Assignment 3

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

1) by increasing cutting speed, amount of heat generated  
   a) Increases  
   b) Decreases  
   c) Remains constant  
   d) None of the above.  
   No, the answer is incorrect.  
   Score: 0  
   Accepted Answer:  
   b) Decreases

2) Thermal conductivity of tools decreases at ?  
   a) Low temperature  
   b) Low cutting speed  
   c) High temperature  
   d) High cutting speed alone  
   No, the answer is incorrect.  
   Score: 0  
   Accepted Answer:  
   b) Low cutting speed

3) In metal cutting operation, the approximate ratio of heat distributed among chip, tool and  
   workpiece in that order is ?  
   a) 10:75:15  
   b) 20:60:20  
   c) 30:30:40  
   d) 80:10:5  
   No, the answer is incorrect.  
   Score: 0  
   Accepted Answer:  
   c) 30:30:40

4) Which is the lubrication mechanism?  
   a) Boundary lubrication  
   b) Mixed lubrication  
   c) Hydrodynamic lubrication  
   d) All of these  
   No, the answer is incorrect.  
   Score: 0  
   Accepted Answer:  
   d) All of these

5) Standard method for wear testing with Pin-on-Disc is ?  
   a) ASTM D444  
   b) ASTM G99  
   c) ASTM A91  
   d) No standard method  
   No, the answer is incorrect.  
   Score: 0  
   Accepted Answer:  
   a) ASTM D444

6) Surface roughness of workpiece is independent of tool radius of tool.  
   a) True  
   b) False  
   No, the answer is incorrect.  
   Score: 0  
   Accepted Answer:  
   b) False

7) Amount of heat generated in shear plane is ?  
   a) Directly proportional to shear angle  
   b) Inversely proportional to shear angle  
   c) Does not depend on shear angle  
   d) None of these  
   No, the answer is incorrect.  
   Score: 0  
   Accepted Answer:  
   a) Directly proportional to shear angle

8) Most important factor in machinability index is ?  
   a) Tool life  
   b) Surface Roughness  
   c) Build-up and 5b  
   d) None of these  
   No, the answer is incorrect.  
   Score: 0  
   Accepted Answer:  
   b) Surface Roughness

9) Temperature rise in primary deformation zone is generally close to ?  
   a) Rubbing action at tool face with work piece  
   b) Friction between tool and chip  
   c) Plastic deformation in shear zone  
   d) None of these  
   No, the answer is incorrect.  
   Score: 0  
   Accepted Answer:  
   a) Rubbing action at tool face with work piece

10) Thermal conductivity of cutting tool material ?  
    a) High  
    b) Low  
    c) Medium  
    d) Negligible  
    No, the answer is incorrect.  
    Score: 0  
    Accepted Answer:  
    a) High

Due on: 2019-03-20, 23:59:18