## Unit 6 - Week 5

### Week 5 Assignment

The due date for submitting this assignment has passed. Due on 2018-09-12, 23:59 IST.

As per our records you have not submitted this assignment.

1) Which property is, in general, not evaluated for an explosive?
   - (a) Velocity of Detonation (mm/s)
   - (b) Density (gm/cc)
   - (c) Compressive strength (MPa)
   - (d) Weight strength (Jule/g)

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   (c) Compressive strength (MPa)

2) Cast boosters are used in
   - (a) As a primer with the bulk SME explosives
   - (b) As a primer in underground coal mine
   - (c) As a primer in blasting of the solid
   - (d) None of the above

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   (a) As a primer with the bulk SME explosives

3) Burden is the distance between
   - (a) Two blast holes in same row
   - (b) Distance between two holes blasted at same delay
   - (c) Distance between first row of blast holes and bench crest
   - (d) Distance between two holes blasted in consecutive delay

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   (c) Distance between first row of blast holes and bench crest

4) Deflagration is
   - (a) Rapid explosion
   - (b) Burning and explosion
   - (c) Rapid burning but not an explosion
   - (d) Change in the inclination of drill hole

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   (c) Rapid burning but not an explosion

5) The smallest diameter below which the detonation will NOT propagate along a column of explosive is called__________

   - (a) Critical diameter

   (b) Optimal diameter

   (c) Essential diameter

   (d) None of the above

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   (a) Critical diameter
6) Permitted explosives are safe to use in explosive environment because
   - (a) They have less strength
   - (b) They have low velocity of detonation
   - (c) They do not produce much noise during blasting
   - (d) They contain sheathing agent

   No, the answer is incorrect.
   Score: 0

   Accepted Answers:
   (d) They contain sheathing agent

7) In rock blasting the term “impedance of medium” is the product of
   - (a) Wave pressure and Poisson’s ratio
   - (b) Wave pressure and density of the medium
   - (c) Propagation velocity and Poisson’s ratio
   - (d) Propagation velocity and density of the medium

   No, the answer is incorrect.
   Score: 0

   Accepted Answers:
   (d) Propagation velocity and density of the medium

8) Which of the following labeled is correct based on the given figure?

   (a) P- Burden, Q- Charge length, T- Stemming, W – Spacing
   (b) R- Charge length, S- Toe of the bench, U- Crest of the bench, W – Burden
   (c) V- Bench height, P- Spacing, R- Charge length, Q- Burden
   (d) S- Charge length, Q- Spacing, T- Sub-grade drilling, U- Toe of the bench

   No, the answer is incorrect.
   Score: 0

   Accepted Answers:
   (d) S- Charge length, Q- Spacing, T- Sub-grade drilling, U- Toe of the bench

9) The absolute amount of energy and density of a booster and ANFO are given below:

<table>
<thead>
<tr>
<th>Explosive type</th>
<th>Energy (cal/g)</th>
<th>Density (g/cc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Booster</td>
<td>4200</td>
<td>1.25</td>
</tr>
<tr>
<td>ANFO</td>
<td>912</td>
<td>0.81</td>
</tr>
</tbody>
</table>

   The relative bulk strength of booster with respect to ANFO of booster is ____________

   No, the answer is incorrect.
   Score: 0

   Accepted Answers:
   (Type: Range) 7.10,7.12

10) An emulsion explosive of specific gravity 1.25 is used for blasting in an iron ore formation having P-wave velocity of 3000 m/s and specific gravity of 3.20. For an explosive impedance to rock impedance ratio of 0.5, the desired velocity of detonation of the explosive in m/s is ____________

   No, the answer is incorrect.
   Score: 0

   Accepted Answers:
11) For a 25 mm diameter spherical charge, the allowable charge length in cm should be less than ________.

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Numeric) 15.0