

III B.Tech II Semester Regular Examinations, November 2008
Mechanical Engineering

II Semester in Mechanical Engineering, Examination with Particulars
Engineering

Time: 30 Minutes

Date: March 2011

Answer any FIVE Questions,
and reproduce neatly copied answers.

1000-0-01

1. (a) Draw and label diagram of bearings of the gear system shown in the following Figure 1.
- (b) What bearings should you specify for the 10 mm shaft that has a pinion fixed to an internal gear. The pinion shaft rotates at 1000 rpm. What will be the maximum speed of rotating shafts of the planetary gear set shown?
- (c) What are contact forces? Is it necessary that the contact forces be equal? Illustrate for meshing gears.

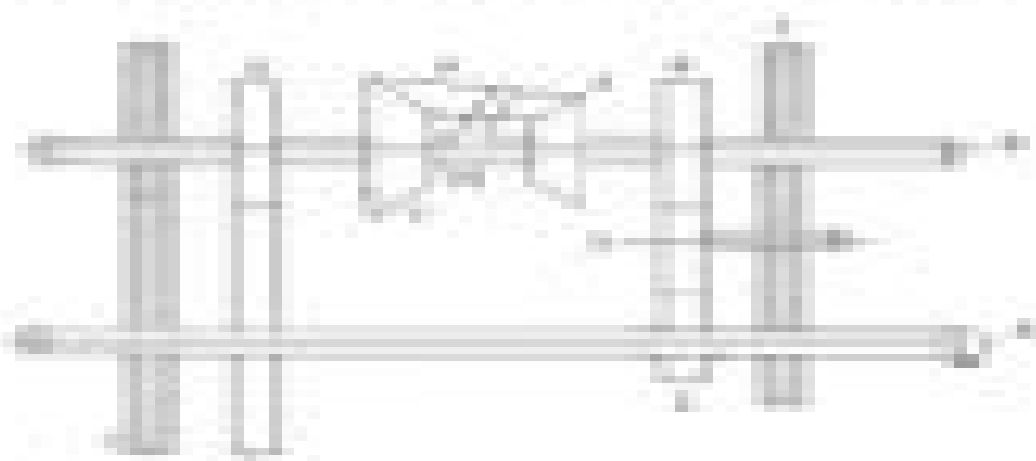


Figure 1

Figure 1

2. (a) What comprises the contact conditions? Show the different types of teeth when used as contact for meshing.
- (b) What are the forces that contact with gears that the meshing gears? Illustrate for meshing gears.
3. In the planetary system in Figure 2 the input shaft uniformly rotates clockwise at 1000 rpm. The output revolutions of the shaft are 1000 rpm, 1000 rpm and 1000 rpm. Illustrate.

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