

Code No: 56087

Set No. 1

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**III B.Tech. II Sem., II Mid-Term Examinations, April – 2014**

**UNDERGROUND METAL MINING TECHNOLOGY**

**Objective Exam**

Name: \_\_\_\_\_ Hall Ticket No.

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**Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**

**I Choose the correct alternative:**

1. A large number of working places are always available for the different operations in [      ]  
a) Block Caving      b) Sub Level Caving      c) Longwall method      d) Sub level stoping
2. The capacity of an Air conditioning plant is expressed in tonnes. A 1 tonne Plant removes \_\_\_\_\_  
heat from the air passing through it [      ]  
a) 3000 Kcal / hr      b) 3124 Kcal / hr      c) 3024 Kcal / hr      d) 2024 Kcal / hr
3. Air conditioning plants are required in mines if the depth increases [      ]  
a) 400 m      b) 600 m      c) 800 m      d) 1000 m
4. After caving starts a high rate of production is possible in [      ]  
a) Sub level caving      b) Sublevel stoping      c) Block Caving      d) All the above
5. In the Brine circulation system of Air conditioning plant the brine is [      ]  
a) Weak solution of  $KCl_2$       b) Weak solution of  $NaCl_2$       c) Weak solution of  $CaCl_2$       d) None
6. In Shrinkage stoping the ore is mined by successive over hand lifts of about \_\_\_\_ [      ]  
a) 2 – 3 m      b) 3 – 4 m      c) 2 – 2.5 m      d) 1 – 2.5 m
7. More flexibility and high degree of extraction is possible with [      ]  
a) Shrinkage Stoping      b) Cut and Fill Stoping      c) Sub level stoping      d) Room & Pillar
8. In Block Caving method, Caving of Block is [      ]  
a) Difficult to control      b) Easy to Control      c) Not possible to control      d) None
9. In what method the ore is divided in to large blocks with a horizontal cross section [      ]  
a) Sub Level Caving      b) Block Caving      c) Open stope      d) Sub level stoping
10. In which method a temporary accumulation of broken ore in the stope [      ]  
a) Cut and Fill      b) Shrinkage      c) Over hand      d) Under Hand

**Cont.....2**

**II Fill in the blanks**

11. Insitu Leaching method uses \_\_\_\_\_ and \_\_\_\_\_ leaching agents
12. An economic measure of out put per unit of input \_\_\_\_\_
13. ISL ( In-Situ Leaching ) mines in U.S.A normally use \_\_\_\_\_ leaching agents.
14. Long Wall method is used in thin ore deposits of \_\_\_\_\_ to \_\_\_\_\_ m thick
15. \_\_\_\_\_ and \_\_\_\_\_ Patterns are used in Insitu Leaching Method.
16. Hanging wall and face can be conveniently examined in \_\_\_\_\_ method
17. There is a possibility of spontaneous combustion in ores in \_\_\_\_\_ Stoping method.
18. The flexibility and high degree of extraction is possible with \_\_\_\_\_ method of stoping.
19. Continuous availability of ore as there is no Suspension of work for filling in \_\_\_\_\_ method.
20. \_\_\_\_\_ types of wells are used in In-Situ Leaching.

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Set No. 2

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**III B.Tech. II Sem., II Mid-Term Examinations, April – 2014**

**UNDERGROUND METAL MINING TECHNOLOGY**

**Objective Exam**

Name: \_\_\_\_\_ Hall Ticket No.

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|--|--|--|--|--|--|---|--|--|--|--|
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**Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**

