

**B.TECH
(SEM VI) THEORY EXAMINATION 2022-2023
MACHINE DESIGN**

Time: 3 Hours

Total Marks: 100

- Note: 1. Attempt all Sections. If require any missing data; then choose suitably.
2. Design data hand book is allowed.
3. Assume suitable data if missing.

SECTION A

2 x 10 = 20

1. Attempt all questions in brief.
- Define Notch Sensitivity and its significance.
 - Define principal stress and principal plane.
 - Differentiate between chalking and fullering.
 - If the tearing efficiency of a riveted joint is 60%, find the ratio of diameter of rivet hole to the pitch of rivets.
 - Discuss the advantages and disadvantages of Helical gear.
 - Define pressure angle for the gear.
 - Define "static load rating" of rolling contact bearing.
 - A self-aligning ball bearing has a basic dynamic load rating $C = 35$ kN. If the equivalent radial load on the bearing is 45 kN, calculate the expected L10 life in millions of revolution.
 - Differentiate between dry liner and wet liner.
 - Discuss advantages of clutch over coupling.

SECTION B

10x3=30

2. Attempt any three of the following:
- Explain the design procedure in brief. A flat bar as shown in figure is subjected to an axial load of 50 kN. If the stress in the bar is to be limited 100 N/mm^2 . Determine the thickness of the bar considering stress concentration.



- A plate 75 mm wide and 12.5 mm thick is joined with another plate by a single transverse weld and a double parallel fillet weld as shown in Fig. The maximum tensile and shear stresses are 70 MPa and 56 MPa respectively. Find the length of each parallel fillet weld.

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Guillaume Favre



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