Bachelor of Computer Application
Sixth Semester Main Examination, Aug-Sep 2020
Computer Graphics & Multimedia [BCA601T]

Time: 3:00 Hrs   **Max Marks 50**

Note : Attempt all questions.
          All questions carry equal marks.

Q.1   (a) Describe raster graphics fundamental.

         (b) What do you mean by plasma panel in computer graphics?
                                      OR
         (a) Write application of computer graphics.

         (b) Write short notes of-
         i)   Pixel
         ii)   Frame
         iii)   Buffer

Q.2   (a) Describe algorithms for line generation.

         (b) Write about polygene generation.
                                      OR
         (a) What do you mean by ant aliasing?

         (b) Write about homogenous co-ordinate.

Q.3   (a) Describe 3-D transformation.

         (b) What do you mean by windowing & clipping windows?
                                      OR
         (a) Write window and view port transformation

         (b) Describe segment table & segment creation.

Q.4   (a) Describe animating text and hypertext.

         (b) What do you mean by MCI multimedia control interface?
                                      OR
         (a) Write cocept of 3-D modeling.

(b) Describe digital audio leases.

Q.5   (a) What is Computer Graphics? Explain with example.

(b) What do you mean by multimedia?

OR

(a) Write short notes on-

i) Printers & plotters
ii) Shooting and editing board
iii) Track ball
iv) Digital camera

<u>**Time: 3:00 Hrs**</u>   **Max Marks 50**

Note : Attempt all questions.
All questions carry equal marks.

Q.1   (a) Explain floating point numbers.
       (b) What are normalize and their consequence?

OR

       (a) Write note on Bisection method.
       (b) Explain with example Newton Raphson.

Q.2   (a) What is liner equation?
       (b) Explain gauss method?

OR

       (c) What is curve fitting method?
       (d) Explain non linear curve fitting.

Q.3   (a) Write note on forward, backward shifting.
       (b) Explain Lagrange's interpolation formula.

OR

       (c) Define operator and their relationships.
       (d) Give the program with C language using operator.

Q.4   (a) Write note on Newton's forward interpolation.
       (c) Explain Simpson's three eight (3/8) rule.

OR

       (c) What is numeric integration?
       (d) What is numeric differentiation?

Q.5   (a) Write note on Eule's method.
       (b) What is Picard's methods?
                              OR
       (a) Explain Runga Kutta Second order & Fourth order method.
       (b) Explain Tailor's Series method.

Bachelor of Computer Application
Sixth Semester Main Examination, Aug-Sep 2020
Microprocessor & Assembly Language Programming [BCA603T]

Time: 3:00 Hrs   **Max Marks 50**

Note : Attempt all questions. All questions carry equal marks.

Q.1   (a) Describe Architecture of 8085.
       (b) How to organize CPU.
                              OR
       (a) Write various addressing modes.
       (b) Write about Microprocessor.

Q.2   (a) Describe assembly language.
       (b) Write about instruction & data follow?
                              OR
       (a) What do you mean by instruction of 8085?
       (b) What do you mean by programming?

Q.3   (a) Write about memory ruler facing.
       (b) What do you mean by address space partitioning?
                              OR
       (a) Write interfacing techniques with various I/O Devices.
       (b) Discuss in brief about latches.

Q.4   (a) What is interfacing device.
       (b) What is programmable peripheral 8155 & 8255?
                              OR
       (a) Write short note on buffer.
       (b) Describe keyboard controller 8279.

Q.5   (a) Describe Microcontroller.
       (b) List the 8085 Flags.
                              OR
       (a) Differentiate between Microprocessor and Microcontroller in detail.
       (b) Write application of microcontroller.

Bachelor of Computer Application
Sixth Semester Main Examination, Aug-Sep 2020
Principles and Practices of Management [BCA604T]

**Note: Attempt all questions. Attempt any two parts of each question.
All questions carry equal marks.**

Q.1   (a) Explain nature of management.
       (b) Define functions of manger.
                              Or
       (a) Explain scientific management.
       (b) Define contingency theory of management.

Q.2   (a) What is planning?
       (b) Define nature & purpose of planning.
                              Or
       (a) Write note on forecasting.
       (b) Explain decision making process.

Q.3   (a) What is organization?
       (b) Explain delegation of authority.
                              Or
       (a) Explain nature of organizing.
       (b) What is departmentation?

Q.4   (a) What is directing process?
       (b) Explain the problem of human relation.
                              Or
       (a) Write note on principles of direction.
       (b) What is the strategy for establishing healthy human relation?

Q.5   (a) Give the meaning of control.
       (b) What is the process of control?
                              Or
       (a) Explain the type of control techniques.
       (b) Explain the need & Important of control in an organization.