

Mid-West University  
**Examinations Management Office**  
Chance Examinations-2080

Bachelor level/ B.Sc CSIT/7<sup>th</sup> Semester  
Time: 3 hours  
Subject: Advanced Java (COM471)

Full Marks: 60  
Pass Marks: 30

*Candidates are required to give their answers in their own words as far as practicable. Figures in the margins indicate marks.*

**Group A**

**Long questions (Attempt any three)**

**[3x8=24]**

- 1) Create a class Time with data members hours, minutes and seconds, member methods setData() to initialize data, getData() to display the data, addTime() to add two time objects.  
Write main() to create objects and perform necessary tasks to add two time objects.
- 2) Write a program to input two numbers and display larger number using swing.
- 3) Write a servlet program to calculate the factorial of a number supplied from the html form include all the necessary codes in your answer.
- 4) Write client-server program where client provides a number to server and the server returns square of the supplied number to the client.

**Group B**

**Short questions (Attempt any five)**

**[5x4=20]**

- 5) List the advantages of Swing over AWT.
- 6) Write a program to find average marks of a student in five subjects creating a class and necessary data and member methods.
- 7) Write a swing program to calculate volume of a room with given length, breadth and height.
- 8) Write a program to insert a record into a table student with fields: rollno, firstName, lastName and sgpa.  
State necessary assumptions for your code.
- 9) Explain any two layout managers.
- 10) Differentiate between TCP and UDP.

**Group C**

**Very short questions (Attempt all)**

**[8x2=16]**

- 11) What are the most important advantages of Java?
- 12) Why do you need super keyword?
- 13) What is a socket?
- 14) What is event handling?
- 15) Explain the use of throw.
- 16) List the characteristics of java bean.
- 17) How do you create Checkbox in swing?
- 18) What is interface? Write its purpose.

**THE END**