

Chattogram Board-2017

Time : 2 hours 35 Minutes

Information and Communication Technology
Creative Question

Subject Code : 275

Marks : 50

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

1. ★ To create a national ID card election commission created an excellent database with picture of face, fingerprint and signature of adult citizen. Now a day's passport office used that database with permission of election commission to create machine readable passport. But some criminal trying to hack the database to create fake passport but ultimately fail.

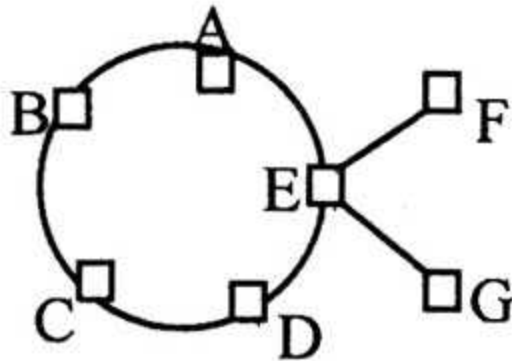
- a. What is video conferencing? 1
- b. "Safe driving training is possible through the use of special technology" give explanation. 2
- c. Analyze the technology mention in the stem that election commission took help to create database. 3
- d. Explain the moral aspects of some fail people mention in the stem. 4

2. ► Rahat went to his friend's house to watch football on television. On the way back from the match, he saw a truck was accident on street. A police officer stood in front of the truck and speaking through a device similar to a mobile phone. At that time Rahat's friend Reza asked him on mobile phone to know which county own the match. Rahat replied Germany.

- a. What is computer network? 1
- b. Describe the fastest medium of data movement. 2
- c. Which method is used to exchange information, that device used by police officer mention in the stem. 3

- d. Is there any dissimilarities of data transmission in two device in Rahat watching game in television and informing friend about result of the match? Explain in light of the stem. 4

3. ►



- a. What is modem? 1
- b. Explain why asynchronous transmission take more time. 2
- c. If the E device of the topology mention in the stem is broke down then describe the problem will create for data transmission. 3
- d. Explain what step should be taken to A, B, C, and D device mention in the stem for maximum data transmission. 4

4. ★ Sneha and Mita ware discussed about test result. Sneha said that, I got $(4C)_{16}$ in ICT. Mita said, I got $(103)_8$ number in ICT. Read in class five their brother could not understand who got more number.

- a. What is the base of number system? 1
- b. Why $3-5=10$? Explain. 2
- c. How much number Sneha and Mita get in decimal. 3
- d. Calculate the differences of Sneha's and Mita's number in 2's complement using 8 bit register. 4

5. ► Arms specialist Jisan's room need to keep in security system. So, two doors have to be crossed for entering his room. In first door, the door will open if any one of the two switches is on. If the two switch turn on or off at same time, then door will not open. But for the second door the opposite step of the first door is to take.

- What is logic gate? 1
- Unicode is a blessing for people speaking in all languages of the world- explain. 2
- Find out the truth table that the logic gates indicate at the first door of the stem. 3
- Analyze the truth of the second door of the stimulus with the help of a true table. 4

6. ★ Didar creates the following web page for displaying the test examination result and save it as test.html.:

Test Result				image.jpg
Roll	Group	Name	Result	
101	Hum.	Raza	A ⁻	
102	Hum.	Eva	B	
103	Hum.	Jaber	A ⁻	
104	Hum.	Joni	C	

- What is web site? 1
- Describe the advantages of using HTML. 2
- Write the html code to create the above test.html file. 3
- Write the html code which will display the website www.moedu.gov.bd after clicking on the image image.jpg and analyze the role of those tags in the web page. 4

7. ► Bangladesh has batted first after winning the toss of a cricket match between Bangladesh and New Zealand. After the Bangladesh batting it is seems that Saber, Monir and Mijan's run are respectively a, b and c. All hopes that Bangladesh will win the match.

- What is compiler?
- When does we use long integer instead of integer? — Explain.
- Draw the flow-chart to calculate the average run of Saber, Monir and Mijan on the light of the stem.
- Which player among the three players get the highest run? Write the C code of it.

8. ★

Roll	Name	F.Name	DoB
501	Rabi	Nihar	25-09-01
502	Sanu	Kabir	06-11-02
503	Mila	Rabbain	09-09-01
504	Rabi	Zahid	12-12-99

Table-1

Roll	Name	Group	GP
501	Rabi	Bs	5.00
502	Sanu	Se	4.95
503	Mila	Se	4.65
504	Rabi	Bs	5.00

Table-2

- What is record? 1
- Why does we need to do data encryption? — Describe. 2
- Which problem will occur if the roll field doesn't exist in the Table-2 of the stem? — Analyze. 3
- Analyze the conditions to create relation among table-1 and table-2 of the stem. 4

[N. B. Answer all the questions. Each question carries one mark. Block fully, with a ball point pen, the circle of the letter that stands for the correct/best answer in the "Answer Sheet" for Objective Type Examination.]

