[Total No. of Questions - 9] [Total No. of Printed Pages - 2]
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B. Pharmacy 1st Semester Examination

Computer Science & Applications (O.S.)

HBP-111

Time : 3 Hours **Max. Marks : 80**

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt FIVE questions in all, select ONE question from each section A, B, C and D, Section E is compulsory. All question carry equal marks.

SECTION - A

1. (a) Define the computer system? Draw a block diagram of computer and explain the working of each unit.

   (b) Differentiate between RAM, virtual and cache memory with example. **(16)**

2. (a) What is the purpose of secondary storage devices? Explain the working of hard disk with diagram.

   (b) What are the different types of computers? Explain the application of different computer with merits and demerits. **(16)**

SECTION - B

3. Define the operating system and its need? Explain in detail the function of operating system. **(16)**

4. Define the computer network? Explain the architecture and responsibility of all the seven layer of OSI model. **(16)**

SECTION - C

5. Define the computer programming. Explain the low level and high level languages with their application, merits and pitfalls. **(16)**

6. Write a program in C to print numbers from 1 to 100 without using loops. **(16)**

SECTION - D

7. What is computer virus? What are the different types of viruses? Explain how the detection, prevention and cure will be done. **(16)**

8. Explain the role and applications of computer in the development of pharmaceutical industry. **(16)**

SECTION - E (Compulsory)

9. Do the following:

   (a) Differentiate between static and dynamic RAM.

   (b) Explain the working of electronic mail.

   (c) Explain the mail merge process.

   (d) Difference between internal and external commands in DOS.

   (e) What is the decimal equivalent of the following binary fractions: 0.01101, 0.11010, 0.00011. **(16)**