

Code No: RT41264

R13**Set No. 1**

IV B.Tech I Semester Supplementary Examinations, February/March - 2018

MINE LEGISLATION AND GENERAL SAFETY

(Mining Engineering)

Time: 3 hours

Max. Marks: 70

*Question paper consists of Part-A and Part-B**Answer ALL sub questions from Part-A**Answer any THREE questions from Part-B*

PART-A (22 Marks)

1. a) Distinguishes between mines acts and mine regulation? [3]
b) Define the term "Blasters" and "Mine mate" related to MMR? [3]
c) State the various causes of Industrial Dispute? [4]
d) List the Standards of construction for pithead baths? [4]
e) List the duties and responsibilities of Manager? [4]
f) What is Severity and write formula as per Indian mines? [4]

PART-B (3x16 = 48 Marks)

2. a) State the Short title, extent and commencement the MINES AND MINERALS (DEVELOPMENT AND REGULATION) ACT? [8]
b) Define the terms "minerals" "mineral oils" "mining lease" "mining operations" "minor minerals" related to MINES AND MINERALS (DEVELOPMENT AND REGULATION) ACT. [8]
3. a) Explain the safety provisions along underground belt conveyor and its road way as per CMR? [8]
b) Explain the provisions of the MMR for "Ladder and Ladder ways"? [8]
4. a) Explain the provisions related to strike and lockouts? [8]
b) Explain the terms "Earthling system" & "Enclosed Sub-Station" as per IE rules. [8]
5. a) State the provision for Water for pithead baths? [8]
b) Discuss about design, control and monitoring of pit and dump slopes in opencast mines as per DGMS Circular. [8]
6. a) Explain the term "flame proof apparatus and general body of air as per CMR [8]
b) Explain the Provisions related to supports as per MMR? [8]
7. a) A fatal accident took place in a district where pillar extraction is being done by caving put up on accident enquire report, assume your own conditions? [8]
b) Explain the term 'Mine Safety'? [8]