

Creative Question

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

1 ▶ Observe the Stem properly & give the answer given below.



- What is computer network? 1
- What are the main objectives of computer networks? 2
- Describe the computer network depending on providing control structure service. 3
- Explain with figure how modem transfer data through communication media. 4

2 ▶ Observe the Stem properly & give the answer given below.

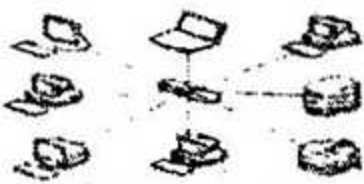


Fig. - 01

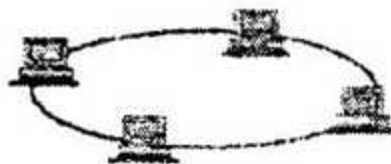


Fig. - 02

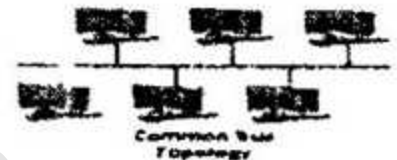
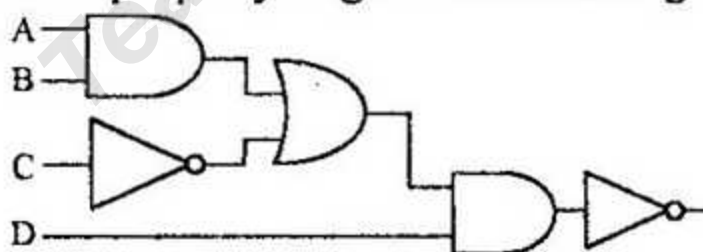


Fig. - 03

- What is Network Card? 1
- Convert EBCDIC to octal. 2
- How you will join the fig-1, fig-2 & fig-3 of the stem & how the new network will work?—Explain 3
- Which kind of Topologies is mostly reliable of the stem for internal communication in your college. —Give your comparative opinion. 4

3 ▶ Observe the Stem properly & give the answer given below.



- $A \oplus B = ?$ 1
- Draw a three input NOR gate with truth table. 2
- Write the output equation of the above circuit. 3
- Draw an equivalent logic circuit of the above figure by using NAND gate. 4

4 ▶ The principal of Mirzapur Cadet College wants to create a database of his students. By creating a database, he wants to inform his guardian about the presence of students and result timely. He wants to see the development of a student by analyzing the result.

- What is query? 1
- Differentiate primary key and foreign key with example. 2
- Write the data type of different field to store the data of the students. 3
- Generate a relational database for storing the data of the students of Mirzapur Gadet College. 4

5 ▶ The BBC has a club audience Dilarapura remote village in Narsingdi. 8 pm every day, sitting in the audience of all the BBC's Bengali ceremony at the United Nations. Not only that, the BBC's Bengali shows Q & A session took part in a lot may know. The BBC has become advanced enough for the welfare of the young men of the village Dilarapura.

- What is called ICT? 1
- What is teleconferencing? Explain it. 2
- Discuss any aspect of information technology is reflected in the inspiring. 3
- "The BBC has become advanced enough for the welfare of the young men of the village Dilarapura." In light of the information technology give your opinion. 4

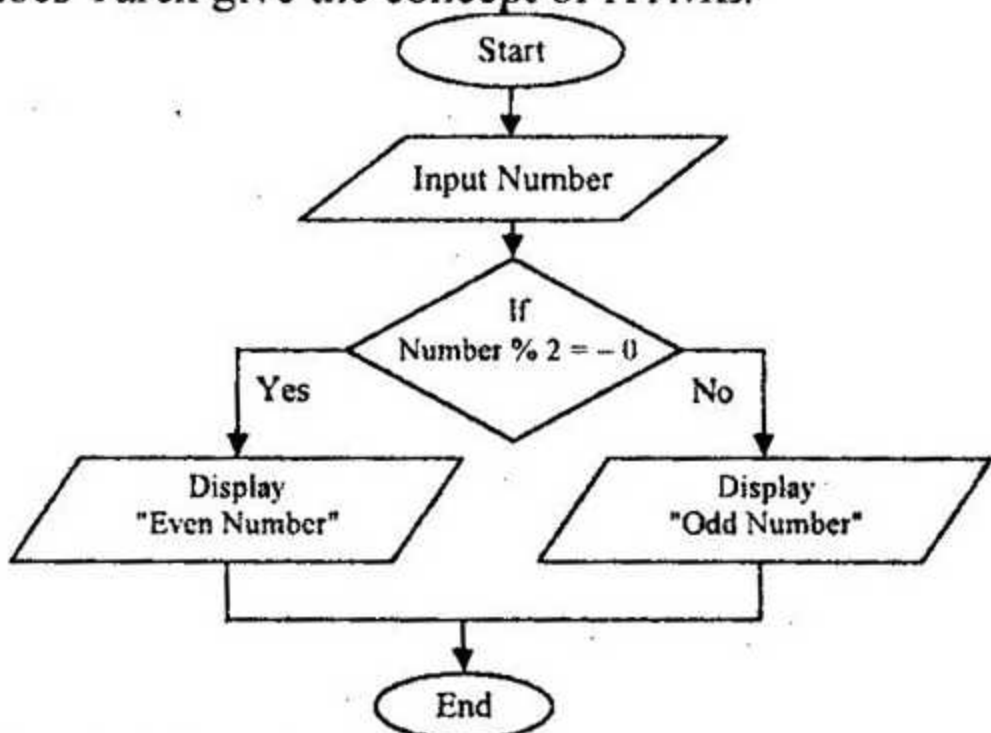
6 ▶ The managing director of a private bank branch managers in a variety of video conferencing and electronic funds transfer system was a decided. For more information about the necessary technical equipment and overall head of the Information and Communication Technology Department of attention. The Head of the Information and Communication Technology elements required for video conferencing and video conferencing in the name of the managing director explains to the overall technological process. He also explained about the Electronic Fund Transfer.

