

MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

(Affiliated to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD)
Gundlapochampally (H), Maisammaguda (V), Medchal (M), Medchal-Malkajgiri (Dist), Hyderabad

IV B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS, MARCH-2018Branch: **Mining**Subject: **Planning of surface Mining Project**Time: **3 hours**Max. Marks: **75****PART – A****I. Answer All Questions****5x1Mark=5 Marks**

1. What do you understand by Master Plan?
2. Define gestation period.
3. List out the sources of dust formation in OC mines.
4. What are the places that need lighting in OC mines?
5. What do you understand by SME?

II. Answer All Questions**10x2Mark=20 Marks**

1. Define conceptual planning.
2. What is feasibility report?
3. Briefly describe different types of reserves.
4. What are the different techniques available for reserve estimation?
5. List out auxiliary equipments that need to be provided in surface mines.
6. Write the statutory provisions with respect to haul roads.
7. What are the occupational diseases caused by mining?
8. Define EIA.
9. Define mine closure planning.
10. List out the properties of SME

PART-B**Answer All Questions****5x10 Marks= 50Marks****Q1.** Explain different types of planning with suitable examples.**(OR)****Q2.** Explain the different contents to be covered in feasibility report.**Q3.** Explain the different factors to be considered for selection of equipment for OC producing 5MT per annum.**(OR)****Q4.** A mine producing 5 Mt per annum iron ore. Assume you own conditions, estimation the number of drills, shovel and dumpers required to achieve the target.**Q5.** Explain the sources and dust prevention methods in surface mine.**(OR)****Q6.** Explain the measures to be adopted for safe maintenance of dump yards.**Q7.** Discuss the different contents to be considered for an environment impact assessment. Explain with a suitable example.**(OR)****Q8.** Discuss the importance of land reclamation in OC mines. Explain different land reclamation methods.**Q9.** Explain different factors to be considered for mine closure planning. What are the statutory provisions with respect to mine closure planning?**(OR)****Q10.** Sketch and describe electronic detonator operation and applications.