

Code No.: 40109

MR14

**MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)**

(Affiliated to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD)

Gundlapochampally (H), Maisammaguda (V), Medchal (M), Medchal-Malkajgiri (Dist), Hyderabad

**II B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2019**

Subject: ENVIRONMENTAL STUDIES

Branch: MINING

Time: 3 hours

Max. Marks: 75

**PART – A**

**I. Answer ALL questions of the following**

**5x1Mark=5 Marks**

1. What is estuary?
2. What is insitu conservation of biodiversity?
3. List out the Primary and Secondary air pollutants.
4. What is Global Warming?
5. Define the term Sustainable Development.

**II. Answer ALL questions of the following**

**10x2Marks=20 Marks**

1. Write short notes on ecosystem value services.
2. Write about the types of Energy Flow in Ecosystem.
3. Explain consumptive and productive values of biodiversity.
4. Give a brief account on renewable energy sources.
5. What are the causes of soil pollution?
6. Write a note on Fukushima Daiichi Disaster.
7. Write a brief note on rain water harvesting.
8. Explain the classification of Environmental impacts.
9. Give an account of rules to manage biomedical wastes.
10. Explain inter generational equity.

**PART-B**

**Answer ALL questions of the following**

**5x10 Marks= 50Marks**

1. Explain the following with the help of neat diagrams
  - a) Ecological pyramids
  - b) Nitrogen cycle

OR

2. Write in detail of functional concepts of an Ecosystem.

3. a) Define biodiversity. Describe various conservation measures for biodiversity.  
b) What are hotspots of biodiversity? Discuss salient features of hotspots found in India.

OR

4. Write a note on environmental effect of mineral extraction and their uses.  
5. Discuss how E-waste can be managed to prevent environmental pollution.

OR

6. Explain in detail about sources and effects of nuclear radiations.  
7. What are the major causes and consequences of deforestation?

OR

8. Explain methods of base line data acquisition.  
9. Write the concept of green building in detail.

OR

10. Discuss the impacts of the environment on human health.

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**II B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2019**Subject: **EXTRACTION OF MINERAL DEPOSITS**Branch: **Mining****Time: 3 hours****Max. Marks: 75****PART – A****I. Answer ALL questions of the following****5x1M=5 M**

1. What are the different types of Underground and Surface mining methods?
2. What is explosive?
3. What is Percussive drilling?
4. What are the modes of entries for opening a deposit?
5. Define thawing.

**II. Answer ALL questions of the following****10x2M=20 M**

1. Write short notes on distribution of coal & Iron in India?
2. Define cut-off grade.
3. Discuss briefly about safety fuse and detonating fuse.
4. List out different accessories used in blasting.
5. What are different kinds of accessories used in blasting in a below ground mines?
6. What are the objectives of supporting?
7. What are different modes of entry into a mine?
8. What are the cycle of operations to be followed during shaft sinking?
9. Explain about ventilation and lighting in an underground mine?
10. What are the conditions that favor deepening of shaft?

**PART-B****Answer ALL questions of the following****5x10 M= 50M**

1. Differentiate between Underground Mine Methods Vs. Surface Mining Methods? Compare production figures between them?

**OR**

2. Discuss the distribution of following minerals in Telangana state i) Coal ii) Copper iii) limestone iv) iron ore v) granite
3. (a) What is an explosive  
(b) What are the types of explosives?  
(c) Discuss about any one high explosive

**[2+2+6]****OR**

4. Discuss the properties that are to be considered for selection of an explosive.
5. What are different kinds of methods used for drilling? Explain about Percussive - Rotary Drilling with a neat sketch?

**OR**

6. Write a note on hydraulic prop with suitable diagram.
7. Write systematic support rules for depillaring district in a underground coal mine.

**OR**

8. What are the parameters to be considered for locating a site for inclines? Explain briefly the construction of an incline.
9. What is widening of Shaft? How you are going to carry out widening of shaft with a neat sketch?

OR

10. Write a short note on a) Widening of shaft b) Modern techniques of shaft sinking.