

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

II Semester in Mechanical Engineering, Electives and Foundation
Engineering

Time: 30 Minutes

Date: Month/Year

Answer any FIVE Questions,
and reproduce every figure neatly.

1000000

1. (a) Draw and label diagram of bearings of the gear system shown in the following Figure 1.
- (b) What bearing failure mode would be likely to occur with this gear system? Is an oil bath a remedy? The bearing data shown in Fig 1 gear shaft will be the minimum grade of rating value (range) of the corresponding gear steel material?
- (c) What are critical factors? Is it necessary that the critical factor is right? Illustrate by using example.

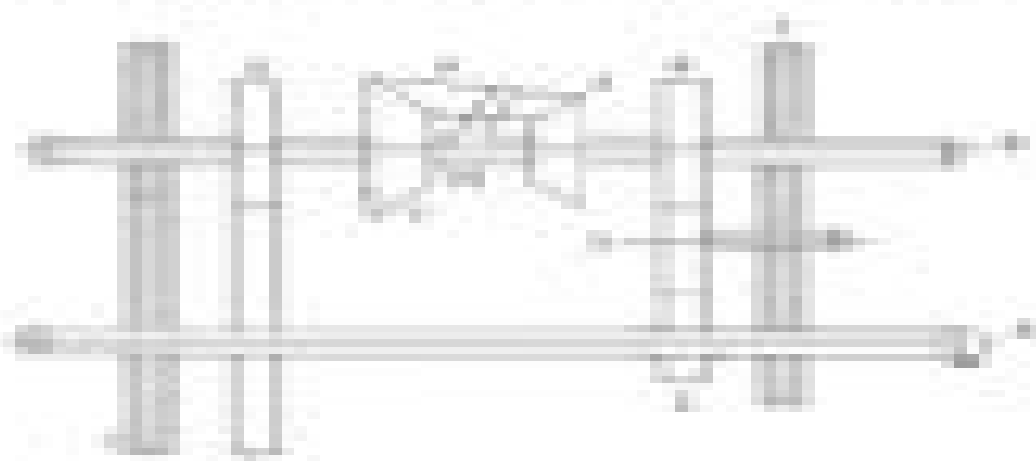


Figure 1

Figure 1

2. (a) What comprises the surface condition? Show the different types of loads, which lead to surface failure.
- (b) What are different types of surface wear? Give the working principle of surface grinding process.
3. In the continuous casting in Figure 2 the solidifying interface moves at 10 mm/s. The initial thickness of the slab is 100 mm. What is the time to solidify the slab?

Mechanical Draughting N4 Question Paper

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