

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**  
**End Semester Examination, April/May 2018**

**Program Name: B.Tech. in Mining Engineering**  
**Course Name : Legal Aspects of Mining & Cross Boundaries Evaluation**  
**Course Code : MIEG 461**

**Semester – VIII**  
**Max. Marks: 100**  
**Duration : 3 Hrs**

**Instructions: Answer all questions in Section A. For Section B and Section C, internal choices are given between Q5 & Q6 and Q8 & Q9, respectively.**

**SECTION A**

1.	Write short notes or briefly explain the followings:	Marks	CO
a)	What are Conflict Minerals? Give suitable examples	5	CO3
b)	Statement: There has been considerable progress in the methods of boundary making. A whole range of new scientific equipment has been devised. What are the scientific equipment useful in boundary making?	5	CO1
c)	Penalties on Falsification of the Records.	5	CO4
d)	Circulars on Precautions of Air-borne Dust.	5	CO6

**SECTION B**

2	Compare Upstream and Downstream supply-chain of conflict minerals?	10	CO3
3.	Evaluate importance of International boundaries in Mining Industry?	10	CO1
4.	a) What are the Circulars for the Supports of Freshly Exposed Roof? b) Write the Circulars for the Blasting in fire areas.	4+6	CO6
5.	Write down the Provisions of Mines Act for the duties and responsibilities of Owner/ Agent/Manager of a Mine.	10	CO4
OR			
6.	State the provisions of Mines Act for the notification of the Accidents.	10	CO4

**SECTION-C**

7.	a) Write the common causes of accident due to rope haulage. b) ANY FIVE examples of Unsafe Conditions. c) Explain ANY FOUR Safety Promotional Measures to be conducted in Mines.	7+5+8	CO5
8.	From the text below, delineate differences between necessary conflict mineral and inclusion of conflict mineral in the product?	10+10	CO3
OR			
9.	From the text below, delineate differences between conflict mineral is necessary to produce and has the purpose of the product?	10+10	CO3

**STATEMENTS RELATED TO Q8 OR Q9**

### **Necessary to the functionality**

SEC guidance suggests that in determining whether a conflict mineral is “necessary to the functionality” of a product, an issuer should consider:

1. Whether the conflict mineral is intentionally added to the product or any component of the product and is not a naturally occurring by-product
2. Whether the conflict mineral is necessary to the product’s generally expected function, use or purpose
3. If the conflict mineral is incorporated for purposes of ornamentation, decoration or embellishment, whether the primary purpose of the product is ornamentation or decoration

### **Necessary to the production**

SEC guidance suggests that in determining whether a conflict mineral is “necessary to the production” of a product, an issuer should consider:

1. Whether the conflict mineral is intentionally included in the product’s production process, other than if it is included in a tool, machine or equipment used to produce the product (such as computers or power lines)
2. Whether the conflict mineral is included in the product
3. Whether the conflict mineral is necessary to produce the product

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Name:  
Enrolment No:



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**SECTION A**

		<b>Marks</b>	<b>CO</b>
1.	Write short notes or briefly explain the followings:		
a)	Do you agree that conflict mineral is not necessary to produce?	<b>5</b>	<b>CO3</b>
b)	Explain how Congo mining industry is being targeted as conflict mineral zone?	<b>5</b>	<b>CO3</b>
c)	ANY FIVE causes of roof fall accidents.	<b>5</b>	<b>CO5</b>
d)	Circulars on the Manner of Extraction of Pillars.	<b>5</b>	<b>CO6</b>

**SECTION B**

2	Using flowchart differentiate Supply chain management of conflict minerals?	<b>10</b>	<b>CO3</b>
3.	What are the challenges of using minerals from conflicted country from west Asian Country?	<b>10</b>	<b>CO3</b>
4.	a) Write down the Classification of the Accidents. b) Explain the Frequency Rate of Accidents.	<b>6+4</b>	<b>CO5</b>
5.	a) Circulars for reducing the accidents in the Longwall working. b) Write the Circulars for the Blasting in fire areas.	<b>5+5</b>	<b>CO6</b>
	<b>OR</b>		
6.	a) Provide the Table for recommended support system for Freshly Exposed Roof as per the circular. b) Write ANY FOUR Unsafe Acts which may lead to an accident.	<b>6+4</b>	<b>CO6</b>

**SECTION-C**

7.	a) Write the Provisions for the Notification of an Accident. b) What are the Power of the Inspector of Mines? c) Explain the Acts for Prosecution of the Owner/Agent/Manager.	<b>8+6+6</b>	<b>CO4</b>
8.	How natural boundaries need to be demarcated using recent technologies?	<b>20</b>	<b>CO1</b>
	<b>OR</b>		
9.	Identify advanced technologies useful in demarcating international boundaries?	<b>20</b>	<b>CO1</b>