

AS/2110

5204/NH

Total No. of sheet used : 01 **Total No. of Questions:** 09
Subject : Fundamentals of Information Technology
Class : BA/B.Sc. Part-I (Computer Science) (Semester-I)
Paper : BAP-101
Title of Paper : Fundamentals of Information Technology
Maximum Marks: 45 **Time Allowed :** 3 Hours

Note: Candidates are required to attempt two questions each from sections A and B of the question paper and the entire section C.
 Use of non-programmable scientific calculator is allowed.
 All questions carry equal marks.

SECTION A

- Q1. Define a computer? What are the characteristics of a computer? Draw a block diagram of computer and explain various components. 09
 Q2. Elaborate the working of compact disk in detail. 09
 Q3. Differentiate the following
 a) Printer vs plotter 03
 b) RAM vs ROM 03
 c) Compiler vs interpreter 03
 Q4. What do you mean by machine language? What are the advantages and disadvantages of machine language? 09

SECTION B

- Q5. What are various number systems you are familiar with? Explain the process of converting the octal number to decimal number and vice-versa with the help of an example. 09
 Q6. Define computer networks. Discuss in detail the various network topologies. 09
 Q7. What do you mean by IT? What are various applications of IT? Discuss any two in detail. 09
 Q8. Discuss the following in brief
 a) Bluetooth technology 03
 b) Merits and demerits of online shopping 03
 c) Virtual reports 03

SECTION C

- Q9. a) Give the characteristics of 2nd generation of computers. 1.5
 b) What are the merits of cache memory? 1.5
 c) What are the utilities of spreadsheet package? 1.5
 d) Subtract binary number (110101010) from (10010110) using 1's complement. 1.5
 e) Differentiate between weighted and non-weighted codes. 1.5
 f) Write short note on WWW. 1.5