

**M.Sc. 1st Semester Examination, 2011**

**REMOTE SENSING AND GIS**

**PAPER—RSG-104 (Gr.-A + B)**

**( Theory )**

*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. (a) What do you mean by Central Processing Unit (CPU) ? Draw the basic block diagram of CPU and explain its functions.

- (b) Explain the data flow between CPU, memory and I/O devices with diagram.  $(2 + 4) + 4$
2. What is algorithm ? What are the properties to be an algorithm ? Write an algorithm to determine the largest number out of three numbers  $A, B$  and  $C$ .  $2 + 3 + 5$
3. (a) What do you mean by high level languages ? What are the advantages and disadvantages of high level languages ?
- (b) What is an assembler ? Discuss the working of an Assembler ?  $(2 + 2 + 2) + (2 + 2)$
4. (a) What do you mean by compiler and interpreter ? Discuss the basic differences between them.
- (b) Explain the working of a linker with a diagram.  $(2 + 4) + 4$

GROUP – B

( C Programming )

[ Marks : 20 ]

Answer any **two** questions

1. (a) What is variable and constant ? Mention the rules for naming of a variable in C language. How is a variable defined C programming ?

- (b) Write a program in C to find the area and perimeter of a triangle. 5 + 5
2. (a) Explain the arithmetic and relational operators in C programming.
- (b) Write a program in C to find the maximum value in a list of some numbers. 5 + 5
3. (a) What is operator ?
- (b) Explain various operator in C.
- (c) Write a program to check whether a given year is leap year or not. 1 + 4 + 5
4. (a) Write a program to find the biggest value among 10 numbers.
- (b) Write a program to print the reverse of a number. 5 + 5
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