Week 7 Assignment

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

1) A bullet is fired from a pistol, the unwanted sound generated from that firing, can be categorized under which type of noise? 1 point

- (a) Continuous noise
- (b) Intermediate noise
- (c) Repetitive noise
- (d) Impulsive noise

No, the answer is incorrect.
Score: 0
Accepted Answers:
(d) Impulsive noise

2) The wave, which produces particle motion only in the same direction of its propagation, is called ____________ 1 point

- (a) P – wave
- (b) S- wave
- (c) Rayleigh wave
- (d) Love wave

No, the answer is incorrect.
Score: 0
Accepted Answers:
(a) P – wave

3) The body wave, which produces particle motion perpendicular to the direction of propagation, is called ____________ 1 point

- (a) P – wave
- (b) S- wave
- (c) Rayleigh wave
- (d) Love wave

No, the answer is incorrect.
Score: 0
Accepted Answers:
(a) P – wave
4) The surface wave, which produces particle motion both in the vertical direction as well as parallel to its direction of propagation is called___________.

- (a) P-wave
- (b) S-wave
- (c) Rayleigh wave
- (d) Love wave

No, the answer is incorrect.
Score: 0

Accepted Answers:
(c) Rayleigh wave

5) The figure shown below is an underground blasting face showing different types of blast holes' position according to the blasting terminology. Match the correct combination from the given option.

Terminology
1- Cut holes
2- Cut spreader holes
3- Stoping holes
4- Roof contour holes
5- Wall contour holes
6- Lifter holes

- (a) P-2, Q-3, R-1, S-4, T-6, U-5
- (b) P-1, Q-3, R-4, S-2, T-6, U-5
- (c) P-1, Q-5, R-2, S-6, T-1, U-4
- (d) P-1, Q-2, R-3, S-5, T-4, U-6

No, the answer is incorrect.
Score: 0

Accepted Answers:
(d) P-1, Q-2, R-3, S-5, T-4, U-6

6) The time period of a sinusoidal wave is 0.005 seconds. The frequency of the wave is____ Hz.

- (a) 20
- (b) 50
- (c) 200
- (d) 500
7) The following figure shows the designed blast pattern of a bench. The linear charge concentration is 18 kg/m. If the unit weight of the blasted material is 2.5 tonne/m³, the powder factor for the blast in tonne/kg is __________

![Blast Pattern Diagram]

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

8) In a 4.2 m wide and 3.0 m high gallery in a coal seam, twelve shot holes are blasted per round. The holes are charged with 2 explosive cartridges of 435 g each. If the powder factor of the blast is 2.2 tonne/kg and specific gravity of coal is 1.4, the pull per round of blast in m is __________

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
(Type: Range) 2.2,2.15

9) The noise level measured during the operation of a jackhammer are given below:

<table>
<thead>
<tr>
<th>Noise level</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 dB</td>
<td>30 min</td>
</tr>
<tr>
<td>80 dB</td>
<td>15 min</td>
</tr>
<tr>
<td>85 dB</td>
<td>10 min</td>
</tr>
</tbody>
</table>

The equivalent noise level (Leq) in dBA calculated from these data is __________

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
(Type: Range) 1.30,1.31
A blast vibration was monitored by using a seismograph and the Particle Velocity (PV) obtained at time 't' in respective longitudinal, transverse and vertical axis are as follows:

<table>
<thead>
<tr>
<th>PPV</th>
<th>Tran</th>
<th>Vert</th>
<th>Long</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>18.92</td>
<td>21.21</td>
<td>22.10</td>
</tr>
</tbody>
</table>

Find the Vector Sum (VS) at time 't' in mm/s

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Range) 79,80

In a typical surface blast, the charge weight per delay was 100 kg and the vibration reading was taken at a distance 200 m behind the last row of the blastholes. Then, find out the square root scaling distance?

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Numeric) 20