

2023

Time : 3 hours

Full Marks : 60

*Candidates are required to give their answers
in their own words as far as practicable.*

The figures in the margin indicate full marks.

Answer any five questions in

which question no 1 is compulsory.

1. Choose the correct answer : $1 \times 12 = 12$

(i) BASIC is a _____ computer
programming language.

~~(a)~~ high level

(b) low level

(c) middle level

(d) none of these.

(ii) END statement in a BASIC programme
is the _____

(a) first statement

~~(b)~~ last statement

(c) closing remarks

(d) none of these

(iii) SIN in BASIC programming language is
a _____

(a) constant

~~(b)~~ variable

(c) number

(d) none of these

(iv) Relational operators are used to _____

~~(a)~~ compare two quantities

(b) add two quantities

- (c) compare and multiply two quantities
- (d) none of these
- (v) Which of the following is not a library function in BASIC programming language?
- (a) SQR
- (b) LOG
- (c) EXP
- (d) REM
- (vi) ASCII is _____
- (a) American standard code for information interchange
- (b) American standard computer for information interchange
- (c) American state code for information interchange

- (d) None of these
- (vii) In computer memory, information or data is stored in_____
- (a) binary digits
- (b) hexadecimal digits
- (c) octal digits
- (d) none of the these
- (viii) What is $(10101010)_2$ in decimal?
- (a) 172
- (b) 170
- (c) 160
- (d) None of these
- (ix) What is $(67)_{10}$ in binary?
- (a) 1000011
- (b) 111111
- (c) 101111
- (d) None of these

(x) RAM is :

- (a) random access memory
- (b) random allowed memory
- (c) random available memory
- (d) None of these

(xi) Mouse is :

- (a) output device
- (b) input device
- (c) external device
- (d) None of these

(xii) REM is _____

- (a) executable statement
- (b) non-executable statement
- (c) terminal statement
- (d) None of these

2. What is ASCII? Explain with suitable examples. 4+8=12

4. What is an arithmetic expression in BASIC programming language? Explain the hierarchy of arithmetic expressions with examples. 4+8=12

4. What are library functions in BASIC programming language? Discuss library functions with examples. 4+8=12

5. Write down short notes on any three of the following : 4×3=12

(a) Keywords and commands in BASIC language

(b) Debugging

(c) Logical and relational operators in BASIC language

(d) Compiled and interpreted languages

(e) Constants and variables

6. (a) State and explain Newton Raphson method. 6
- (b) Write a program in BASIC to determine roots of a quadratic equation. 6
7. (a) State and explain Regula Falsi method. 6
- (b) Write a program in BASIC to calculate average of ten natural numbers. 6
8. (a) State and explain Simpsons's rule. 6
- (b) Write a program in BASIC to root mean square of given numbers. 6
9. (a) State and explain Gauss-Siedal method. 6
- (b) Write a program in BASIC to subtract two matrices. 6
10. Write down short notes on any two of the following : 6×2=12

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(7)

(Turn over)

- (a) Elements of BASIC Programming language
- (b) Uses of strings in BASIC Programming language
- (c) Compilers and their uses
- (d) High level programming languages
- (e) Binary number format

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