## M.Sc. 1st Semester Examination, 2010 REMOTE SENSING AND GIS

PAPER—RSG-104 (Gr.-A/B)

Full Marks: 40

Time: 2 hours

The figures in the right-hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

GROUP-A

(Computer Fundamentals)

[Marks: 20]

Answer any two questions

1. What is meant by 'Generation' in computer terminology? How many generation are there till now? State the basic features of each generation.

1 + 2 + 7

- 2. (a) What is algorithm? What do you mean by flow-chart? Discuss the basic symbols used in flowchart.
  - (b) Draw a flowchart to find out the largest among three numbers. (2+2+2)+4
- 3. Draw a block diagram to illustrate the basic organisation of a computer system and explain the functions of various units of a computer system. 3 + 7
- 4. (a) What are machine language, assembly language and high-level language?
  - (b) What are the advantages and disadvantages of machine language over other types of languages? (2+2+2)+(2+2)

GROUP—B

(C Programming)

[*Marks*: 20]

## Answer any two questions

1. (a) Explain the input and output statements in C language.

- (b) Write a program in C to check whether a number is prime or not. 5+5
- 2. (a) What do you mean by assignment statement? Explain with an example.
  - (b) Discuss the if-else if statement taking appropriate example.
  - (c) Write a program in C to arrange a list of numbers in ascending order. 2+3+5
- 3. (a) How is a looping structure formed in C language? Explain it.
  - (b) Write a program in C to find the sum of the following series:

$$3+5+7+.....+999$$
.  $6+4$ 

- 4. (a) What is header file in C? Why it is used? What is conditional operators?
  - (b) Write a program in C to find area of a circle. (radius in an Input value) (1+2+2)+5