Week 6 Assignment 6
The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

1) In which explosive, the VOD of the explosive is lesser than the velocity of sound.  
   1 point
   - (a) TNT
   - (b) Gun powder
   - (c) ANFO
   - (d) Pentolite

No, the answer is incorrect.
Score: 0
Accepted Answers:
(b) Gun powder

2) Uncharged hole in burn cut blasting pattern helps in providing  
   1 point
   - (a) Free face to the holes blasted at first delay
   - (b) For better alignment by providing the center line
   - (c) For gas pressure release
   - (d) None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
(a) Free face to the holes blasted at first delay

3) The licensed storage premises meant for explosives is known as__________  
   1 point
   - (a) Shelter
   - (b) Magazine

No, the answer is incorrect.
Score: 0
Accepted Answers:
(b) Magazine
4) Following which factor does NOT influence the amount of explosive to be charged in a single shot hole.

(a) Bench height
(b) Nature of strata to be broken
(c) Length of burden
(d) Length of NONEL

No, the answer is incorrect.
Score: 0
Accepted Answers:
(d) Length of NONEL

5) As per the explosives rule, not more than ________ numbers detonators are not transported at a time.

(a) 100
(b) 200
(c) 300
(d) 400

No, the answer is incorrect.
Score: 0
Accepted Answers:
(b) 200

6) Insufficient stemming results in ____________

(a) Excessive crushing of the rock
(b) Excessive vibration level
(c) Blown out shot
(d) Reduction in fly rocks

No, the answer is incorrect.
Score: 0
Accepted Answers:
(c) Blown out shot

7) Explosives should never be stored along with ____________

(a) Cast boosters
(b) Detonating cord
(c) Non-electric blasting caps
(d) All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
(d) All of the above

8) Full form of PETN, used in detonating fuse is ____________

(a) Pentaetharane tetra nitrate
(b) Pentaerythritol trinitrate
(c) Pentaerythritol tetra nitrate
9) Identify the pattern of surface blasting given in the figure. The values of delay time, in ms, are given against each blasthole.

No, the answer is incorrect.
Score: 0
Accepted Answers:
(c) Pentaerythritol tetra nitrate

10) For a delay blasting of 10 circuits, a sequential timer is set on 25 ms between circuit initiations. If the nominal firing time of a detonator is 400 ms, the last hole will be blasted at _________ ms.

No, the answer is incorrect.
Score: 0
Accepted Answers:
(c) 625

11) Find out the production (in tonne) from the given blast design
Number of holes = 30
Burden = 3 m
Spacing = 4 m
Bench height = 10 m
Charge column length = 8 m
Stemming = 3 m
Linear charge concentration = 18 kg/m
Unit weight of the blasted material = 2.5 tonne/m³
12. Based on the classification of explosives as per explosives rules, choose the correct combination.

<table>
<thead>
<tr>
<th>Category</th>
<th>Explosives</th>
</tr>
</thead>
<tbody>
<tr>
<td>P- Class 1</td>
<td>1- Nitro compounds</td>
</tr>
<tr>
<td>Q- Class 2</td>
<td>2- Chlorate mixture</td>
</tr>
<tr>
<td>R- Class 3</td>
<td>3- Nitrate mixture</td>
</tr>
<tr>
<td>S- Class 4</td>
<td>4- Gun powder</td>
</tr>
</tbody>
</table>

- (a) P-1, Q-2, R-4, S-3
- (b) P-4, Q-2, R-1, S-3
- (c) P-4, Q-3, R-1, S-2
- (d) P-1, Q-3, R-4, S-2

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Numeric) 9000

13. A blast is carried out in a coal mine bench of height 12 m with burden and spacing 4.5 m and 9 m respectively. The drilling is carried out by a 250 mm diameter DTH drill with a sub-grade drilling of 2 m. Explosive used for this blast is ANFO with specific gravity of 0.8. There are 40 numbers of holes blasted with stemming height of 4 m. Find out the total quantity of explosives used for this blast, in kg.

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Range) 15600,15800