- What is called video conferencing? 1
- Write down the advantages of video conferencing? 2
- Can Healthcare services, video conferencing play a key role? 3
- Electronic Fund Transfer's role in providing banking services-write your opinion. 4

7 ▶ Tarek and Manik are two friends. Tarek is an expert in Web designing. He earns 45000 taka per month from design. Manik wants to know about web design from Tarek. Tarek gives his concepts of Web pages and HTML.

- What is Web design? 1
- What is the difference between Web design and Web structure? 2
- According to stem, what is the first necessary steps for Web structure? 3
- Why does Tarek give the concept of HTML. 4

8 ▶



- What is called flowchart? 1
- Write the difference between local variable and global variable? 2
- Write down the C code for this program. 3
- Describe the symbols of this diagram. 4

Information and Communication Technology

Time : 25 minutes

Full marks : 25

[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.]

- What should be the first tag in any HTML document?
 - <head>
 - <title>
 - <html>
 - <document >
- Choose the correct HTML tag to make a text italic
 - <i>
 - <italics>
 - <ins>
 - <i>
- A Webpage displays a picture. What tag is used to display that picture?
 - picture
 - image
 - img
 - scr
- Which person gives the idea of 'global village'?
 - Marshal McLuhan
 - Marshal He iderson
 - Bill Gates
 - Mark Zuckerberg
- Which is not a network topology?
 - Bus
 - Car
 - Star
 - Ring
- Which one is a element of data communication?
 - Source
 - Media
 - Destination
 - All
- What is the next value in Binary of the Hexadecimal number 3D?
 - 00111110
 - 0011.1110
 - 00111101
 - 01111110
- The computer network is--
 - Network computer with cable
 - Network computer without cable
 - Both of the above
 - None of the above
- If all devices are connected to a central hub, then topology is called--
 - Bus Topology
 - Ring Topology
 - Star Topology
 - Tree Topology
- Nanometer = ?
 - 10^{-9} meter
 - 10^{-9} millimeter
 - 10^{-9} micrometer
 - 10^{-9} centimeter
- FTP means--
 - First Telephone program
 - Fast Transmission Process
 - File Transfer Protocol
 - First Transfer Protocol
- The full meaning of HTTP is--
 - Hypertext Top Protocol
 - High Technical Transfer Protocol
 - Hypertext Text Protocol
 - Hypertext Transfer Protocol
- What is a HTML editor?
 - Java
 - Notepad
 - Basic
 - MS Excel
- Which of the half adder carry C?
 - $C = Y + Y$
 - $C = XY'$
 - $X'Y$
 - $C = XY$
- $(19)_{10} = (?)_2$
 - 10010
 - 0111
 - 1101
 - 1011

X	Y	F
0	0	0
0	1	1
1	0	1
1	1	0

Which one is the logic gate?

- AND
 - NAND
 - XOR
 - XNOR
17. Which one is the universal gate?
- Ex-OR
 - OR
 - NAND
 - Ex-OR
18. C programmes are converted into the machine language with the help of--
- An editor
 - Computer
 - An operating system
 - None of the above
19. Which electric spectrum is radio wave?
- 10 Hz – 1 kHz
 - kHz – 10 kHz
 - 10 KHz – 1 GHz
 - Not anyone
20. Which programe is not database program?
- MS Excel
 - Oracle
 - MS Access
 - FoxPro
21. Query is--
- Always update data
 - Search anything from database
 - All of above
 - Present database
22. Which is not a man part of data encryption?
- Plaintext
 - Cipher text
 - Encryption algorithm
 - All the above
23. In the structure of fiber, which component provides additional strength and prevents the fiber from any damage?
- Core
 - Cladding
 - Buffer Coating
 - None of the above
24. Twisted-Pair and coaxial cable are used--
- copper
 - light
 - unwired
 - wireless
25. Bluetooth is the wireless technology for--
- logical area network
 - personal area network
 - both (a) and (b)
 - neon of the mention

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