

D 91624

Name.....12.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2015

(CUCSS)

Applied Geology

GEL 3C 09—EXPLORATION GEOLOGY

Time : Three Hours

Maximum : 36 Weightage

I. Short Answer Type Questions. Answer *all* questions :

- | | |
|---------------------|---|
| 1 Trenching. | 2 Primary dispersion. |
| 3 Core sample. | 4 Magnetometer. |
| 5 Anomaly. | 6 Gossan. |
| 7 Classifiers. | 8 A plant indicating the presence of groundwater. |
| 9 Love waves. | 10 Caliper logging. |
| 11 Rotary drilling. | 12 Random sampling. |
| 13 Mine hazard. | 14 Ore reserve. |

(14 × 1 = 14 weightage)

II. Short Essay Type Questions. Answer any *seven* questions :

- | | |
|-----------------------------|-------------------------|
| 15 Stopping methods. | 16 Bore hole logging. |
| 17 Drilling mud. | 18 Diffusion anomalies. |
| 19 Refraction method. | 20 Dipole method. |
| 21 Biochemical anomalies. | 22 Grade of ores. |
| 23 Geobotanical indicators. | 24 Aquameter. |

(7 × 2 = 14 weightage)

III. Long Essay. Answer any *two* questions :

- 25 Describe the principles of gravity method of geophysical prospecting. Comment on the recent trends.

Or

- 26 Describe the field procedure of magnetic surveys. Comment on its use in petroleum exploration.
27 Explain the principle of geochemical exploration. Comment on primary dispersion pattern.

Or

- 28 Describe the different types of drilling used in mineral exploration.

(2 × 4 = 8 weightage)