Model Question of HSC Examination-2016 (All Board)

Subject: Information & Communication Technology

Sub Code : 2 7 5

Time: 2 hours 10 minutes

Full Marks: 40

- 1. Mr. Raihan is a old record keeper of a office. He is experience in typing different papers of office, store this, secret this information and maintain these files. He knows if a file is stolen or lost it is harmful to related person and office and even he also responsible for that.
- What is computer crime?

- b. What are the main issues of morality using information and communication technology?
- Explain how Mr. Raihan effects if any type of information is lost or stolen.
- d. What types of steps in necessary for proper utilization of computer and secured storage of information give your own opinion?

2. ▶ Read the given stem and answer question.

Khairul and Amzad designed a web page for helping farmers in Bangladesh. They want to publish their site. But some step is necessary before Web publishing. They knew that information Misu, Mim and Sathi published their site.

What is Web publishing?

b. What steps are necessary for web publishing?

- According to stem. why did they want to publish their site?3 C.
- According to stem, briefly describe the Web hosting and ·d. domain name.

3. ▶ Read the given stem and answer question.

```
= include<stdio.h>
int main()
int year;
Printf("Enter the year(4 digit) to check:");
scanf("%d",& year);
if (year\%400 = 0 || (year\%100! = 0 \&\& year\%4 = = 0))
printf("year%d is a leap year", year);
else
printf("year%d is not a leap year", year);
return 0;
```

a.	What is variable?
b.	Write the difference between variable & constant. 2
c.	Explain the 8 number line of the program. 3
d.	Which statement can be used in 8 number line replace it. 4
4.	▶ Read the given stem and answer the question:
i) ((777) ₁₀ ii) (FFF) ₁₆
a.	What is Unicode?
b.	What is the importance of 2's complements?
c.	Express (i) and (ii) into Octal form.
d.	Add the number (i) and (ii) of the above stem in binary
	system and express the result in hexadecimal form. 4
5.	► PC-2
*1	PC-1 HUB PC-3
a.	What is network topology?
b.	Explain the features of GSM. 2
c.	Describe the function of above topology. 3
d.	Explain the advantages and disadvantages of the above
	stem. 4
6	▶ i) $X = (\overline{A} + \overline{B} + \overline{C})$ ii) $Y = (\overline{A}, \overline{B}, \overline{C})$
a.	What is encoder?
b.	NAND gate is universal Gate-Explain with figure. 2
c.	Draw the logic circuit of (i) and (ii) 3
d.	According to the stem, in picture (i) and (ii) how many
	gates have been used? Show the truth table of both
	pictures.

Sub Code : 2 7 5

Full Marks: ?"

Time: 35 Minutes

[Answer all the questions. Each questions carries 1 marks. Tick with ball point pen into the correct answer in the answer sheet.]

		© <th></th>	
1.	The person who gave the concept of global village?	Read the following paragraph and answer question 10-11.	
	Michel Luis	A company makes a website for their	
	(b) David Luis	organization but of is not found in Google	
	© Marshal McLuhan	search at first page.	
	d James Atherton	10. Which HTML tag is not used in	
2.	The software used in bioinformatics-	website?	
	(a) MS-Excel (b) Photoshop	(a) HEAD (b) BODY	
	© SQL	© META @ SEARCH	
3.	Which is used in cryosurgery?	11. Which is the search engine?	
	Liquid Nitrogen	(a) Yahoo (b) Norton	
	Liquid Oxygen	© Microsoft	
	© Liquid Ammonia	12. C program is created in-	
	(d) All	(a) 1980(b) 1970	
4.	Who is the father of artificial	© 1820	
, ·	intelligence?	13. What is the mian aim of the program?	
	Allan Turing	(a) Solving problem	
	Steffen Hackings	Finding problem	
	© Bill gates	© Creating problem	
	Marshal Mcluhan	Fast solution of the problem	
5.	Rôbot is a-	14. The program that creates the machine	
	Space exploration device	language is called-	
	Human alternative devoice	(a) Assembler (b) Compler	
	© Artificial intelligence device	© Interpreter	
	d Automatic device	15. The information of Web is stored in- (a) Website (b) Web browser	
6.	Who suggest about the Global		
	Hypertext Project?	© Web page d Web server 16. Which of the following is not the field of	
	(a) Eric Bina	the bio metrics?	
	Tim Barners Lee	Voter ID	
	© Mark Anderson	© ATMs	
	d Bill gates	17. Which of the following is used for	
7.	Which year WBC was established?	creating the computer hard disk?	
	(a) 1989 (b) 1990	Nanotechnology	
	© 1993 @ 1994	(b) Robotics	
8.	When the first website created?	© Cryosurgery	
	(a) 1989 (b) 1990	d Biometrics	
	© 1991	18. Where is used HTML tag?	
9.	Which tag is used for table heading?	a start of tagb end of tag	
	(a) <tr> (b) <td></td><td>© with tag (d) within tag</td></tr>		© with tag (d) within tag
	© with tag (d) within tag		

