[4]

Q.6(e) Sate the applications of following bearings with suitable reasons:

(i) Deep grove ball bearing (ii) Taper roller bearing

(iii) Thrust coller bearingdds (iv) Needle roller bearing

(A) Application of bearings:

(i) Deep Groove Ball bearing:
Application: Electric Motor.

Reason: Capacity to take heavily axial load with high rotational speed.

(ii) Taper roller bearing

Application: axle housing of automobile.

Reason: ability to take high radial load as well as thrust load.

(iii) Thrust collar bearing:

Application: Clutch of automobile.

Reason: ability to combine radial & axial load with min. speed.

(iv) Needle roller bearing:

Application: Differential of automobile

Reason: takes less radial space. it has high radial load carrying a