**B. A./B. Sc.: [FINAL YEAR]**

**End Semester Examination (VI Semester: 2020-2021)**

**SEMESTER: [VI] COURSE: [DSE-04]**

**Subject Name with Subject Code: [INTRODUCTION TO GEOPHYSICS-DSE-04] *Date of Examination: 28-09-2021***

***Time: 2 Hours. Total Marks: 60***

***Notes:***

1. Attempt **ALL** parts from **SECTION A** (Total 20 Marks). Each part is of 2 Marks.

2. Attempt any **THREE** parts from **SECTION B** (Total 15 Marks). Each part is of 5 Marks.

3. Attempt any **TWO** parts from **SECTION C** (Total of 25 Marks). Each part is of 12.5 Marks.

4. Attempt all Sections.

5. Marks are written against each Section.

6. Missing data if any may be suitably assumed and mentioned.

**MODEL QUESTIONS**

**SECTION-A [20 Marks]**

Attempt **ALL** parts. All parts carry **TWO** marks. **[2\*10 = 20]**

**Multiple Choice Questions**

**1.**

**2.**

**3.**

**4.**

**5.**

**6.**

**7.**

**8.**

**9.**

**10.**

**SECTION-B [15 Marks]**

Attempt any **THREE** parts. Each part carries **FIVE** marks. **[5\*3 = 15]**

**1.** Write a note on the interrelationship between geology and geophysics.

**2.** Give an account on the basic principle of gravity method of exploration.

**3.**. Write a note on the seismic method for mineral exploration**.**

**4.** Write a note on ambiguities in geophysical planning of geophysical surveys.

**5.** Write a note on ambiguities in geophysical execution of geophysical surveys.

**6.** write down the procedure of Grid survey.

**7.** Why do geologist use geophysical survey?

**8.** What is the aim of geophysical data analysis?

**9.** what do you mean by geophysical survey?

**10.** what do you understand by geophysical survey analysis scales.

**SECTION-C [25 Marks]**

Attempt **TWO** parts. Each part carries **TWELVE AND HALF** marks. **[12.5\*2 = 25]**

**1.** Describe the magnetic methods of exploration with help of neat sketches**.**

**2.** Write a note on the electrical method for mineral exploration**.**

**3.** Give an account on the various geophysical methods used for exploration of mineral deposits.

**4.** Write a note on ambiguities in geophysical interpretation of geophysical surveys.

**5.** Explain Profiling and sounding techniques?

**6.** What is the large scale geophysical survey?

**7.** Write down the application of geophysical survey.

**8.** How the geophysical field operation will help in exploration.

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