

Total No. of Questions : 8]

[Total No. of Printed Pages : 1

Roll No

MI - 604 (GS)
B.E. VI Semester Examination, June 2020
Grading System (GS)
Underground Metal Mining Code
Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. Sketch and describe construction and working of expansion shell type roof bolt.
2. Compare between Overhand, Underhand and breast stopping with neat sketches.
3. Briefly explain optimum location of main shaft by analytical method.
4. Describe the Jora raise lift raising method with operational details.
5. Briefly explain how the thickness of deposit, dip of deposit and wall condition affect the choice of mining methods.
6. Describe the suitable method of mining for the given condition along with neat sketch.
Thickness of ore body = 4m
Inclination = 70
Ore = Pyrite
Wall strength = Moderate
7. a) What is difference between burn cut pattern and wedge cut pattern?
b) Briefly describe cut and fill method of mining with layout.
8. Define the following : (Any four)
 - a) Footwall
 - b) Shaft pillar
 - c) Inclines shaft
 - d) Cross cut
 - e) Finger raise
 - f) Draw point
 - g) Crown pillar
