



JAQ-1603220001010300 Seat No. _____

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

November - 2019

BI - 103 : Introduction to Computer Fundamentals

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 :

(A) Answer the following short questions : 4
(All Compulsory)

- (1) VGA stands for _____
- (2) ENIAC stands for _____
- (3) EDVAC stands for _____
- (4) Who was the father of computer?

(B) Answer Any **One** of the following short questions : 2

- (1) What is BIOS?
- (2) What is SRAM?

(C) Answer Any **One** of the following short questions : 3

- (1) Explain qualities of computer.
- (2) Explain cloud computing.

(D) Explain Any **One** of the following questions in detail: 5

- (1) Describe generation of computer.
- (2) Describe classification of computer.

2 Attempt the following :

(A) Answer the following short questions : **4**

(All Compulsory)

- (1) Which software is built directly in the hardware?
- (2) In real time OS, which is most suitable scheduling scheme?
- (3) Assembly language and machine language is also called _____
- (4) ATM stands for _____ ?

(B) Answer Any **One** of the following short questions : **2**

- (1) Define Driver in computer.
- (2) Define database Server.

(C) Answer Any **One** of the following short questions : **3**

- (1) Explain goals of Server?
- (2) Explain evolution of OS?

(D) Explain Any **One** of the following questions in detail : **5**

- (1) Explain types of server.
- (2) Explain algorithm. Write an algorithm to print Odd numbers from 1 to 65?

3 Attempt the following :

(A) Answer the following short questions : **4**

(All Compulsory)

- (1) Which command is used to delete a file?
- (2) Who is the developer of UNIX operating system?
- (3) _____ is used to display the list of files and folders in long list format in Unix.
- (4) Which command is used to change permission of a file?

(B) Answer Any **One** of the following short questions : **2**

(1) What is Unix?

(2) What is Shell?

(C) Answer Any **One** of the following short questions : **3**

(1) Explain pipe commands and sort commands with different options.

(2) What is the output of following commands: cmp, uniq, head?

(D) Explain Any **One** of the following questions in detail : **5**

(1) Write a note on history of Unix?

(2) Write a note on the types of shell in unix?

4 Attempt the following :

(A) Answer the following short questions : **4**

(All Compulsory)

(1) _____ is used to access positional parameters in shell scripting.

(2) _____ is used to input a value in shell scripting.

(3) _____ is used to display the output in shell scripting.

(4) _____ is used to edit a program in shell scripting.

(B) Answer Any **One** of the following short questions : **2**

(1) Define Shell keywords.

(2) Define Shell variables.

(C) Answer Any **One** of the following short questions : **3**

(1) Explain decision statements in unix?

(2) Explain operators in unix?

(D) Explain Any **One** of the following questions in detail: **5**

- (1) Explain loops in unix. Explain any one loop with proper syntax and example.
- (2) Write a shell script to check whether the input string is a file and also check whether that file has read permission or not.

5 Attempt the following :

(A) Answer the following short questions : **4**

(All Compulsory)

- (1) _____ is used to display the java version in Ubuntu.
- (2) _____ is used to add a new user in Ubuntu.
- (3) _____ is used to delete a user in Ubuntu.
- (4) _____ is used to add a new user group in Ubuntu.

(B) Answer Any **One** of the following short questions : **2**

- (1) What is Linux?
- (2) What is Mint?

(C) Answer Any **One** of the following short questions : **3**

- (1) Explain installation of java in ubuntu.
- (2) Explain installation of apache in ubuntu.

(D) Explain Any **One** of the following questions in detail: **5**

- (1) Explain user administration in Linux in detail.
- (2) Write a note on installing Bioinformatics packages like AutoDock, Gromacs and Blast++ in Linux?