

DESIGN OF QUESTION PAPER

CLASS: X

SUBJECT: COMPUTER SCIENCE

TIME: 3 HOURS

FULL MARK : 80

**1. Weightage to Objectives:**

Objectives	Knowledge (K)	Understanding (U)	Application (A)	Skill (S)	Total
Percentage of Marks	21	35	35	9	100
Marks	17	28	28	7	80

**2. Weightage to Form of Questions:**

Form of Questions	LA 5 marks	SA1 4 marks	SA2 3 marks	SA3 2 marks	VSA 1 mark	Objective 1 mark	Total
No. of Questions	5	5	5	7	6		28
Marks Allocated	25	20	15	14	6		80
Estimated Time (in minutes)	60	45	35	28	12		180

**3. Weightage of Contents**

Unit	Name of the Unit	Marks
1.1	Algorithm for problem Solving	<b>06</b>
1.2	Introduction to C language	<b>13</b>
1.3	Arrays	<b>10</b>
1.4	Strings	<b>07</b>
1.5	Functions	<b>07</b>
1.6	Basic Concepts of structure, Union & Pointer	<b>07</b>
2.1	Web Page designing using HTML	<b>20</b>
2.2	Hyperlink and Form	<b>10</b>

**4. SCHEME OF SECTION:** Nil

**5. SCHEME OF SECTION:** Nil

**6. DIFFICULTY LEVEL** : Easy -20% , Average - 60%, Difficulty- 20%

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BLUE PRINT

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Sl.No	Objective	KNOWLEDGE						UNDERSTANDING/*COMPREHENSION						APPLICATION/*EXPRESSION						SKILL			TOTAL	
		E	SA I	SA-II	SA III	VSA	O	E	SA I	SA II	SA III	VSA	O	E	SA I	SA II	SA III	VSA	O	E	SA I	SA II		VS A
1	1.1: Algorithm for problem Solving															6(2)								6(2)
2	1.2: Introduction to C language					2(2)		5(1)					1(1)			4(1)			1(1)					13(6)
3	1.3: Arrays					1(1)			4(1)					5(1)										10(3)
4	1.4: Strings							5(1)										2(1)						7(2)
5	1.5: Functions			3(1)					4(1)															7(2)
6	1.6: Basic Concepts of structure, Union & Pointer				4(2)												2(1)	1(1)						7(4)
7	2.1: Web Page designing using HTML			3(1)	2(1)			5(1)	4(1)								2(1)				4(1)			20(6)
8	2.2: Hyperlink and Form				2(1)									5(1)								3(1)		10(3)
<b>Marks with Form of Questions</b>				6(2)	8(4)	3(3)		15(3)	12(3)				1(1)		10(2)	4(1)	6(2)	6(3)	2(2)		4(1)	3(1)		
<b>Marks with no. of questions with objective</b>		17(9)						28(7)						28(10)						7(2)			80(28)	

Notes: (1) Figure within brackets indicate the number of questions and figure outside the brackets indicate marks.

(2)\* Denotes that marks have been combined to form one question.

(3) This blue print is for the sample question paper. It will vary from questions to questions.

Summary:

Type of question	No. of Question	Marks	Total	Type of question	No. of Question	Marks	Total
Essay/Long Answer (E)/LA	5	5 each	25	Short Answer (SA3)	7	2 each	14
Short Answer (SA1)	5	4 each	20	Very Short Answer (VSA)	6	1 each	06
Short Answer (SA2)	5	3 each	15	Objective Type	Nil		

Sample Question Paper  
Class – X  
Subject: Computer Science

Full Mark: 80

Time : 3 hours

Answer all the questions

1. Define a variable. 1
2. Name the header file for pow( ). 1
3. Write the statement to print the biggest of two numbers by using ternary operator. 1
4. Give one point of difference between while and do-while statement. 1
5. What is the smallest element in an array a of size 100? 1
6. How a union is different from a structure? 1
7. Write the use of the following string functions: 2
  - a) strcpy ( )
  - b) strcat ( )
8. How you declare and initialize a pointer giving with example? 2
9. Consider a structure 2

```
struct student
{
    int roll;
    char name[20];
    char school[20];
    float fees;
}x;
```

