

B.E. Mining Engineering Eighth Semester
MN802 - Mine Legislation and Safety

P. Pages : 2

Time : Three Hours



GUG/W/18/2082

Max. Marks : 80

- Notes :
1. Due credit will be given to neatness and adequate dimensions.
 2. Assume suitable data wherever necessary.
 3. Retain the construction lines.
 4. Illustrate your answers wherever necessary with the help of neat sketches.
 5. Weightage to the question indicated to its right.

1. a) Give statutory definition of the following? 6
- i) Agent
- ii) Qualified medical practitioner
- iii) Serious Bodily injury.
- b) Explain constitution and function of the committee constituted u/s-12 of the mines act. 10
- OR**
2. a) Enlist role and function of DGMS. 6
- b) Explain statutory processions wrt to drinking water. 10
3. a) Define the following terms as per CMR-2017 6
- i) Auxiliary fan.
- ii) Coalmine methane.
- iii) Competent person.
- b) Give the statutory provision (CMR-'17) regarding Qualification and appointment of manager both for U/G means, & O/C. 6
- c) Give standard of dustiness in case of coal mines. 4

OR

4. a) Define as per CMR - '17 6
- i) Banks man.
- ii) Gassy seam of Ist degree
- iii) Risk.

- b) Give general features of mine plan as per CMR-'17. **6**
- c) Give maxim rope speed wrt depth of shaft in case of man winding as per CMR-'17. **4**
- 5.** a) Define the following term as per MMR- **3x2=6**
- i) Bellman ii) Misfire
- b) Explain as per MMR-duty of manager wrt U/G visit. **6**
- c) Standard of lighting in O/C. **4**

OR

- 6.** a) Write the provisions regarding ladder wrt MMR. **8**
- b) Give Age and qualification of manager as per MMR. **4**
- c) Give standard of Dustiness as applicable in metalliferous mines. **4**
- 7.** a) Enlist various classification of accident (No-sub classification). **6**
- b) Explain various types of losses due to accident. **10**

OR

- 8.** a) Classify various types of accident on the basis of fatalities. **6**
- b) Explain general principles for minimization of accident in mines. **10**
- 9.** Explain.
- a) Provisions of CEA/I.E Rule regarding precaution where gas exist in deg-I gassy seam. **10**
- b) Duty of resine team leader. **6**

OR

- 10.** Explain **16**
- a) Provision wrt FAB.
- b) Accident frequency rate
- c) Voltage limits wrt supply & use of electrical energy in the mines.
