(8) Equation for Farmative number of teeth in belical gears:

A) TE = T/ cos 3x.

9. Shooted note on design of sparings.

of it is elastic machine component able to deflect under bood in a prescribed monner and to success its initial shope when unloads.

10. Different types of springs.

A 1. lead sporting.

2. tousion sporing.

3. coil spring.

4. gos spring.

5. Helical spring.

6. cone spring.

- 7. Discus design procedure for spur gears.
- A: 1. calculation of geast statio.
 - 2. Selection of material.
 - 3. calculation of initial design torique.
 - 4. calculation of feq.
 - 5. calculation of it centre distance.
- 8. Devine equation for formative number of teeth

$$=$$
 $TE = T[\cos 3\alpha]$

- 9. Should note on design of sportings.
- A! The design of helical coil springs involves.

 Selethon of a motorfal of a material, and
 determination of the wire diometer,

The oright spring will poraredie long-

Paper = 2 | Shoot fusing.

1. Define Bousic dynamic load stating in stalling confect bearings.

Al- The load which is bearing con theoretically endure for a basic rating life of one million suvolutions.

2 Some quicke lines for selecting persper types of bearings.

1. installation space

2. load

3. Robothonal speed.

4. Running accuracy.

5. Rigidity.

6. mis alignment.

methods and materials used in money bechuse of work shall.

mobilials! - Duchile ision, forged sheel,

methodis 1 = costing, torigina, billet machined.

4.

Paper = 3 | should ornury.

- 10. Any l'desimable propurties of a good bearings. materials.
- a peropuerties 1 1. compatibility.
 - 2. comparenine stouragth.
 - 3. fatique storenogth.
 - C. Thermal conductivity.
 - 5. cost.
- 2. It why are topper notice bearings used in paisus.
- A Breonie. that orial forces can be supported equally in either directions:
- 3. Repuerted.
- Repeated.
- 5. Repeated.
- 6. Repeated.
- 7. Repeated
- 8. Repealed
- 9. Repeated.

- 4. State the function of the sites for on 10 engine piston.
- A' function in Ribs storengthen the piston head against the gas pressure.
 - the distorotion of the piston head.
- 5. mes of construction of wine repus. How is wine scopes ends tastered.
- Elevatores. and serving as additional.

 reinforcement tour towers.
 - The wive supplied to the end of a wive.

 socket is applied to the end of a wive.

 stope coble and is then formed into place.

 using special dies.
- b. The relation for the seation of deriving. tensions. Of a v-belt.
- A) Ratio of tension = Ti = eul
 in v-belt. T2