

## UNIT V DESIGN OF CAM & CLUTCHES

- 1 Mention a few applications of cams and state its advantages.
- 2 List the significance of pressure angle in cam design.
- 3 Define Jerk. Name the profile of the cam that gives no Jerk
- 4 Define pitch point in a cam.
- 5 Name four profiles normally used in cams.
- 6 Explain the term undercutting in CAM and how it can be prevented.
- 7 List the function of a clutch in a transmission system.
- 8 Name the factors upon which the torque capacity of a clutch depends.
- 9 Name a few commonly used friction materials.
- 10 Specify the desirable properties of friction materials to be used for clutches.
- 11 Give examples of axial and radial friction clutches.
- 12 If a multidisc clutch has 6 discs in the driving shaft and 7 disc in the driven shaft, then how many number of contact surfaces it will have.
- 13 Classify clutches based on coupling methods.
- 14 List the effects of temperature rise in clutches.
- 15 Why it is necessary to dissipate the heat generated during clutch operation?
- 16 Summarize positive clutch.
- 17 Differentiate between uniform pressure and uniform wear theories adopted in design of clutches.
- 18 Under what conditions of a clutch, uniform rate of wear assumptions is more valid.
- 19 Narrate the axial force required at the engagement and disengagement of cone clutch.
- 20 Distinguish between dry and wet operations of clutches