

Model Question
HSC Examination 2015

Subject : Information and Communication Technology (Theory)

Time : 3 Hours

Full Marks - 75

Answer any Seven of the following questions: $5 \times 7 = 35$

1. What is biometric? Write this advantage.
2. Describe the data transmission mode.
3. How many type of cable describe shortly all type of cable.
4. What is network topology? How many type of Network topology & shortly describe all type network topology.
5. What is logic gate? Proved the DE Morgan theorem by using truth table.
6. What is web page? Describe the process of web page making.
7. Draw a flow chart and algorithm to identify one maximum number by three numbers.
8. Describe the stapes of developing program.
9. What is indexing? What different between sorting and indexing?
10. What is database management system? Write the function of DBMS.

Answer any four of the following questions: $4 \times 10 = 40$

1. Write concepts of communication systems and description data communication element.
2. (a) What is bandwidth? How many type of communication motion?
(b) Description data transmission methods.
3. (a) What is Translator program? Describe type of Translator program.
(b) Write down the different compiler and interpreter.
4. (a) What is 2's complement?
(b) Write the example and subtraction process of 2's complement.
Subtract 101101 from 110101 using 2's complement.
5. (a) What is Genetic engineering & Nano technology?
(b) Write the stapes of recombinant DNA logic.
6. Write down the HTML heading Zoning tag and write HTML coding for link image with web page.