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Roll No

MI - 604

B.E. VI Semester

Examination, June 2015

Underground Metal Mining Code

Time: Three Hours

Maximum Marks: 70

Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

- ii) All parts of each questions are to be attempted at one place.
- iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.

iv) Except numericals, Derivation, Design and Drawing etc.

l. a) Define the cutoff grade?

b) Explain the cross cut in underground metal mine?

- c) Discuss the factors which affects the choice of mining methods?
- d) Discuss the following (With figures)
 - i) Back

- ii) Slot raises
- iii) Draw point
- iv) Sub level

Or

Explain the following (With diagrams)

i) Winzes

- ii) Finger raises
- iii) Spherical charge
- iv) Hanging wall
- 2. a) Define the ore pass?
 - b) Explain the level interval?
 - c) Discuss various type of mode of access for underground mine?
 - d) Explain the Alimak type raise climber in detail?

Or

Discuss the Jora raise lift method of raising with diagrams?

- 3. a) Explain the overhand stoping?
 - b) Explain the underhand stoping?
 - c) Discuss the Breast stoping?
 - d) Explain the sublevel stoping method in detail along with diagram?

Or

Discuss the Room and pillar method in detail along with diagram?

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- 4. a) Discuss the applicability of shrinkage stoping?
 - b) Define the square set Timbering.
 - c) Discuss in brief Block caving method?
 - d) Explain cut and fill method in detail along with diagram?

Or

Discuss sub level caving method in detail along with diagram?

- 5. a) Define Back fill?
 - b) Explain grouting in rock?
 - c) Discuss the code of timbering rules in mines.
 - d) Explain the expansion type rock bolt with diagram?

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Discuss the cable bolting technique in detail along with diagram?

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