Unit 4 - Week 2: Sustainable Grinding Process

Assignment 2
Due on 2020-02-12, 23:59 IST.

1. Respiratory irritation and asthma are mainly caused by ________.
   a) Oxides of metals  
   b) Crust  
   c) Noise of the above  
   d) None of the above
   
   Acceptable Answers:  
   a) Oxides of metals

2. Which of the following cutting fluid application techniques is considered as Cool-Hands?  
   a) Pelting  
   b) Jet application  
   c) Mist application  
   d) All of the above
   
   Acceptable Answers:  
   a) Pelting

3. The temperature of which is significantly lower than its pure metal because of incomplete combustion is ________.
   a) 160 degree C  
   b) 150 degree C  
   c) 360 degree C  
   d) 450 degree C
   
   Acceptable Answers:  
   a) 160 degree C

4. Choose the CORRECT statement about functions of cooling fluids:  
   a) To reduce the amount of heat generation  
   b) To flush the chips formed  
   c) To provide cooling and lubrication  
   d) To reduce the hardness of workpieces  
   e) To all of the above
   
   Acceptable Answers:  
   a) To reduce the amount of heat generation,  
   b) To flush the chips formed,  
   c) To provide cooling and lubrication

5. Choose the CORRECT statement about Solid lubricants:  
   a) Graphite can provide lubrication up to 600 degree C  
   b) Graphite can provide lubrication up to 1000 degree C  
   c) Graphite can provide lubrication up to 1500 degree C  
   
   Acceptable Answers:  
   a) Graphite can provide lubrication up to 600 degree C

6. ________ is the amount of dissolved oxygen required for oxidizing organic matter:  
   a) BOD  
   b) COD  
   c) Dissolved Oxygen  
   d) None of the above
   
   Acceptable Answers:  
   a) BOD

7. What is the thermal conductivity of water?  
   a) 0.078 W/mK  
   b) 0.151 W/mK  
   c) 0.405 W/mK  
   d) 1.4 W/mK
   
   Acceptable Answers:  
   a) 0.078 W/mK

8. Cutting fluids are:  
   a) Concentrated  
   b) Mist With Oil  
   c) Simple With Water  
   d) Incompatible with oil
   
   Acceptable Answers:  
   a) Concentrated

9. For single point cutting tools, what type of cutting fluid is used to prevent cutting fluid during that application?  
   a) None  
   b) Full core  
   c) Milling core  
   d) Straight direction
   
   Acceptable Answers:  
   a) None

10. Which of the following are solid lubricants?  
   a) Molten Phosphorous (PO4)  
   b) Graphite  
   c) Inorganic silicon  
   d) Calcium stearate(CaSt)
   
   Acceptable Answers:  
   b) Graphite

All of the above.

---

Text Transcripts