

देवी अहिल्या विश्वविद्यालय, इंदौर से सम्बद्ध

**Exam-center: Prof. Brijmohan Mishra Institute of Medical & Technical
Sciences, burhanpur(mp)**

नियमित(Regular) विद्यार्थियों के लिए

BCA Examination October-(2019-20)(ATKT)

Class: BCA-VI SEMESTER

Paper- Computer graphics & multimedia

Note: Attempt all the five Questions. All questions carry equal Marks.

1. Explain differences between Raster and vector graphics with suitable examples?
2. Write applications of computer graphics with its usage in various fields? And what do you understand by graphic primitives?
3. What do you mean by navigation in web site? Also Explain different text level formatting in HTML with example
4. What is importance of 2D transformation. Give the homogeneous coordinate matrix for reflection, rotation, translation and scaling?
5. Explain any five input devices? Also discuss recording formats with examples?

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Paper- Computer oriented numerical methods

Note: Attempt all the five Questions. All questions carry equal Marks.

1. How a floating point number is stored in the memory of a computer? Discuss with examples the procedures of four basic arithmetic operations using normalized floating point numbers.
2. What do you mean by roots of equations? By using newton raphson method find the root $x^4 - x - 10 = 0$ which is near to $x = 2$, correct to three places of decimal?
3. Write an algorithm for solving simultaneous equations using Gauss Jordan method?
4. Write Simpson and trapezoidal formula. Also write a program in C to find the solution of ordinary differential equations using Euler's method?
5. Use Picard's methods to solve the differential equation:

$$\frac{d^2y}{dx^2} = x^3 \left(\frac{dy}{dx} + y \right)$$

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Paper- Microprocessor & Assembly language programming

Note: Attempt all the five Questions. All questions carry equal Marks.

1. Explain microprocessor. Draw internal diagram of 8085 microprocessor to show its all internal block units.
2. Write various addressing modes of 8085 and also make pin-out diagram for it?
3. What do you mean by machine language. Write an assembly program to find smallest number among series of five numbers available from 2000H onwards. Store the result at 3000H
4. Make the pin out diagram of 8255. What are the applications of 8155 IC.
5. Draw the block diagram of 8051. Explain its components in brief?