

**BE Semester-III (Civil) Question Bank**  
**(Computer Programming in Civil Engineering)**

**All questions carry equal marks (10 marks)**

Q.1	Draw neat sketch diagram of computer hardware rganisation.
Q.2	Define flow chart and explain its necessity. Draw sketches used for drawing flow charts
Q.3	Differentiate software and hardware. Classify both.
Q.4	What is operating system. What are functions of operating systems. Give names of at least five operating systems.
Q.5	What is algorithm. Explain importance of algorithm.
Q.6	Draw flow chart for finding factorial of given integer number with computer program
Q.7	Write algorithm for finding solution of quadratic equation using computer program
Q.8	Explain switch statement of c language, with suitable example.
Q.9	Explain constants and variables and their types.
Q.10	Explain rules to decide the name variables in c language.
Q.11	Explain importance of comment statement and write syntax of it.
Q.12	Differentiate syntax error, logical error and run time error.
Q.13	Differentiate source program and executable program.
Q.14	Explain the syntax of if-elseif-else ladder with suitable example. Differentiate continue and break statement.
Q.15	Explain syntax of <b>for</b> statement with suitable example.
Q.16	Enlist the control transfer statements of c language. Classify them in entry control and exit control statement.
Q.17	Define header files and their importance.
Q.18	Write c program to find mean and standard deviation of 20 years rainfall data.
Q.19	Write c program to calculate reduced levels of ground points for which we have sights, B.M., height of Instrument.
Q.20	Write c program to calculate the discharge through pipe for given diametr of pipe and velocity of flow.
Q.21	Write a c proram to work out maximum and minimum stress on column for given data of vertical load, ecentricity and cross sectional area of column.
Q.22	Write c program to multiply two matrix of 3 X 3.
Q.23	Write a c program to find factorial of given integer number.
Q.24	Write a c program to find solutions of quadratic equations.
Q.25	Explain characteristics and functionality of spreadsheet.
Q.26	What are different programs under <b>office</b> package.
Q.27	Write c program to add two matrix of same dimensions.
Q.28	Write different input and output statements of c language.
Q.29	Write syntax of go to statement of c language.
Q.30	Write syntax of switch and case statement.
Q.31	Explain the softwares used for civil engineering applications.
Q.32	Write c program to compute the discharge through open channel for given values of bed slope, Mannings constant, dimensions of side slope, depth

	and bottom width of channel.
Q.33	Describe various formats used for different types of variable and constants in input and output statements.
Q.34	Write a c program to compute the area of a circle.
Q.35	Write a c program compute value of $C=A \times B$ , using sub-program.
Q.36	What do you mean by the type casting. Explain with example of arithmetic equation.
Q.37	Explain the hierarchy of operation in an equation containing brackets, division, multiplications, addition and subtractions.
Q.38	Differentiate ROM and RAM
Q.39	Explain the units of measurement of memory and speed of the computer
Q.40	Explain the computer peripherals and their functions.