PBL-1603220001010300 Seat No. _____

B. Sc. (Bioinformatics) (Sem. I) (CBCS) Examination

November / December - 2018

BI - 103 : Introduction to Computer Programming

(New Course)

Time : $2\frac{1}{2}$ Hours] [Total Marks : **70**

Instructions : (1) All questions are compulsory.

(2) The right side figure indicates total marks of the question.

1 Attempt the following : **14**

(a) Answer the following questions : (all compulsory) **4**

(1) The word Abacus is derived from Abax, a word from _____.

(2) Who made the Difference Engine ?

(3) ENIAC stands for ?

(4) VGA stands for ?

(b) Answer any **one** of the following short questions. **2**

(1) What is SRM ?

(2) What is BIOS ?

(c) Answer any **one** of the following short questions. **3**

(1) Explain characteristics of computer.

(2) Explain Blue-Ray Disc.

(d) Explain any **one** of the following questions in detail. **5**

(1) Explain generations of computer.

(2) Explain types of printers with appropriate examples.

2 Attempt the following : **14**

(a) Answer the following short questions : (all compulsory) **4**

(1) A hard disk is divided into tracks which are further subdivided into _____.

(2) Devices such as mercury thermometer and kitchen scales are classified as _____

(3) Assembly language and machine language is also called _____.

(4) Parallelogram shaped symbol is used in flowcharts to show the _____.

(b) Answer any **one** of the following short questions. **2**

(1) Define : Firmware.

(2) Define Driver in computer.

(c) Answer any **one** of the following short questions. **3**

(1) Explain programming tool with appropriate example.

(2) Compare compiler and assembler.

(d) Explain any **one** of the following questions in detail. **5**

(1) Explain algorithm. Write an algorithm to print odd numbers from 1 to 25.

(2) Draw a flowchart to print Fibonacci series upto 20 terms.

3 Attempt the following : **14**

(a) Answer the following short questions : (all compulsory) **4**

(1) The main function of the operating system is _____.

(2) DNS stands for.

(3) ATM stands for.

(4) In real time OS, which is the most suitable scheduling scheme ?

(b) Answer any **one** of the following short questions. **2**

(1) Define : Proxy server.

(2) Explain application of Server.

(c) Answer any **one** of the following short questions. **3**

(1) Explain the features of Operating System.

(2) Explain the application of OS.

(d) Answer any **one** of the following questions in detail. **5**

(1) Describe briefly the evolution of server.

(2) Describe briefly evolution of operating system.

4 Attempt following : **14**

(a) Answer the following short questions : (all compulsory) **4**

(1) What is the meaning of 'BCC' in case of E-mail ?

(2) IPV6 addressed have a size of _____.

(3) What is ISP ?

(4) What is VSNL ?

(b) Answer any **one** of the following short questions. **2**

(1) Define : Browser.

(2) Define : Bluetooth.

(c) Answer any **one** of the following short questions. **3**

(1) Explain types of network with appropriate example.

(2) Explain the use of DNS.

(d) Explain any one of the following questions in detail. **5**

(1) Explain Internet Addressing with appropriate examples.

(2) Explain types of Internet Connections.

5 Attempt the following : **14**

(a) Answer the following short questions : (all compulsory) **4**

(1) Which is the nucleus of the Unix Operating System ?

(2) Which command is used to change permission of a file ?

(3) Which command is used to move a file ?

(4) Who is the developer of UNIX operating system ?

(b) Answer any **one** of the following questions : **2**

(1) Define : Kernel.

(2) Define : Shell

(c) Answer any **one** of the following short questions. **3**

(1) What are the features of Korn shell ?

(2) What are the features of Bourne shell ?

(d) Explain any **one** of the following questions in detail : **5**

(1) Write a shell script to check whether the input number is even or odd.

(2) Explain grep commands with appropriate example.
