

ಸಂಕೇತ ಸಂಖ್ಯೆ : 74

CCE RR

Code No. : 74

ವಿಷಯ : ಎಲಿಮೆಂಟ್ಸ್ ಆಫ್ ಕಂಪ್ಯೂಟರ್ ಸೈನ್ಸ್

Subject : ELEMENTS OF COMPUTER SCIENCE

(ಹೊಸ ಪಠ್ಯಕ್ರಮ / New Syllabus)

(ಪುನರಾವರ್ತಿತ ಶಾಲಾ ಅಭ್ಯರ್ಥಿ / Regular Repeater)

General Instructions :

- i) The Question-cum-Answer Booklet consists of 9 objective and subjective types of questions.
- ii) Space has been provided against each objective type question. You have to choose the correct choice and write the complete answer in the space provided.
- iii) For subjective type questions enough space for each question has been provided. You have to answer the questions in the space.
- iv) Follow the instructions given against both the objective and subjective types of questions.
- v) Candidate should not write the answer with pencil. Answers written in pencil will not be evaluated (Except Graphs, Diagrams & Maps).
- vi) In case of Multiple Choice, Fill in the blanks and Matching questions, scratching / rewriting / marking is not permitted, thereby rendering to disqualification for evaluation.
- vii) For reading the questions 15 minutes of extra time has been provided.
- viii) Do not write anything in the space provided in the right side margin.

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[Turn over

Note : Answer *all* the questions.

1. Fill in the blanks with the correct symbol/word(s) by selecting from the choices given in the brackets : 10 × 1 = 10
- i) All operations of a computer can be controlled by
(*CU, CPU, ALU*)
- ii) The longest key on the keyboard is
(*space bar, del, tab*)
- iii) MS-DOS is an example of
(*machine language, operating system, system software*)
- iv) Symbolic representation of a program is
(*algorithm, flowchart, code*)
- v) An identifier whose value does not change throughout the program is called
(*constant, underscore, comment*)
- vi) The escape character used for tab setting is
(*\n, \f, \t*)
- vii) Any expression whose output is either true or false is known as
(*relational expression, logical expression, arithmetic expression*)
- viii) An unconditional branching system is
(*if... else, goto, for*)
- ix) The library function used to find the power of a number is
(*sqrt, tan, pow*)
- x) The variable declared inside any function is termed as
(*global variable, local variable, integer variable*)
2. a) What is a computer ? 2

- b) List the uses of computers. 4
- c) Define CPU and name the parts. 4
3. a) Define software. 2
- b) Explain input and output devices. 4
- c) Draw a neat layout diagram of keyboard and label the parts. 4
4. a) Define algorithm. 2
- b) Write algorithm and flowchart to find the average of three numbers. 4
- c) How are the computer languages classified ? 4
5. a) What do you understand by 'C' language ? 2
- b) Define C character set and mention the types. 4
- c) Convert the following mathematical expressions into equivalent C expressions : 4
- i) $P = \frac{AC}{B} - \frac{CD}{A}$ ii) $S = A + \frac{B}{C} - D$
- iii) $S = P - \frac{CA}{B}$ iv) $P = \frac{B^2}{A-B} + CD$
6. a) Define data type. Which are the different data types ? 5
- b) Write a program to check the given number is positive (+ve). 5
7. a) Find the value of the following expressions when $A = 3$, $B = 5$ and $C = 2$. 4
- i) $S = (A + B) / C$ ii) $S = B * C / A$
- iii) $S = A + B - C$ iv) $S = B / A$
- b) Write a program to find the student result whether it is first class, second class, pass or fail when the maximum marks are 825. 6
8. a) What is a statement ? List any two types of statements. 4
- b) Write a C program to find reverse order of given numbers. 6
9. a) Write short notes on the following : 4
- i) Library function
- ii) E-mail.
- b) Write a program to calculate the area of triangle of given base and height. 6