19. Which is the 4-G Langua	age?		_	-023 N - 123 N OL					
(a) C++ (b) P	ython		(C)	Partiall	y proble	m			
© HTML @ N	MATLAB		(1)	Reconfi	iguration	n def	ault		
20. In which topology the	ere is no host	28.	Ho 256		bits ar	e ne	eded to	represen	
computer-		100	(a)	8		(b)	32		
"	lybrid		©	16		(1)			
	ree	20						1 16 4	
21. Which of the following is	s the measuring	29.				an	output	1 if the	
standard of Wimax?	10 m		1	ut is 0 X-OR					
ⓐ IEEE 802.16			N. T. Co.						
ⓑ IEEE 802.16e	Single College	1977	-	NOR					
© IEEE 802.16g			-	NAND					
d All the above		20	-	X-NOR					
	Which of the following is non positional		30. What is the 2's complement of 7?						
number system?			(a)	0010 -			1101		
Binary		-		0111		(0)	1001		
(b) Roman		31.	-	M is cor	nposed	-	most	- 21 100	
© Ancient Hieroglyphic			(a)	FDMA		(P)	TDMA		
d Octal		1	(C)	CDMA		(4)	a&b		
23. For telecasting anything	g in radio and	32.	-	0101)2-(?)8				
television which transmis	ssion is used?		(a)	35					
② Simples & Unicast	150		-	40					
⑤ Full duplex & Broadca	ast		©	55					
© Half duplex and δ Uni	cast		(d)	45					
d Simplex and Broadcas		33.	(FE	36)16=63					
24. Which number system is			(a)	101101	01000	8			
digital electronics.			(b)	111110	110110				
ⓐ 0V-08V			© 10100111011						
ⓑ +0.8V-+2.0V									
© +2V ~ 5V		34.	34. Convert (925)10 into BCD (a) (1001 0010 0101)						
No none of above									
25. Which is the binary					001 010	0)			
(99) ₁₀ ?				(81010	01 10 11	(111)			
	010011	(d)		10 0001		,			
	101010	35.							
26. Which one is decimal			X		Y		F		
(B5D) ₁₆ ?	equivalent of		0		0		0		
	909		0		1		1		
400 - [강구경 강강화 영어지는 - [하라이트 - 그리고 10년] 인당	2909		1	11 22-1	0		1		
27. What will be the con	1944		1		1		0		
computer in case of teri		11.1	whi	ich logi	11.	SHE		nis truth	
problem?	muai computer		tab		- Buit		port ti	cruch	
No problem at all			100	AND		(b)	NAND	/	
Whole network will di	isorder		©	XOR			NOR	8. 8	
		121							
1 © 2 © 3 @ 4 @ 5 © 6	the second control of			1		16©	17 @ 18	19@ 20	
21(3) 22(6) 23(6) 24(6) 25(6) 26(6)	1 27 @ 28 @ 29 @ 3	0(0) 21 (0)	3210	133 (6) 24	(a) 35 (C)				