**I Choose the correct alternative:**

1. After caving starts a high rate of production is possible in [      ]  
a) Sub level caving    b) Sublevel stoping    c) Block Caving    d) All the above
2. In the Brine circulation system of Air conditioning plant the brine is [      ]  
a) Weak solution of  $KCl_2$     b) Weak solution of  $NaCl_2$     c) Weak solution of  $CaCl_2$     d) None
3. In Shrinkage stoping the ore is mined by successive over hand lifts of about \_\_\_\_ [      ]  
a) 2 – 3 m    b) 3 – 4 m    c) 2 – 2.5 m    d) 1 – 2.5 m
4. More flexibility and high degree of extraction is possible with [      ]  
a) Shrinkage Stoping    b) Cut and Fill Stoping    c) Sub level stoping    d) Room & Pillar
5. In Block Caving method, Caving of Block is [      ]  
a) Difficult to control    b) Easy to Control    c) Not possible to control    d) None
6. In what method the ore is divided in to large blocks with a horizontal cross section [      ]  
a) Sub Level Caving    b) Block Caving    c) Open stope    d) Sub level stoping
7. In which method a temporary accumulation of broken ore in the stope [      ]  
a) Cut and Fill    b) Shrinkage    c) Over hand    d) Under Hand
8. A large number of working places are always available for the different operations in [      ]  
a) Block Caving    b) Sub Level Caving    c) Longwall method    d) Sub level stoping
9. The capacity of an Air conditioning plant is expressed in tonnes. A 1 tonne Plant removes \_\_\_\_\_ heat from the air passing through it [      ]  
a) 3000 Kcal / hr    b) 3124 Kcal / hr    c) 3024 Kcal / hr    d) 2024 Kcal / hr
10. Air conditioning plants are required in mines if the depth increases [      ]  
a) 400 m    b) 600 m    c) 800 m    d) 1000 m

**Cont.....2**

**II Fill in the blanks**

11. Long Wall method is used in thin ore deposits of \_\_\_\_\_ to \_\_\_\_\_ m thick
12. \_\_\_\_\_ and \_\_\_\_\_ Patterns are used in Insitu Leaching Method.
13. Hanging wall and face can be conveniently examined in \_\_\_\_\_ method
14. There is a possibility of spontaneous combustion in ores in \_\_\_\_\_ Stoping method.
15. The flexibility and high degree of extraction is possible with \_\_\_\_\_ method of stoping.
16. Continuous availability of ore as there is no Suspension of work for filling in \_\_\_\_\_ method.
17. \_\_\_\_\_ types of wells are used in In-Situ Leaching.
18. Insitu Leaching method uses \_\_\_\_\_ and \_\_\_\_\_ leaching agents
19. An economic measure of out put per unit of input \_\_\_\_\_
20. ISL ( In-Situ Leaching ) mines in U.S.A normally use \_\_\_\_\_ leaching agents.

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Set No. 3

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**III B.Tech. II Sem., II Mid-Term Examinations, April – 2014**

**UNDERGROUND METAL MINING TECHNOLOGY**

**Objective Exam**

Name: \_\_\_\_\_ Hall Ticket No.

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|--|--|--|--|--|--|---|--|--|--|--|
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|--|--|--|--|--|--|---|--|--|--|--|

**Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**

**I Choose the correct alternative:**

1. In Shrinkage stoping the ore is mined by successive over hand lifts of about \_\_\_\_ [      ]  
a) 2 – 3 m                      b) 3 – 4 m                      c) 2 – 2.5 m                      d) 1 – 2.5 m
2. More flexibility and high degree of extraction is possible with [      ]  
a) Shrinkage Stopping   b) Cut and Fill Stopping   c) Sub level stoping   d) Room & Pillar
3. In Block Caving method, Caving of Block is [      ]  
a) Difficult to control   b) Easy to Control   c) Not possible to control   d) None
4. In what method the ore is divided in to large blocks with a horizontal cross section [      ]  
a) Sub Level Caving   b) Block Caving   c) Open stope   d) Sub level stoping
5. In which method a temporary accumulation of broken ore in the stope [      ]  
a) Cut and Fill   b) Shrinkage   c) Over hand   d) Under Hand
6. A large number of working places are always available for the different operations in [      ]  
a) Block Caving   b) Sub Level Caving   c) Longwall method   d) Sub level stoping
7. The capacity of an Air conditioning plant is expressed in tonnes. A 1 tonne Plant removes \_\_\_\_\_ heat from the air passing through it [      ]  
a) 3000 Kcal / hr   b) 3124 Kcal / hr   c) 3024 Kcal / hr   d) 2024 Kcal / hr
8. Air conditioning plants are required in mines if the depth increases [      ]  
a) 400 m   b) 600 m   c) 800 m   d) 1000 m
9. After caving starts a high rate of production is possible in [      ]  
a) Sub level caving   b) Sublevel stoping   c) Block Caving   d) All the above
10. In the Brine circulation system of Air conditioning plant the brine is [      ]  
a) Weak solution of  $KCl_2$    b) Weak solution of  $NaCl_2$    c) Weak solution of  $CaCl_2$    d) None

