

2019

COMPUTER SCIENCE

Paper-I

(Computer Hardware)

Note- Attempt all five questions. One question from each unit is compulsory.
All questions carry equal marks.

Unit-I

1. Define floppy disk & hard disk. Explain the types of operating system.

Explain the following :

- (a) Unary System and Decimal System
- (b) Binary Multiplication & Division

What is binary code? Explain EBCDIC codes with example.

Or

Explain the following :

- (a) Mathematical logic

- (b) AND, OR, NOT gate

Unit-III

What do you mean by TTL circuits? Explain electrical characteristics with example.

Or

Explain the following :

- (a) The Karnaugh map

- (b) Subtraction by 1's & 2's complements

Unit-IV

Define data transmission, Explain logic function generator.

Or

Explain the following :

- (a) RS flip-flop

- (b) Astable & Bistable circuits

Unit-V

What do you mean by shift register? Explain the parallel or synchronous counter.

Or

Explain the following :

- (a) RAM and ROM

- (b) PROM and EPROM

COMPUTER SCIENCE

Paper-II

(Computer Software)

Attempt all five questions. One question from each unit is compulsory.
All questions carry equal marks.

Unit-I

Explain flow chart using different examples.

Or

What do you mean by Window Accessories? Explain.

Unit-II

What is Firewall? Explain its types.

Or

How can we format worksheet in excel? Explain.

Unit-III

5. What do you mean by recursion? Explain.

Or

6. Define :

(a) For Loop

(b) While Loop

(c) Do-while Loop

Unit-IV

7. Explain :

(a) Passing arrays to function

(b) Accessing arrays inside function

Or

8. Define :

(a) Pointer Arithmetic

(b) Pointer to Pointer

Unit-V

9. Define :

(a) Array of Structure

(b) Pointer to Structure

Or

10. What is the difference between structure and union? Explain.

2017

COMPUTER SCIENCE

Paper : First (Computer Hardware)

Note: Attempt any five questions. One question from each Unit is compulsory. All questions carry equal marks.

Unit-I

1. What is Computer? Explain their various functional parts with their specifications.

Or

2. Perform the following :

- (i) $(48.5)_{10} = (?)_8 = (?)_2 = (?)_{16}$
- (ii) Add 1101 and 1011
- (iii) Subtract 10111 from 1000011
Using 1's compliments.
- (iv) Divide 1000001 from 11

Unit-II

3. Explain various computer codes BCD, ASCII, Gray code in detail.

Or

4. (a) What are the basic logic gates?
(b) Explain various EXCLUSIVE and UNIVERSAL gates.

Unit-III

5. Explain basic Boolean's law with proving the Demorgan's theorem.

Or

6. Write short notes on : (any two)

- (i) K-map
- (ii) Adder and Subtractors
- (iii) SOP and POS

Unit-IV

7. What do you mean by sequential logic circuits. Explain various Flip-Flops

Or

8. Write short notes on : (any two)
 - (i) Encoder and Decoder
 - (ii) MUX and DEMUX
 - (iii) Parity Generators

Unit-V

9. Explain various types Registers with example.

Or

10. Write short notes : (any two)

- (i) RAM and ROM
- (ii) Magnetic disk
- (iii) Cache Memory

COMPUTER SCIENCE

Paper : Second

(Computer Software)

नोट: सभी पाँच प्रश्नों के उत्तर दीजिए। प्रत्येक इकाई से एक प्रश्न करना अनिवार्य है। सभी प्रश्नों के अंक समान हैं।

Note: Attempt all five questions. One question from each unit is compulsory. All questions carry equal marks.

इकाई-I/Unit-I

1. विंडोज ऑपरेटिंग के विभिन्न संस्करणों पर संक्षिप्त व्याख्या कीजिए।
Briefly explain various versions of windows operating system.

अथवा/Or

ऑब्जेक्ट लिंकिंग तथा एम्बेडिंग क्या है? विस्तार से समझाइए।
What is Object Linking & Embedding? Explain in detail.

इकाई-II/Unit-II

2. माइक्रोसॉफ्ट वर्ड के फारमेटिंग संबंधित विभिन्न कमांड को उदाहरण सहित समझाइए।
Explain various formatting related command of Microsoft word with example.

अथवा/Or

निम्नलिखित को समझाइये—

Explain the following :

- (i) Move or copy sheet
- (ii) Sort
- (iii) FTP
- (iv) Firewall

इकाई-III/Unit-III

3. निम्न को समझाइए—

Explain the following :

- (i) print & scanf
- (ii) Nested if statements
- (iii) Library function
- (iv) Format specifier of scanf

अथवा/Or

‘C’ प्रोग्रामिंग लैंग्वेज के विभिन्न की-वर्ड को संक्षिप्त में समझाइए।

इकाई-IV/Unit-IV

4. निम्न को समझाइए—

Explain the following :

- (a) Multidimensional Array
- (b) Passing arrays to functions
- (c) Pointer Arithmetic

अथवा/Or

ऐरे क्या है? ‘C’ लैंग्वेज में विभिन्न प्रकार के ऐरे को समझाइए।

What is array? Explain various arrays in C language?

इकाई-V/Unit-V

5. स्ट्रक्चर तथा यूनियन को डिक्लेयर करने संबंधित प्रोग्राम बनाइए।

Write a program to declare structure and union?

अथवा/Or

निम्नलिखित को समझाइये—

Explain the following :

- (i) Dynamic memory allocation
- (ii) Scope of union
- (iii) Using structure

2015

COMPUTER SCIENCE

Paper : First

(Computer Hardware)

Note : Attempt all the five questions. One question from each Unit is compulsory. All questions carry equal marks.

Unit-I

1. What is Computer System? Explain the various types of operating system with suitable examples.

Or

What is Disk Operating System? Explain any five internal and external DOS commands with the help of syntax and example.

Unit-II

2. Explain the following :

- (i) Ecess 3 code
- (ii) EBCDIC codes

Or

Explain the following term :

- (i) Position and negative logic gates
- (ii) NOR & NAND Gates

Unit-III

3. What do you mean by the Demorgans Theorem? Explain in detail.

Or

Explain the K-map with the help of examples.

Unit-IV

4. What is multiplexer and demultiplexer? Explain in details.

Or

What do you mean by the flip-flop? Explain the RS and JK flip-flop.

Unit-V

5. What do you understand by the computer counters and shift register? Explain.

Or

What is Computer Memory? Explain the various types of computer memory.

COMPUTER SCIENCE

Paper: Second

(Computer Software Part -A)

Note : One question from each Unit is compulsory. All questions carry equal marks.

Unit-I

1. What is DOS? Explain any five internal and external command with syntax and example.

Write short notes on the following :

- (a) Recycle Bin
- (b) Algorithm
- (c) Desktop
- (d) Explorer

Unit-II

2. Explain mail merge in MS Word.

Or

Write short notes on the following :

- (a) www
- (b) FTP
- (c) E-mail
- (d) Yahoo

Unit-III

3. What do you mean by operator? Explain all types of operators with example.

Or

Explain the following :

- (a) Switch statement
- (b) Break statement
- (c) Functions
- (d) Go to statement

Unit-IV

4. What do you mean by pointer? Explain pointer arithmetic with example.

Or

What is Array? Explain various types of Array.

Unit-V

5. Explain the following functions :

- (i) Seek
- (ii) Fwrite
- (iii) Fopen
- (iv) Fprintf

Or

What is Union? Explain how union is different from structure?

ABHINAV