

2017**M.Sc.****1st Semester Examination****REMOTE SENSING AND GIS****PAPER—RSG-104****Subject Code—34***Full Marks : 40**Time : 2 Hours*

The figures in the right-hand margin indicate full marks.

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

Illustrate the answers wherever necessary.

Use Separate answer book for each Group.

Group-A**(Computer Fundamentals)****[Marks : 20]**

Answer any *two* questions.

2×10

1. Describe the basic block diagram of computer. Explain the unit of memory in computer. **10**
2. (a) What are machine language, assembly language and high level language ?

(Turn Over)

- (b) What are the advantages and disadvantages of machine language over other types of languages?

(2+2+2)+(2+2)

3. Define operating system? Compare Multiuser time sharing and multi tasking time sharing operating system? What are the major function of OS? What is process?

10

4. (a) Why the binary number system is utilized for modern electronic digital computers.

(b) Perform the following conversions.

(i) Convert binary $(11001)_2$ to decimal.

(ii) Determine the binary equivalent of $(6BE)_{16}$.

(iii) Determine the binary equivalent of $(17)_{10}$.

(iv) Determine the binary equivalent of $(128)_8$.

2+(4×2)

Group-B**(Programming Language)**

{Marks : 20}

Answer any *two* questions.

2×10

1. (a) What is algorithm in C-program.
- (b) Write an algorithm to find the average of N numbers.
4+6
2. (a) What are the symbols used in flow chart.
- (b) Draw a flow chart to find the biggest value among three numbers.
4+6
3. (a) What are the importance of header file ?
- (b) Why `stdio.h`, `conio.h`, and `getch ()` is used in C-program ?
- (c) What are the different types of operator ? 2+3+5

4. (a) What is the difference between 'While' and do-While' Statement in C-program.
- (b) Write two programs to print a-Z using while and do-while statement separately. 2+8
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