

DEPARTMENT OF MECHANICAL ENGINEERING

20ME002 - MANUFACTURING PROCESSES II

THEORY OF METAL CUTTING - QUIZ

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|------------------|---|
| Student Name: | Prasanna T |
| Register Number: | LE03 |
| Date: | 2025-07-30 |
| Time: | 09:54:17 |
| Duration: | 3:20 minutes |
| Questions: | 20 (Random selection from 75-question bank) |

SCORE: 5/20 (25.0%)

GRADE: F

DETAILED RESULTS

| Q.No | Your Answer | Correct Answer | Status |
|------|-----------------------------------|-----------------------------------|-----------|
| 1 | Difference between rake and cl... | Sum of rake and clearance angl... | ✗ Wrong |
| 2 | Cool the cutting zone | All of the above | ✗ Wrong |
| 3 | Chemical stability | All of the above | ✗ Wrong |
| 4 | At the tool tip | Ahead of the cutting edge | ✗ Wrong |
| 5 | Reference plane | Transverse plane | ✗ Wrong |
| 6 | Soft materials | Hardened steels | ✗ Wrong |
| 7 | Uniform thickness | Segmented appearance | ✗ Wrong |
| 8 | Power per unit volume removal ... | Energy per unit volume of mate... | ✗ Wrong |
| 9 | High-speed operations | High-speed operations | ✓ Correct |

| | | | |
|----|-----------------------------------|-----------------------------------|-----------|
| 10 | Cut chip thickness / Uncut chi... | Cut chip thickness / Uncut chi... | ✓ Correct |
| 11 | 0.2-0.5 | 0.1-0.2 | ✗ Wrong |
| 12 | Cutting speed is very low | Material is ductile with high ... | ✗ Wrong |
| 13 | Better wear resistance | All of the above | ✗ Wrong |
| 14 | Sulfur or lead additions | Sulfur or lead additions | ✓ Correct |
| 15 | Along the feed direction | Radially inward | ✗ Wrong |
| 16 | Tensile stress only | Both tensile and compressive s... | ✗ Wrong |
| 17 | Force / velocity | Force × velocity | ✗ Wrong |
| 18 | Ceramic-metal composites | Ceramic-metal composites | ✓ Correct |
| 19 | Cutting ratio | Cutting ratio | ✓ Correct |
| 20 | Increases cutting forces | Decreases cutting forces | ✗ Wrong |

This is an auto-generated report from random question selection.
Generated on: 2025-07-30 09:54:17