M.Sc. (Final) Examination, 2001 GEOLOGY

Paper-VII

(Sedimentology, Photogeology, Ground-water Geology)

Time Three Hours Maximum Marks: 100

Attempt *five* questions in all.

Select at least *two* from Section-A and *one* each from Section—B and C.

All questions carry equal marks.

Section-A

1. Give the classification of Carbonate rocks and discuss their petrogenesis. 10+10

- Briefly describe the various sedimentary environments. Give the characteristic rocks formed in each of them.
- 3. Give an account of any one of the following: -

20

- (a) Types of transportation in the formation pf -sedimeetaly rocks.
- (b) 'Palaeocurrent study and its application in basin analysis.
- 4. Briefly describe any **two** of the following:

10 + 10

- (a) Sedimentation and Tectonics.
- (b) Classification of Sandstones.
- (c) Mineral stability in Sedimentary rocks.
- (d) Post-depositional changes in Sedimentary rocks.

SECTION-B

- Discuss the application of aerial photographs in the analysis of Geomorphology, mineral exploration, geological structures and ground-water search in brief.

 5+5+5+5
- 6. Write descriptive notes on any **two** of the following:

10 + 10

- (a) Remote sensing.
- (b) Vertical exaggeration.
- (c) Errors and distortions in aerial photographs.
- 7. Give an account of Flight procedures and computation of flight lines. Describe the rectification procedure in aerial photographs. 7+7+6

SECTION-C

- 8. Give the criteria indicating the suitability of water for (i) domestic, (ii) irrigation, and (iii) industrial purposes. **7+7+6**
- 9. How would you proceed to prospect of ground water in following regions:
 - (i) Arid regions.
 - (ii) Deccan Trap country.
 - (iii) Gneiss-Granulite terrain.
 - (iv) Saline tracts. 5+5+5+5

10 + 10

- 10. Write descriptive notes on any **two** of the following:
 - (a) Hydrogeological properties of rocks.
 - (b) Methods of artificial recharge of water.
 - (c) Ground-water provinces of Rajasthan.

PDF created with FinePrint pdfFactory trial version http://www.fineprint.com