What will be the size of x?
10. Find the output of the following program segment: 2

```
int a, b, *P, *q;
a=30;
b=10;
p=&a;
q=&b;
*p=( *p-*q)*5;
*q= *p*3;
printf(“%d%3d”, a,b);
```
11. What are container and empty elements? Give one example each. 2
12. Differentiate between: 2
  - a. <FONT> and <BASEFONT> tags
  - b. <BR> and <P> tags
13. What is a hyperlink? Name the tag used to define a hyperlink. 2
14. Write an algorithm to sum the first N natural numbers. 3
15. Draw the flowchart to find the GCD of two integers. 3
16. Write the form of a function. What are the actual and formal parameters? 3
17. a) How many levels in heading tag? 1  
b) Name the attributes of <HR> tag. 2
18. Write the HTML code to design a form using radio button in the following format. 3
  - o MALE
  - o FEMALE
  - o TRANSGENDER
19. a) Rewrite the following statements by using switch statement: 2

```
if (color==1)
    printf(“RED”);
else if ((color==2)
    printf(“GREEN”);
else if (color==3)
    printf(“BLUE”);
else
    printf(“WRONG CHOICE”);
```

b) Write the for statement to print the following: 2

1      4      9      16      25      36
20. a) How searching is done in binary search method? 2

- b) What do you mean by the transposition of a matrix. Give an example. 2
21. a) Define a recursive function. 1
- b) Write a recursive function to find the factorial of a number. 3
22. a) Write the HTML code of the following: 2
- i)  $(A+B)^2 = A^2 + B^2 + 2AB$
- ii)  $H_2SO_4$
- b) Write the HTML code to insert an image SUN.JPG in drive D in a web page. 2
23. Write the HTML code to create a table in the format and style shown below: 4

STUDENT LIST

NAME	CLASS	SCHOOL
ROHIT	X	ABC
MINA	XI	MNP
KIRAN	XII	XYZ
ALL ARE TOPPERS		

24. Write a C Program to reverse and sum the digits of a number which contain more than one digit. 5
25. Write a C Program to sort an array of numbers in ascending order. 5
26. Write a C Program to count the number of vowels and consonants in a string. 5
27. Write the HTML code to generate in the format and style shown below: 5

!!COMPUTER SYSTEM!!

- 
1. HARDWARE
    - KEYBOARD
    - MONITOR
    - CPU
    - PRINTER
  2. SOFTWARE
    - iii. SYSTEM SOFTWARE
      - d. WINDOWS
      - e. UNIX
      - f. LINUX
    - iv. APPLICATION SOFTWARE
      - MS- WORD
      - MS-EXCEL
      - MS- POWERPOINT

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ANTIVIRUS FOR PROTECTION

28. Write the HTML code to generate a web page in the format and style shown below: 5

- \* FESTIVAL OF MANIPUR \*
- YAOSHANG
  - CHEIRAOBA
  - DURGA PUJA
  - NINGOL CHAKOUBA

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FOR MORE FESTIVAL [CLICK HERE](#)

Special Notes:

- a) Title of the page should be "FESTIVAL"
- b) Background colour should be "YELLOW"
- c) The colour of the main heading should be "GREEN"
- d) The unvisited and visited link colour should be "VIOLET" and "RED"
- e) The face and size of the bottom message should be "ARIAL" and "4".
- f) Pages linked with

YAOSHANG as YAO.HTML

[CHEIRAOBA as CHEI.HTML](#)

[DURGA PUJA as DURGA.HTML](#)

[NINGOL CHAKOUBA as NINGOL.HTML](#)

[CLICK HERE as FESTIVAL.HTML](#)