

- Q.27 Draw a labeled diagram of single point cutting tool.  
Define any two parts.
- Q.28 Enlist various types of lathe tools. Explain any one with diagram.
- Q.29 Draw a labeled diagram of twist drill. Define any two parts.
- Q.30 Define any four important angles of drill.
- Q.31 How the size and specification of a horizontal boring machine is determined.
- Q.32 Write any five differences between cutting fluid and lubricants.
- Q.33 Enlist the types of cutting fluids. Explain anyone.
- Q.34 Write any four advantages of Jigs.
- Q.35 Name the types of clamping devices. Explain anyone.

#### **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain the following cutting tool materials:  
a) HSS                    b) HCS
- Q.37 Explain any five drilling operations with suitable diagram.
- Q.38 Enlist lathe accessories. Explain any five of them.

No. of Printed Pages : 4                    MSIL-121744/031744  
Roll No. ....

**4th Sem / Mech. Engg ( MSIL)**  
**Subject:- Workshop Technology - II**

Time : 3Hrs.                    M.M. : 100

#### **SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Drill is a  
a) Multipoint cutting tool  
b) single point cutting tool  
c) Reciprocating tool  
d) none of these
- Q.2 The percentage of Tungsten in 18-4-1 high speed steel is  
a) 18%                    b) 4%  
c) 1%                    d) 0%
- Q.3 The tail stock is called  
a) Live Centre            b) dead centre  
c) tail centre            d) outer centre
- Q.4 The process of enlarging hole is  
a) drilling                    b) boring  
c) reaming                    d) facing

- Q.5 The most common material used for drills, taps and reamers is  
a) Low carbon steel      b) mild steel  
c) cast iron                d) high speed steel
- Q.6 Which of the following is semi-solid lubricant?  
a) Graphite                b) Zinc Oxide  
c) Grease                  d) Both a & b
- Q.7 With increase in temperature, the viscosity of a lubricant  
a) increases                b) decreases  
c) remain constant        d) All correct
- Q.8 Fixtures are used to  
a) fix the work piece      b) guide the tool  
c) vibrate the work piece d) Both a & b
- Q.9 The purpose of quick return mechanism is  
a) To reduce cutting speed  
b) Quick setting of job  
c) for good finish  
d) to reduce idle time in return stroke
- Q.10 The lathe bed is made up of  
a) Cast iron                b) HSS  
c) Mild Steel              d) Brass

## SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Define Cutting speed  
Q.12 Define End Relief Angle  
Q.13 Define Planer  
Q.14 Define Boring Process  
Q.15 Define Reaming process  
Q.16 Define Cutting Fluid  
Q.17 Define Broaching  
Q.18 Define Depth of cut  
Q.19 Define Tail stock  
Q.20 Define side rake angle

## SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Explain the working principle of slotter.  
Q.22 Enlist various operations that can be performed on drilling machine. Explain any one.  
Q.23 Write any four differences between single point and multipoint cutting tool.  
Q.24 Enlist various lathe accessories.  
Q.25 Explain quick return mechanism for shaper machine.  
Q.26 Explain the working principle of broaching process.