

Final Examination of 7th Sem Mining Engineering students, Dec 2013

Sub: Mines Act, Regulation and Legislation (MN 701)

Full Marks: 70

Time: 3Hrs

*It is obligatory to write all parts of a question at one place
Q No. 1a&b is mandatory and Answer any 5 from the rest*

1. a. i) What is the Managers obligation on procurement of materials for ensuring safety of the underground mines? 5x3
ii) What is the role of overman to ensuring reaching of adequate air at face?
iii) State the places where provisions of SSR shall be applied
iv) Write down the provisions stipulated in Act and MR in respect of drinking water
v) What specific precautions to be taken against irruption of gas ?
- b. Define the following terms – 5x1
i) cold work permit
ii) emergency plan
iii) dust settling ionizers
iv) safety committee
v) byelaws
2. Write down the voltage limits as stated in IER 1956. What are the precautions to be taken where gas exists in any part of 2nd and 3rd deg gassy seam as stated in IER 1956. 3+7
3. Who can be chosen for Workmen's Inspector (WI) of UG mine? State the duties of WI. Write down the standards of shelter. 2+5+3
4. State the standard of ventilation as stipulated in CMR 1957. What are the provisions given in CMR for installing Auxiliary Fan in 2nd / 3rd deg gassy mine? 6+4
5. How Mines Act 1952 can guide OAM in respect of commencing any mining operation? Write down provisions on Powers of Inspectors when causes of danger not expressly provided and employment of persons is dangerous. 2+8
6. Write down the precautions to be observed during blasting in faces which are 4.5m of each other. How do you deal with fire in opencast coal mine as prescribed in Circular? 5+5
7. Write down the provisions from DGMS Circular – 5+5
i) Blasting in fire area
ii) Support of roof and sides in underground coal mine as stated in circular 7/2002
8. What is the function of colliery manager in relation to frame SSR? Write down the code of standing orders regarding formulation and implementation of SSR. 4+6