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42 (1) ICTH

2022

(Held in 2023)

ICT HARDWARE

Paper : 1-1

Full Marks : 50

Time : Two hours

The figures in the margin indicate full marks for the questions.

Answer ***any five*** questions.

1. (a) What do you mean by computer ?
Explain with the help of a block diagram. 6
- (b) What are hardware and software ?
What do you mean by application and system software ? 4

Contd.

2. Explain the following terms briefly :
2×5=10

- (i) EBDIC
- (ii) Gray codes
- (iii) RAM
- (iv) IP addresses
- (v) Floppy disk drives

3. (a) What are motherboard ? What are different types of motherboard ? 5

(b) What are cache and virtual memory ? Explain. 5

4. (a) What is defragmentation ? Why is it required ? 5

(b) What are patch panel and patch cord ? 3

(c) Define optical media. 2

5. (a) What is number system ? How we can convert a binary number to its octal equivalent ? Give example. 5

(b) What do you mean by preventive maintenance of DFD ? 5

6. Write short notes on : **(any two)** 5×2=10

(a) Network interface card

(b) Classification of computer

(c) Writing and cleaning CD

(d) Hard Disk tools

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42 (1) PRC 1-2

2022
(Held in 2023)

PROGRAMMING IN C

Paper : 1-2

Full Marks : 70

Time : Three hours

The figures in the margin indicate full marks for the questions.

1. Answer the following questions : $1 \times 5 = 5$

(a) Size of a character variable is _____ byte.

(b) What is Machine Level Language ?

c (c) What is *typedef* ?

c (d) What is void pointer ?

(e) What is ternary operator ?

Contd.

- (c) What is File pointer ? Explain various modes of opening a text file. $2+3=5$

OR

What is recursion ? Write the differences between recursion and iteration.

5. Answer the following questions : **(any five)**
 $5 \times 5 = 25$

(a) WAP to check whether a number is prime or not

(b) WAP to multiply two matrices

(c) WAP to remove an element from an integer array

(d) WAP to copy a text file to another file

(e) WAP to check whether a number is perfect or not

(f) WAP to display the digits of a number using words (i.e. Number 123 should be displayed as one two three).

2. Answer the following questions : **(any five)**

2×5=10

- (a) Write the differences between Compiler and Interpreter.
- (b) What is implicit type conversion? Explain with example.
- (c) What is 2-Dimensional array? How 2-Dimensional arrays are initialized?
- (d) Write the differences between *while* loop and *do-while* loop.
- (e) Write the differences between array and structure.
- (f) Write the name of the header file used for `strcat()` and `sqrt()` library function.

3. Answer the following questions : **(any five)**

3×5=15

- (a) What is Flowchart? Draw a Flowchart to display the maximum of four integers.
- (b) What is pointer arithmetic? Explain with example.

(c) Write the output of the given code

```
int main()
{
    int n;
    for(n=10; n!=0; n--)
        printf("\n %d", n--);
    return 0;
}
```

- (d) What is structure? How the members of a structure can be accessed?
1+2=3
- (e) What is unary operator? Explain increment and decrement operator with example.
- (f) What is data type qualifiers? Explain with example.

4. Answer the following questions :

- (a) Write the usage of the given C library functions— `getc()`, `strcmp()`, `tolower()`, `gets()`, `putchar()`
5
- (b) What is function argument? What do you mean by actual and formal arguments? Explain with example.
1+4=5

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42 (1) OOPS

2022

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OVERVIEW OF OPERATING SYSTEM

Paper : 1·3

Full Marks : 30

Time : One hour

The figures in the margin indicate full marks for the questions.

1. Answer the following questions : 1×5=5
 - (a) What is Kernel ?
 - (b) What do you mean by process ?
 - (c) What is the function of ls command ?
 - (d) What do you understand by Batch files ?
 - (e) What is directories in Linux ?

2. What is operating system ? Why is it known as a resource manager ? 2+3=5

Contd.

3. Explain the file system of Linux. 5
4. What are the main differences between DOS internal commands and external commands? 3

Or

Explain the various entertainment system tools present in Windows OS.

5. What do you mean by redirection and filters? 2
6. Explain the syntax and function of the following command in Linux: 5
rm, chmod, time, vi, wc

Or

Explain the architecture of Linux operating system.

7. Write short notes on : **(any one)** 5
 - (a) OLE
 - (b) Windows Explorer

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42 (1) INOA

2022
(Held in 2023)

**INTRODUCTION TO OFFICE
AUTOMATION**

Paper : 1·4

Full Marks : 20

Time : One hour

***The figures in the margin indicate
full marks for the questions.***

1. Answer the following questions : $1 \times 5 = 5$
- (a) What do you mean by header and footers in word processing?
 - (b) What is page setup?
 - (c) What is linking in spreadsheet?
 - (d) What is the use of COUNTIF () function?
 - (e) What is clip art?

Contd.

2. What is word processing? Explain its features. 1+4=5

3. What is page formatting? Write the steps to insert page number in a word document. 1+4=5

Or

Write the steps to insert and delete cells/rows/columns in an Excel worksheet.

4. Write the steps to create a chart in MS PowerPoint. 5

Or

Write in brief on different views of MS PowerPoint.
