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Unit - IV

8. Draw the basic block diagram of a computer.  
Explain each component in detail.  $7\frac{1}{2}$
9. Explain the following terms :  $2\frac{1}{2} \times 3 = 7\frac{1}{2}$
- (i) Timers
  - (ii) Display controllers
  - (iii) DHA Controllers.

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Roll No. \_\_\_\_\_

**S-769**

B.Sc. (Part-I) Examination, 2015

(Old Syllabus)

Computer Application

First Paper

(Computer Fundamentals & Introduction to  
IBMPC)

***Time Allowed : Three Hours ] [ Maximum Marks : 50***

Note : Answer five questions in all. Question No.  
1 is compulsory. Attempt one question  
from each of the four units.

1. Answer the following :  $2 \times 10 = 20$
- (i) list any five operations performed by a computer system.
  - (ii) What is the difference between hardware and software?
  - (iii) Multiply the binary numbers 01101 & 1001

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- (iv) What are registers?
- (v) Explain multitasking.
- (vi) Write short notes on 'number system'.
- (vii) Distinguish between ALU & CPU.
- (viii) Define the term time sharing operating system.
- (ix) Discuss the advantages and disadvantages of using computers.
- (x) What are the characteristics of a micro-computers?

Unit-I

- 2. (a) What is a computer? Explain its positive & negative effect on the modern society. 5
- (b) Explain the use of computer in weather forecasting. 2½
- 3. Write a note on all five generations of computers discussing their characteristics. Also give examples of computers belonging to each generation. 7½

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Unit - II

- 4. (a) Name the major components of computer hardware & explain them. 5
- (b) Distinguish between files and directories. 2½
- 5. (a) Why is input unit needed in a computer? Discuss various types of input devices. 5
- (b) Write down the advantages of general application software over customized application software. 2½

Unit - III

- 6. Explain the following: 2½ x 3 = 7½
  - (i) Multiprocessing
  - (ii) Multiprogramming
  - (iii) Real-time computing
- 7. (a) Explain the various types of computers available in market. Give example for each type. 5
- (b) What are the advantages of computer networking? 2½

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