

Th-2

Model Question

Sub:- Manufacturing Technology

Sem - 4th

Branch - Mechanical

Model Question
Manufacturing Technology

IV-Sem / Mech /

Answer any five questions including Q.1 & 2.

Q1

- a) What is Honning?
- b) What is facing?
- c) Define Broaching?
- d) Define Tool life?
- e) What is the function of flute in drill bit.
- f) What are the different types of drilling machines
- g) Write the major components of Lathe machine
- h) Define Feed & depth of cut?
- i) What operations can be carried out by a milling machine?
- j) List of operations carried out in the centre Lathe.

Q2

- a) Write the working of Centres grinder.
- b) What is Super finishing? Write different types of Super finishing processes.

Q2 c) Write ~~the~~ the construction of pillar drilling m/c with neat sketch & explain its function.

d) Describe in brief the main parts of slotter.

e) State the characteristics of cutting tool materials. Also state the composition of 18:4:1 (HSS)

f) Differentiate between orthogonal cutting & oblique cutting?

g) Describe the properties of coolants & lubricants ^{used} in machining process.

Q3 With a neat sketch, describe the working principle & function of radial drilling machine.

Q4 Explain the function of Shaper and describe Quick return mechanism of Ram.

Q5

write short notes on

- a) Counter boring
- b) Counter sinking
- c) Burnishing
- d) Knurling
- e) Reaming

Q6

What is cutting tool terminology.
Sketch & label the cutting tool angles
and explain briefly.

Q7

What are the abrasives used in grinding
wheels? write different types of
grade & bond used in making of
grinding wheel.

Model Question - I
Manufacturing Technology
Code - MET-202.

- Q1
- Define tool life.
 - What is super finishing.
 - What are the different types of chips.
 - What do you mean by lathe.
 - What do you mean by counter boring.
 - What is the meaning of English alphabets 'A', 'K' & 'Z' in grades of grinding wheels.
 - What are the function of coolant during machining?
 - Define abrasive.
 - Write the composition of 18:4:1 (HSS).
 - Define Trepanning.

- Q2
- Mention how speed, feed & depth of cut affect the machining operation.
 - What are the different methods of taper turning.
 - Differentiate between milling & Planing. M/c.

- Q d) Write the difference between shaping and slotting.
- e) What do you mean by cutting fluid? Also explain different types of cutting fluid.
- f) Write short notes on 'slotting machine'.

Q3 Explain the Geometry of Single Point cutting tool. Show the principal angles.

Q4 What are the main parts of Lathe m/c. Briefly explain the parts (any four).

Q5 Describe table drive mechanism in Planer.

Q6 What is broaching? Explain different types of broaching.

Q7 Describe various operations performed by milling machine.