1. What is called the employment opportunity by using internet?

- (a) E-commerce
- (b) Outsourcing
- (c) E-business (d) E-governance

2. Which method actuator is used?

- (a) Genetic engineering
- (b) Nano technology
- (c) Robotics
- (d) Bioinformatics

3. Which is the field of applying computer simulation?

- (a) Cryosurgery (b) Virtual reality
- (c) Internet
- (d) Video conferencing

4. Which technology is used to produce high growing crops?

- (a) Biometrics
- (b) Virtual reality
- (c) Nanotechnology
- (d) Genetic engineering

5. What is the function of photodetector?

- (a) Convert analog signal into digital signal
- (b) Convert digital signal into analog signal
- (c) Convert electric energy into light energy
- (d) Convert light energy into electric energy

Read the stem and answer the question number 6 & 7:

Nirob is a new web developer. He creates website by using HTML and also work is hyperlink.

6. Which tag is used by Nirob to do the mentioned work?

- (a) <caption> (b) <a>
- (c) <href> (d) <link>

7. The advantage of the way the work of Nirob doing—

- i. Can be link a part of a page of a website with other parts of a same page
- ii. Can goto a page from other page in the website
- iii. Can be link between a website with other website

Which of the following is correct?

- (a) i & ii (b) i & iii
- (c) ii & iii (d) i, ii & iii

8. What is the next value 1.8, F series?

- (a) A (b) B (c) 16 (d) 22

Read the stem and answer the question number 9 & 10:

Computers of various departments of Kushiyara College have been added in such a way that all the computer are connected in a circle with each other. But to save time ICT teacher change the network topology.

9. Which type of topology used in that college?

- (a) Star (b) Ring
- (c) Bus (d) Mesh

10. What kind of topology is used by the ICT department teacher for increase exchange information?

- (a) Star (b) Ring
- (c) Bus (d) Mesh

11. What is the summation of $(100)_2$ and $(AA)_{16}$?

- (a) 1AA (b) 1B (c) AF (d) AE

12. Runs on full duplex mode —

- i. Mobile phone
- ii. Land phone
- iii. Radio broadcast

Which of the following is correct?

- (a) i & ii (b) i & iii
- (c) ii & iii (d) i, ii & iii

13. ★ Which attribute is used to change the font name?

- (a) size (b) font
(c) face (d) name

14. English alphabet can be include in all microcomputer —

- i. By ASCII ii. By EBCDIC
iii. By Unicode

Which of the following is correct?

- (a) i & ii (b) i & iii
(c) ii & iii (d) i, ii & iii

15. Input of encoder is —

- i. Octal number
ii. Decimal number
iii. Hexadecimal number

Which of the following is correct?

- (a) i & ii (b) i & iii
(c) ii & iii (d) i, ii & iii

16. Which of the heading tag is small in size?

- (a) h1 (b) h3 (c) h5 (d) h6

17. How many type of relational operator "C" language have?

- (a) 2 (b) 3 (c) 5 (d) 6

18. Which of the following is not a preserve word?

- (a) break (b) if
(c) else (d) function

19. Need to write a program —

- i. Problem selection
ii. Bug the program
iii. Debugging the program

Which of the following is correct?

- (a) i & ii (b) i & iii
(c) ii & iii (d) i, ii & iii

20. What is the maximum number of letter in text data type?

- (a) 128 (b) 255

- (c) 256 (d) 512

Read the stem and answer the question number 21 & 22:

```
for (c=2; c<=10; c=c+2)
{printf("ICT");
if (c == 6)
break;}
```

21. ★ How many times will ICT text be displayed?

- (a) 1 (b) 2 (c) 3 (d) 5

22. ★ How many times will ICT text be displayed if we remove 'if' condition?

- (a) 1 (b) 2 (c) 3 (d) 5

23. Example of query language —

- i. QBE
ii. SQL
iii. QUEL

Which of the following is correct?

- (a) i & ii (b) i & iii
(c) ii & iii (d) i, ii & iii

Read the stem and answer the question number 24 & 25:

A database is created for 3000 student of a college where a data file named exam is create for information about database examination and personal is created for personal information.

24. Which field is mandatory to create a relation of both file?

- (a) Name (b) Roll
(c) Salary (d) Age

25. Data type of Roll field can be —

- i. byte
ii. text
iii. integer

Which of the following is correct?

- (a) i & ii (b) ii & iii
(c) i & iii (d) i, ii & iii

Ans.	1	(b)	2	(c)	3	(b)	4	(d)	5	(d)	6	(b)	7	(d)	8	(c)	9	(b)	10	(d)	11	(d)	12	(a)	13	(c)
	14	(d)	15	(d)	16	(d)	17	(d)	18	(d)	19	(b)	20	(b)	21	(c)	22	(d)	23	(d)	24	(b)	25	(b)		