

Code No: 58110

Set No. 1

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

IV B.Tech. II Sem., II Mid-Term Examinations, April-2014

PLANNING OF UNDERGROUND COAL MINING PROJECT

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. In aboard and pillar mining, the width of the pillar and galleries are 19.5m and 3m respectively, the percentage of extraction development is []
a) 24.8 b) 25.2 c) 29.3 d) 30.5
2. The drilling method which can apply for most wider range of depth is []
a) Percussive drilling b) cable drilling c) Diamond drilling d) caly shot drilling
3. Which one of the following HEMM is a tyre mounted []
a) LHD b) SDL c) DOZER d) SHOVEL
4. The maximum number of faces available for working in a shift in a 5 heading board and pillar development district is []
a) 10 b) 12 c) 13 d) 15
5. The method of mining a coal seam 8.5m thick is by []
a) B&P method in lifts b) L/W method in lifts
c) A combination of B&P and L/W method d) L/W sublevel caving
6. A seam is worked at a depth of 70m from surface and the width of the galleries is 3.2m, the dimension of pillars should not exceed []
a) 15.0m b) 16.5m c) 19.5m d) 13.5m
7. In board and pillar panels worked in conjunction with hydraulic stowing, extraction line preferred is []
a) Step diagonal b) Diagonal c) steep diagonal d) straight line
8. Contiguous seams means the parting between two seam is within []
a) 10m b) 9m c) 8m d) 12m
9. A board and pillar panel will be developed with square pillars of size 25m and an extraction ratio of 30% the width of the gallery in m is []
a) 4.2 b) 4.6 c) 4.8 d) 5.3
10. The mining method used in thick and steep cod seam, where the slices are neither horizontal nor parallel to the inclination of the seam is called []
a) Transverse slices b) inclined slicing c) horizontal slicing d) integral caving

Cont.....2

II Fill in the Blanks:

11. Deflagration is _____
12. The ground in central portion of the subsidence trough is subjected to _____
13. Powder factor (P.F) = _____
14. Incubation period of coal is _____
15. Formula strength of pillar = _____
16. The maximum permissible charge in a shot hole as per D.G.M.S 1st degree mines P5 is _____ gms.
17. In rock blasting the term Impedance of medium is the product of _____
18. Emulsion explosive is a mixture of _____
19. The place in a mine, where explosive is stored is called _____
20. Average grade of an ore bloke can be determined by average grade of block _____

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Set No. 2

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

I. Choose the correct alternative:

1. The maximum number of faces available for working in a shift in a 5 heading board and pillar development district is []
a) 10 b) 12 c) 13 d) 15
2. The method of mining a coal seam 8.5m thick is by []
a) B&P method in lifts b) L/W method in lifts
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3. A seam is worked at a depth of 70m from surface and the width of the galleries is 3.2m, the dimension of pillars should not exceed []
a) 15.0m b) 16.5m c) 19.5m d) 13.5m
4. In board and pillar panels worked in conjunction with hydraulic stowing, extraction line preferred is []
a) Step diagonal b) Diagonal c) steep diagonal d) straight line
5. Contiguous seams means the parting between two seam is within []
a) 10m b) 9m c) 8m d) 12m
6. A board and pillar panel will be developed with square pillars of size 25m and an extraction ratio of 30% the width of the gallery in m is []
a) 4.2 b) 4.6 c) 4.8 d) 5.3
7. The mining method used in thick and steep coal seam, where the slices are neither horizontal nor parallel to the inclination of the seam is called []
a) Transverse slices b) inclined slicing c) horizontal slicing d) integral caving
8. In board and pillar mining, the width of the pillar and galleries are 19.5m and 3m respectively, the percentage of extraction development is []
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9. The drilling method which can apply for most wider range of depth is []
a) Percussive drilling b) cable drilling c) Diamond drilling d) caly shot drilling
10. Which one of the following HEMM is a tyre mounted []
a) LHD b) SDL c) DOZER d) SHOVEL

Cont.....2

II Fill in the Blanks:

11. Incubation period of coal is _____
12. Formula strength of pillar = _____
13. The maximum permissible charge in a shot hole as per D.G.M.S 1st degree mines P5 is _____ gms.
14. In rock blasting the term Impedance of medium is the product of _____
15. Emulsion explosive is a mixture of _____
16. The place in a mine, where explosive is stored is called _____
17. Average grade of an ore bloke can be determined by average grade of block _____
18. Deflagration is _____
19. The ground in central portion of the subsidence trough is subjected to _____
20. Powder factor (P.F) = _____

Code No: 58110

Set No. 3

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

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

I. Choose the correct alternative:

1. A seam is worked at a depth of 70m from surface and the width of the galleries is 3.2m, the dimension of pillars should not exceed []
a) 15.0m b) 16.5m c) 19.5m d) 13.5m
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3. Contiguous seams means the parting between two seam is within []
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4. A board and pillar panel will be developed with square pillars of size 25m and an extraction ratio of 30% the width of the gallery in m is []
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9. The maximum number of faces available for working in a shift in a 5 heading board and pillar development district is []
a) 10 b) 12 c) 13 d) 15
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a) B&P method in lifts b) L/W method in lifts
c) A combination of B&P and L/W method d) L/W sublevel caving

Cont.....2

II Fill in the Blanks:

11. The maximum permissible charge in a shot hole as per D.G.M.S 1st degree mines P5 is _____ gms.
12. In rock blasting the term Impedance of medium is the product of _____
13. Emulsion explosive is a mixture of _____
14. The place in a mine, where explosive is stored is called _____
15. Average grade of an ore bloke can be determined by average grade of block _____
16. Deflagration is _____
17. The ground in central portion of the subsidence trough is subjected to _____
18. Powder factor (P.F) = _____
19. Incubation period of coal is _____
20. Formula strength of pillar = _____

Code No: 58110

Set No. 4

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

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2. A board and pillar panel will be developed with square pillars of size 25m and an extraction ratio of 30% the width of the gallery in m is []
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a) 15.0m b) 16.5m c) 19.5m d) 13.5m
10. In board and pillar panels worked in conjunction with hydraulic stowing, extraction line preferred is []
a) Step diagonal b) Diagonal c) steep diagonal d) straight line

Cont.....2

II Fill in the Blanks:

11. Emulsion explosive is a mixture of _____
12. The place in a mine, where explosive is stored is called _____
13. Average grade of an ore bloke can be determined by average grade of block _____
14. Deflagration is _____
15. The ground in central portion of the subsidence trough is subjected to _____
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