# UNIVERSITY OF EDUCATION "UExam" Semester-IV, 2019 BS Chemistry Session:2017-21

Course Code: COMP1111

Subject: Introduction to Information Technology

**SECTION: I (MCQ's)** 

Time Allowed: 20 Minutes

Max. Marks: 18

NOTE: Encircle the correct/ best answer in each of the followings. Each Question carries 1 mark. Use of remover carries zero mark. Cutting and Overwriting is not allowed.

Q1.

•	Horizontal	cells	in	excel	are	termed	as
		18.1					

a)rows b)columns c)tables d)all

Which part of the computer is used for calculating and comparing?

a)ALU

b)CU

c)ROM

d)none

A byte consists of

b)4 bits a)2 bits

c)8 bits

d)none

BCD is

a)Binary coded decimal

b)Bit coded decimal

c)Binary coded digit d)none

No.

Roll No. (in fig.)\_

Roll No. (in words)\_

Candidate's Signature.

Signature of Addl. Supdt.

As compared to the secondary memory, the primary memory of a computer is

a)Large

b)Cheap

c)Fast

d)Slow

Bit stands for

b)Bin dot a)Binary Digit

c)both

c)driver

d)none

Programs designed to perform specific tasks is known as

a)application software

b)OS

· Which shortcut key is used to paste copied data

a)Ctrl+C

b) Ctrl+V

c) Ctrl+P

d) Ctrl+O

• The term gigabyte refers to

a)1024 bytes

b)1024 KB

c)1024 MB

d)1024 GB

A name or number used to identify a storage location is called

b)Byte

c)Address

d)All

An application program that helps the user to change any number and immediately see the result of that change is

a) Word

b) Excel

c)Access

c)ROM

d)Outlook

d)none

The ALU of a computer normally contains a number of high speed storage element called

b)RAM

A factor which would strongly influence a business person to adopt a computer is its

b)Reliability d)All c)Speed a)Accuracy

Which is the type of memory for information that does not change on your computer?

a)RAM

b)ROM

c)Disk

d)none

A 32 bit microprocessor has the word length equal to?

a)2 bytes

b)4 bytes

c)6 bytes

d)8 bytes

Interface electronic circuit is used to interconnect I/O devices to a computer's CPU or

a)ALU

b)Memory

c)Buffer

d)Register

Which of the following registers is used to keep track of address of the memory location where the next instruction

is located?

a)MAR

b)MBR

c)IR

d)PC

To locate a data item for storage is

a)field

b)feed

c)database

d)fetch

# UNIVERSITY OF EDUCATION "UExam" Semester-IV, 2019 BS Chemistry Session:2017-21

Course Code: COMP1111

Subject: Introduction to Information Technology

Time Allowed: 100 Minutes.

Max. Marks:

42

#### Section II (Short Answer)

#### Q.2- Write short answers of the following.

3x6 = 18

- I. Write shortcut keys for copying and pasting data.
- II. Write formula to find sum of marks obtained by a student in different subjects.
- III. What are advantages of cyber security?
- IV. What is primary storage?
- V. Define browser.
- VI. Why is ChemSketch used?

# Section III (Essay Type)

6x4 = 24

# Answer the following Questions

- Q. 3. Discuss basic services of the internet.
- Q. 4. What are different types of cyber-crime? Explain briefly any two.
- **Q.** 5. Differentiate between system and application software.
- a. 6. Describe basic organization of computer system.

#### UNVERSITY OF EDUCATION "UExam" Semester-II, 2019 BS Mathematics, Session:2018-2022 No. \_\_\_ Course Code: COMP1113 Roll No. (in fig.)\_ Subject: Computing Tools for Mathematics Roll No. (in words)\_ SECTION: I (MCQ's) Time Allowed: 15 Minutes Max. Marks: 12 Candidate's Signature. NOTE: Encircle the correct/ best answer in each of the followings. Each Question carries 1 mark. Use of remover carries zero mark. Cutting and Signature of Addl. Supdt. Overwriting is not allowed. Q1. • In MATLAB, the notation for element by element 'Right Division' is: (c) /. (b) / In MATLAB, p less than or equal to q is written as: (c) p <= q (d) p =< q(b) $p \leq q$ (a) p < q To comment a command in MATLAB, the symbol used: (d) %% (c) \$\$ (b) \$ If step size is not specified then \_\_\_\_\_ is taken as default value of step size: (c) 2 (b) -1• If x and y are the initial and final values and 0.05 is step size then the step size in MATLAB is expressed as: (a) x; 0.05; y (b) x: 0.05: y (c) x, 0.05, y (d) x \* 0.05 \* y• $y = \sqrt{x}$ can be written in MATLAB as: (a) $y = \sqrt{x}$ (b) $y = x^{1/2}$ (c) y = sqrt(x)• If A is a matrix of order 5. The command A(2,:)=[] will. (a) remove 2<sup>nd</sup> row (b) remove 2<sup>nd</sup> column (c) 2<sup>nd</sup> row and column (a) remove 2<sup>nd</sup> row (d) none of above If A is an 3 × 1 array, then A(2) is: (b) The function evaluated at 2 (a) The second entry in column vector (c) The second entry in row vector (d) A times 2 Which of the following MATLAB expression gives −1: (c) $cos(\pi)$ (d) None (b) cos(pi) (a) cos(180) • Formula for Area of circle in MATLAB: (a) $\pi * r^2$ (b) $\pi * r * r$ (c) pi \* r \* r(d) None • If $A = \begin{bmatrix} 6 & 7 \\ 8 & 9 \end{bmatrix}$ the resulting matrix is: (a) $\begin{bmatrix} 6 & 7 \\ 8 & 9 \end{bmatrix}$ (b) $\begin{bmatrix} 6 & 8 \\ 7 & 9 \end{bmatrix}$ (c) $\begin{bmatrix} 6 & 8 \\ 9 & 7 \end{bmatrix}$ None

• The column matrix  $\begin{vmatrix} 3 \\ 4 \end{vmatrix} = - - -$ 

(a) [3;4;5] (b)  $A = [3 \ 4 \ 5]$  (c) A = [3;4;5;] (d) A = [3,4,5]

# UNVERSITY OF EDUCATION

### "UExam" Semester-II, 2019 BS Mathematics, Session:2018-2022

Course Code: COMP1113

**Subject: Computing Tools for Mathematics** 

Time Allowed: 75 Minutes

Max. Marks: 30

#### Section II (Short Answer)

Q.2- Write short answers of the following.

3x5 = 15

- i. Use Matlab command to find the volume of sphere of radius 2m.
- ii. Define the following commands

(i) fix (ii) ceil (iii) sort (iv) ones

iii. Use Matlab command to find the magnitude of vector J=[0 3 4]..

iv. Evaluate the product of polynomials (s+3), (s+6) and (s+2).

v. Find the sum of the series  $1 + r^1 + r^2 + r^3 + \cdots$  for  $r = \frac{3}{2}$  and n = 30

#### Section III (Essay Type)

# Answer the following Questions

6x3 = 18

- Q.3:- Use Matlab to compute  $\lim_{\emptyset \to \frac{\pi}{2}} \frac{\cos \emptyset}{1 + \sin \emptyset}$
- Q.4: Write a Matlab program to find the nature of the roots  $3x^2 4x + 5 = 0$
- Q.5:- Write a program to find the tri-diagonal matrix of order 15x15