FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR THE SCHOOL OF PUBLIC HEALTH, DEVELOPMENT STUDIES, AGRICULTURE & FOOD SECURITY AND SCHOOL OF ARTS WITH INFORMATION TECHNOLOGY

**MAIN CAMPUS - GROUP 1** 

## UCI 101: FOUNDATIONS OF INFORMATION TECHNOLOGY

Date: 28th November, 2016

Time: 8.30 - 11.30 am

#### **INSTRUCTIONS:**

Answer question ONE and any other TWO questions.

### QUESTION 1 (Compulsory, 30 Marks)

The basic operations performed by a computer are: A) Arithmetic operation B) Logical operation C) Storage and relative D) All the above Microprocessors as switching devices are for which generation computers A) First Generation B) Second Generation C) Third Generation D) Fourth Generation ii. The brain of any computer system is iii. A) ALU B) Memory C) Control unit D) CPU A) Primary and secondary B) Random and sequential C) A and B B) ROM and RAM The two kinds of main memory are: iv. To produce high quality graphics (hardcopy) in color, you would want to use a/n A) RGB monitor B) Laser printer C) Ink-jet printer D) Plotter ٧, A) 1 second B) 10<sup>th</sup> of a seconds Ø) 10000<sup>th</sup> of a seconds D) 1000<sup>th</sup> of a seconds One millisecond is vi. The output quality of a printer is measured by A) Dot per sq. inch B) Density per inch C) Dots printed per unit time D) Dot per inch vii. Which of the following is not an input device? A) OCR B) Optical scanners C) Voice recognition device D) COM (Computer Output to viii. Microfilm) Regarding a VDU, which statement is more correct? A) It is an output device B) It is an input device C) It is hardware item D) It is a peripheral ix. Which of the following produces the best quality graphics reproduction? A) Laser printer B) Ink jet printer C) Dot matrix printer D) Plotter х. Which of the following is not processing? A) arranging B) manipulating C) calculating D) gathering xi. A) Reduces the capabilities of the hardware B) Increases the speed of central processing Software in computer xii. unit C) Does not interact with the hardware D) Enhances the capabilities of the hardware The arranging of data in a logical sequence is called A) Summarizing B) Classifying C) Reproducing D) Sorting xiii. Instructions and memory address are represented by A) Character code B) Parity bit C) Binary word D) Binary codes xiv. Which generation of computer is still under development A) Second Generation B) Third Generation C) Fourth Generation D) Fifth Generation XV. Each set of Napier's bones consisted of \_\_\_\_\_ rods. xvi. A) 3B) 5C) 9D) 11 Properly arranged data is called A) Field B) Words C) File D) Information xvii. A) A complicated circuit B) An integrating device C) Much costlier than a single transistor An integrated circuit is xviii. D) Fabricated on a tiny silicon chip The term gigabyte refers to A) 1024 bytes B) 1024 kilobytes C) 1024 petabytes D) 1024 megabytes xix. A byte consists of A) One bit B) Four bits C) Sixteen bits D) Eight bits XX.

xxi.	Which of the following memory medium is not used as main memory system?  A) Magnetic core B) Semiconductor C) Magnetic tape and semiconductor D) Magnetic
	A) Magnetic core B) Semiconductor C) Wagnetic tape and Some
	tape
xxii.	computers are also called personal computers  Computers D) Micro Computers
	A) Mainframe Computer B) Mini Computers C) Super Computers D) Micro Computers
xxiii.	Which one is the largest space?
	A) kilobyte B) gigabyte C) terabyte D) petabyte
XXIV.	The BIOS is the abbreviation of  A) Base Input Output System B) Best Input Output System C) Basic Input Output Symbol
	A) Base Input Output System B) Best input Output System O) Base
	D) Basic Input Output System
XXV.	Operating system, editors, and debuggers comes under?  A) Custom Software B) Application Software C) Utility Software D) None of the above
	A) Custom Software B) Application 301(wate C) Outris
xxvi.	The earliest calculating devices are
	A) Stepped Reckoner B) Clock C) Difference Engine D) Abacus
xxvii.	Which unit converts computer data into human readable form?
	A) Control Unit B) ALU C) Input unit D) Output unit
XXVIII.	The full form of ALU is  A) Asymmetric Logic Unit B) Array Logic Unit C) Application Logic Unit D) None of
	above
xxix.	What produces useful information out of data?  A) Computer B) CPU C) Programming D) Processing
	The term GIGO relates to which characteristics of computers?
XXX.	A) Speed B) Automation C) Reliability D) Accuracy
	A) Speed D) Administrat C) transcent of the second of the

#### SECTION B

#### **QUESTION 2**

- List and describe the five components of a computer (5 Marks)
- How Is System Software Different from Application Software? (5 Marks) ĩi.
- What are the advantages and disadvantages that users experience when working with Computers? iii.
- What is the purpose of an IP address, and what is its relationship to a domain name? (5 Marks) iv.

#### **QUESTION 3**

- Name five categories of computer users (5 Marks) i.
- Name any five embedded systems (5 Marks) ii.
- State and explain any five functions of an operating system (10 Marks) iii.

#### **QUESTION 4**

- Name any three modern desktop operating systems (3 Marks) i.
- Differentiate between Data and Information (2 Marks) ii.
- Using a diagram, explain the functional organization of computer hardware systems (10 marks) iii. iv.
- What is the role of each element in an Information System? (5 Marks)

#### **QUESTION 5**

- What is a bit, and how does a series of bits represent data? (5 Marks) i.
- Give any five qualities of valuable information (10 Marks) ij.
- How does society use computers in Education, Finance, Government, Health Care, Spience, iii. Publishing, Travel, and Manufacturing? (5 Marks)