**Cont.....2**

**II Fill in the blanks**

11. Hanging wall and face can be conveniently examined in \_\_\_\_\_ method
12. There is a possibility of spontaneous combustion in ores in \_\_\_\_\_ Stopping method.
13. The flexibility and high degree of extraction is possible with \_\_\_\_\_ method of stopping.
14. Continuous availability of ore as there is no Suspension of work for filling in \_\_\_\_\_ method.
15. \_\_\_\_\_ types of wells are used in In-Situ Leaching.
16. Insitu Leaching method uses \_\_\_\_\_ and \_\_\_\_\_ leaching agents
17. An economic measure of out put per unit of input \_\_\_\_\_
18. ISL ( In-Situ Leaching ) mines in U.S.A normally use \_\_\_\_\_ leaching agents.
19. Long Wall method is used in thin ore deposits of \_\_\_\_\_ to \_\_\_\_\_ m thick
20. \_\_\_\_\_ and \_\_\_\_\_ Patterns are used in Insitu Leaching Method.

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Set No. 4

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**III B.Tech. II Sem., II Mid-Term Examinations, April – 2014**

**UNDERGROUND METAL MINING TECHNOLOGY**

**Objective Exam**

Name: \_\_\_\_\_ Hall Ticket No.

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|--|--|--|--|--|--|---|--|--|--|--|
|  |  |  |  |  |  | A |  |  |  |  |
|--|--|--|--|--|--|---|--|--|--|--|

**Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**

**I Choose the correct alternative:**

1. In Block Caving method, Caving of Block is [      ]  
a) Difficult to control   b) Easy to Control   c) Not possible to control   d) None
2. In what method the ore is divided in to large blocks with a horizontal cross section [      ]  
a) Sub Level Caving   b) Block Caving   c) Open stope   d) Sub level stoping
3. In which method a temporary accumulation of broken ore in the stope [      ]  
a) Cut and Fill   b) Shrinkage   c) Over hand   d) Under Hand
4. A large number of working places are always available for the different operations in [      ]  
a) Block Caving   b) Sub Level Caving   c) Longwall method   d) Sub level stoping
5. The capacity of an Air conditioning plant is expressed in tonnes. A 1 tonne Plant removes \_\_\_\_\_ heat from the air passing through it [      ]  
a) 3000 Kcal / hr   b) 3124 Kcal / hr   c) 3024 Kcal / hr   d) 2024 Kcal / hr
6. Air conditioning plants are required in mines if the depth increases [      ]  
a) 400 m   b) 600 m   c) 800 m   d) 1000 m
7. After caving starts a high rate of production is possible in [      ]  
a) Sub level caving   b) Sublevel stoping   c) Block Caving   d) All the above
8. In the Brine circulation system of Air conditioning plant the brine is [      ]  
a) Weak solution of  $KCl_2$    b) Weak solution of  $NaCl_2$    c) Weak solution of  $CaCl_2$    d) None
9. In Shrinkage stoping the ore is mined by successive over hand lifts of about \_\_\_\_ [      ]  
a) 2 – 3 m   b) 3 – 4 m   c) 2 – 2.5 m   d) 1 – 2.5 m
10. More flexibility and high degree of extraction is possible with [      ]  
a) Shrinkage Stoping   b) Cut and Fill Stoping   c) Sub level stoping   d) Room & Pillar

**Cont.....2**

**II Fill in the blanks**

11. The flexibility and high degree of extraction is possible with \_\_\_\_\_ method of stoping.
12. Continuous availability of ore as there is no Suspension of work for filling in \_\_\_\_\_ method.
13. \_\_\_\_\_ types of wells are used in In-Situ Leaching.
14. Insitu Leaching method uses \_\_\_\_\_ and \_\_\_\_\_ leaching agents
15. An economic measure of out put per unit of input \_\_\_\_\_
16. ISL ( In-Situ Leaching ) mines in U.S.A normally use \_\_\_\_\_ leaching agents.
17. Long Wall method is used in thin ore deposits of \_\_\_\_\_ to \_\_\_\_\_ m thick
18. \_\_\_\_\_ and \_\_\_\_\_ Patterns are used in Insitu Leaching Method.
19. Hanging wall and face can be conveniently examined in \_\_\_\_\_ method
20. There is a possibility of spontaneous combustion in ores in \_\_\_\_\_ Stopping method.

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