Model Question of HSC Examination-2020(All Board)

Time: 2 hours 35 Minutes

Information and Communication Technology

Subject Code: 2 7 5

Creative Question

Marks: 50

[N.B. Answer any five cuestions. The figures in the right margin indicate full marks.]

1. ▶ Abir was surprised to see Doctor's chamber functioning as doctor entered into the room by not touching his any organs of body and after entering into the room the calling Bell rang automatically.



- a. What is Plagiarism?b. Explain the treatment by sitting at home.
- c. Describe the technology of figure of the stem.
- d. By which Technology Abir was surprised? Describe its various types with examples.



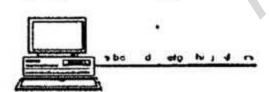


Figure 1



Figure 1.2

- a. What is Bandwidth?
- b. Which Topology will give you the maximum support on your Computer Lab and Why?
- c. Differentiate between other transmission method with the figure-01's method.
- d. Describe characterized features of the technology used for the apps on figure-1, 2 indicating its types.

3. ICT lecturer wrote three positional numbers on Board as (1011011.1111)₂, (546.735)₈, (5D.AF) respectively. But a Notebook $(345.625)_{10}$ student on his wrote $(1010100.11101)_2$ respectively. What is code? 1 b. BC + BC + BC. Simplify this expression. Convert Teacher's 1st number of Decimal and 2nd number C. to Hexadecimal. Subtract from Student's 1st number to 2nd number d. binary and with this result add Teacher's 3rd number in binary. 4. ★ <html> <h3 align = "center"><u> Cadet Information</u></h3> <form align="center"> Cadet No:<input type="Number">
 Cadet Name:<input type="text">

 Select Game <input type="radio" > Handball <Input type="radio">Badminoton

</ri> Cadet College <input type="checkbox">MGCC <input type="checkbox">JGCC <input type="checkbox">FGCC

 <input type="Submit" value="Submit"> </form>

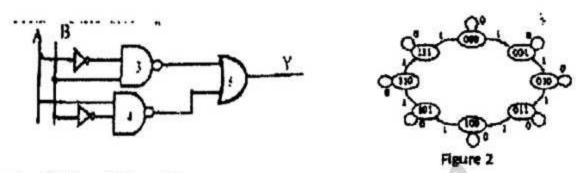
</html>

a.	What is Web Server?	1
b.	What do you mean by Web Hosting?	2

c. Describe any 10 tag from above stem.

d. If you open the above stem's html document using any browser then what will be the output page.

5.



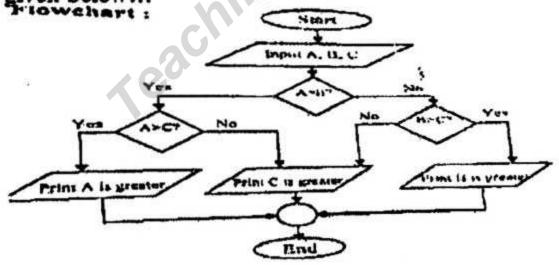
a. What is Flip-Flop?

b. Prove the universality of NOR gate.
 c. Express the value of Y in Boolean Expression and

simplify.

d. Describe the working incedure of the digital device used for functionality of figure-2.

6. ► A Program flowchart is given below:



a. What is Looping?

b. Explain the rules for declaring a variable validity. 2

c. Explain the Symbols of the above flowchart with their usage.

d. Write C program to get the result of above flowchart if the numbers are expanded to D.

7. ▶ Billah coded the following programs. #include<stdio.h> #include<conio.h> Main() int i, sum=0; int n=100; i = 1i=i+2sum=sum+i printf(Total of the series is %d, sum) getch(); What is Algorithm? a. What is the significance of scanf("%d"); b. Write the flowchart of the program Billah coded. C. Write the program of the stem using While and Do While d. Loop taking the value of n from keyboard.

8. ▶ Table-1

Item Code	Item Name
301	Pen
302	Pencil

Table-2

Item Code	Manufacturer	Unit Price	Quantity	Total
301	Matador	100/-	40	4000/-
302	Notoraj	200/-	60	12000/-

a. What is Cipher text?

b. What are the methods to input data in database management?

 Explain what problems would have occurred if there had been no "Item Code" field in table-2?

d. According to the stem what relation can be made with Table-1 and Table-2? Explain.

4.

6.

missing point?

Encoder

Which device should be used on

Which one is correct?

6 ii & iii

(d) i, ii & iii

@ i & ii

@ i & ii

14.	Cho	ose	the	cor	rec	t H	ITN	1L	tag	g 01	f	8	20.		Qu	ery	rela	ates	to	E)							
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16.	6. To create a combo box (drop													the questions no 22 and 23													
	down box) which tag will you use?												# include <stdio.h></stdio.h>														
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	6 <													ir	1 a, s	s=0;	;										
	© <			•				">						fo	or(a=	=0;i	<=5	5; a-	++)								
	(a) 					- 17	100								S=5	s+a;											
# fo	r (i=:		C-28-VP												Pri	ntf("%	d",	s);								
			200	97 30 000	-,								22.	W	hat	W	ill	be	the	0	utp	ut	of	th			
	Printf("%d", i); 17. Which of the following sequence												program above?														
	AND SERVICE OF THE SE							(IB)E)						(a)	5				Œ	6 (
	will be the output? (a) 2, 4, 6, 8												© 10 @ 15														
	b 3											23. Output will be 6 when-															
	© 3									0			(a) $a=1$, $a=a+2$														
												ⓑ a=2,a=a+1															
18.	③ 3, 5, 7, 98. When should you use path along												© a=2,a=a+2														
	with file name of picture in IMG												 d a=0,a=a+2 24.														
	tag?						0						24.		W	hic	h a	re	exa	mp	ole	of	DE	BMS			
	a path is optional and not necessary											software?															
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