**C-14 scheme Mining Geology II (MNG-306)**

**Syllubus bifurcation**

UNIT TEST I (Syllubus**)**

1. Define Stratigraphy
2. State the objectives of Stratigraphy
3. Explain Geological Time Scale
4. State the Physiographic Divisions of India.
5. Describe each of the following systems with their distribution and economic importance Archaeons – Dharwar system - Cuddapah - Vindhyan - Gondwana systems
6. Explain the stratigraphy of A.P and Telangana State

2.1 Define Economic Geology

2.2 Define the terms Ore- Gangue - Tenor, Associated Minerals

2.3 Define the terms: Resource - Reserves

2.4 Define the terms. Proved, Probable, Possible reserves

2.5 List and explain the following processes of mineralization with examples

1) Magmatic Concentration method 2) Metasomatism 3) Metamorphism 4) Hydrothermal process 5) Residual and Mechanical concentration 6) Oxidation and supergene sulphide enrichment 7) Sedimentation 8) Sublimation 9) Evaporation

UNIT TEST II (Syllubus**)**

3.1 State the objectives of Geological prospecting

* 1. List the equipment required for prospecting

3.3 List the Guides for location of mineral Deposits in the Field

3.4 Explain the following geophysical methods of Prospecting while limiting to applicability of each of them.Electrical a) Self Potential method b) Equi-Potential method c) Electromagnetic method d) Resistivity method

1. Gravity
2. Seismic a) Seismic reflection method b) Seismic refraction method
3. Radiometric
   1. State the Periods of coal Formation
   2. Mention the different Stages of Coal formation
   3. Explain the Origin of Coal Seams
   4. Explain the In situ Theory of coal seams formation
   5. Explain the Drift Theory of coal seams formation
   6. Describe the Structural Features of Coal Seams
   7. Give the Classification of Coal based on formation
   8. List the world coal fields
   9. Describe the coalfields of India

**5.0 Know about the Petroleum Geology**

5.1 know the importance of Petroleum as a Fuel

5.2 State the Origin of Petroleum

5.3 State the Migration and Accumulation of Petroleum

5.4 State the distribution of Oil fields in the world

5.5 State the distribution of Oil fields in India

SET-I

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**DIPLOMA IN MINING ENGINEERING – III Semester**

**MINING GEOLOGY - II**

**UNIT TEST-I**

(Time: 1 Hour ) **MAX.MARKS :20**

SECTION- A

**Answer ALL the questions** 3\*2=6

1. Name the plant fossils occurred in the Cuddapah system of Rocks.
2. Define the terms (a) Gangue Mineral (b) Tenor of Ore.
3. Define the term Possible reserves.

SECTION- B

**Answer any TWO** 2\*7=14

1. Explain the Geological Time Scale.
2. Explain the Physiographic Divisions of India.
3. Explain the Hydro thermal deposit process with suitable example.

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**DIPLOMA IN MINING ENGINEERING – III Semester**

**MINING GEOLOGY - II**

**UNIT TEST-I**

(Time: 1 Hour ) **MAX.MARKS :20**

SECTION- A

**Answer ALL the questions** 3\*2=6

1. Define the term Economic geology.
2. Define the terms (a) Stratigraphy (b) Correlation.
3. Define the term Possible reserves.

SECTION- B

**Answer any TWO** 2\*7=14

1. Explain the Cuddapah system of rocks and state its mineral wealth.
2. Explain the Oxidation and Supergene enrichment process.
3. Explain the Early magmatic deposits with suitable example.

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**MINING GEOLOGY - II**

**UNIT TEST-II**

(Time: 1 Hour ) **MAX.MARKS :20**

SECTION- A

**Answer ALL the questions** 3\*2=6

1. State the Periods of coal Formation.
2. Write a short note on Bombay high.
3. List the equipment required for prospecting.

SECTION- B

**Answer any TWO** 2\*7=14

1. Explain the In situ Theory of coal seams formation
2. Explain the Geological prospecting method.
3. Explain the Migration and Accumulation of Petroleum

SET-II

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**DIPLOMA IN MINING ENGINEERING – III Semester**

**MINING GEOLOGY - II**

**UNIT TEST-II**

(Time: 1 Hour ) **MAX.MARKS :20**

SECTION- A

**Answer ALL the questions** 3\*2=6

1. List the Guides for location of mineral Deposits in the Field

2. Mention any four Oil fields in India.

3. Mention the different Stages of Coal formation

SECTION- B

**Answer any TWO** 2\*7=14

1. Describe the electrical method of prospecting.
2. Explain the Drift Theory of coal seams formation.
3. Write an essay on the Origin of Petroleum.