



University of Kelaniya – Faculty of Social Sciences

Academic Year 2015/2016

Bachelor of Arts (Special) Degree Second Year

Second Semester Examination- January 2018

Social Statistics

SOST 32434 – Information Systems and Database Management

Answer Four (04) questions only.

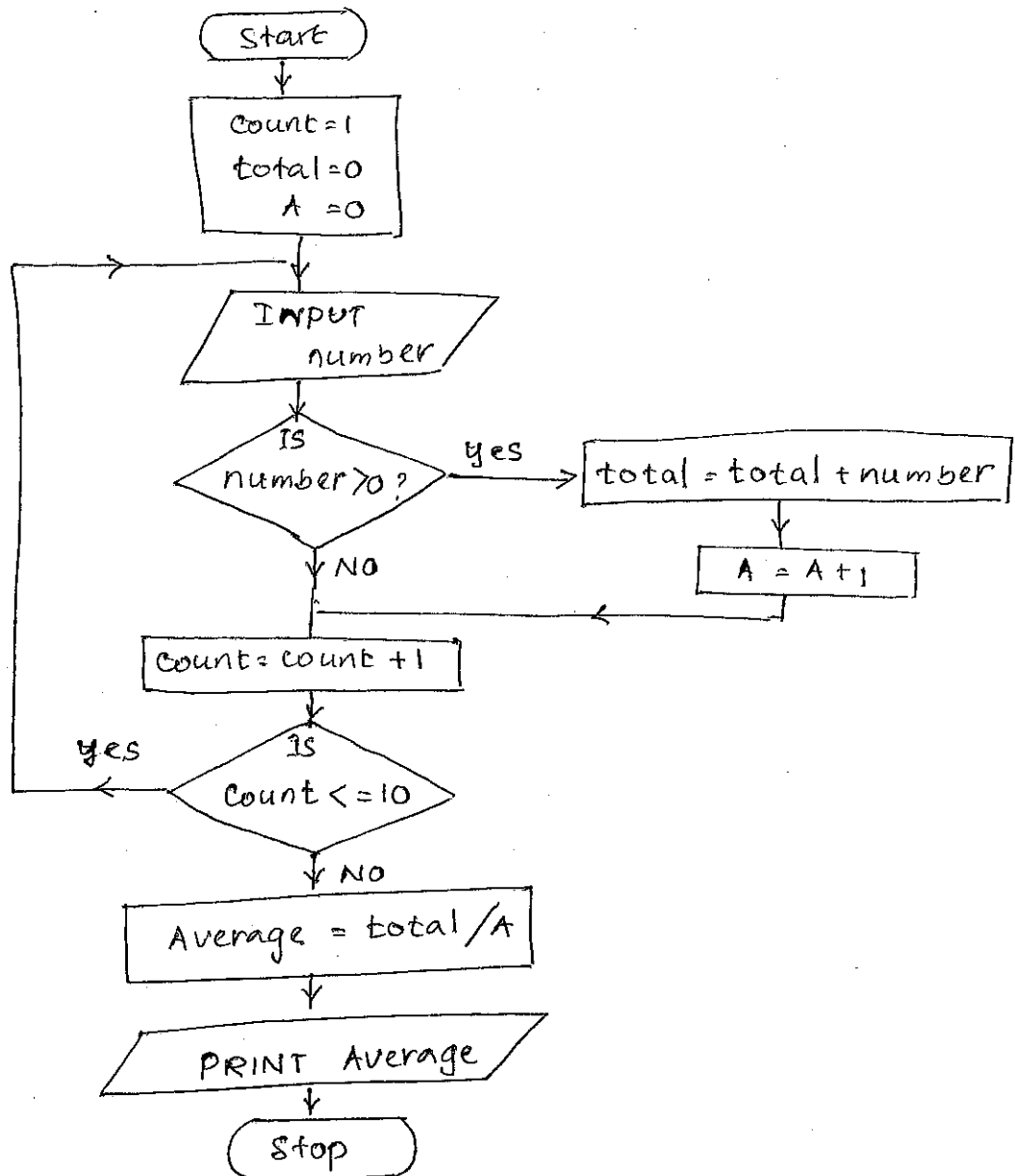
No. of Questions: 07

Time: 03 hours

01.
 - a. Describe the necessity of information in the management of organizations.
 - b. What are the components that make up an Information system?
 - c. Describe each phase of system development life cycle.
 - d. Name four kinds of information systems and discuss the major characteristics of each.

02.
 - a. Explain the basic steps involved in data processing.
 - b. Define database and database management system.
 - c. What are the main functions of database management system?
 - d. Explain the advantages of database management system over traditional file management system.

05. a. Explain uses of flowcharts.
b. Study the following flowchart.



- (i) What control structures are used in this flow chart?

06. a. Describe the factors which make a poor information system.
- b. What are the responsibilities of a data administrator in order to overcome the some of above factors.
- c. Explain main functions of database administrator.

07. Schema defined for a student management information system for a University is;

student (stuID, Firstname, Surname, Coursecode, Sex)

course (Coursecode, courseName, FacultyNo)

Subject (Coursecode, subjectcode, subName)

Marks (stuID, subjectcode, marks)

Write SQL Queries for the following.

- (i) Create the 'student' relation.
- (ii) Retrieve the details of all Female students.
- (iii) List names of students who get more than 85 marks for the subject 'Applied statistics.'
- (iv) What is the average marks for the subject 'Software Development'.
- (v) Delete all details of student number '11234' from the student table.
- (vi) Add examiner's identity number to the subject table.
- (vii) List all courses with appropriate subjects.