

**B. C. A. (First Semester) Examination, 2017-18**

Paper Second

BCA - 502

**[Fundamentals of Computers]**

Time : Three Hours]

[Maximum Marks : 70

**Note :** Attempt any *five* questions. All questions carry equal marks.

- Q1. (a) Draw the block diagram of a digital computer and explain its various blocks. 7  
 (b) Give classification of various types of memory used in computers. 7
- Q2. (a) List and explain various types of Input/output devices. 7  
 (b) Explain algorithm? Write an algorithm to calculate the odds even number (N). 7
- Q3. (a) Differentiate b/w the primary memory and secondary memory. Why RAM is called volatile memory? 7  
 (b) "Operating system is called as the resource manager of your computer system". Justify the statement. 7
- Q4. (a) What is the difference between external and internal DOS commands? Give example to support your answer? 7  
 (b) Write the key features of high level languages? 7
- Q5. (a) Write is the difference between assembly language and machine language. 7  
 (b) Write short notes on : 7  
 (i) Application Software  
 (ii) System Software
- Q6. (a) (i) Explain the TCP/IP Model. 7  
 (ii) What is the difference between data and information? 7  
 (b) Write short note on any four : 7  
 (i) Virtual Memory  
 (ii) Uniform Resource Locator  
 (iii) Binary Division  
 (iv) Distributed Computer System and Parallel computers  
 (v) CDs and DVDs.