

- (c) A 150 mm diameter valve against which a steam pressure of  $2 \text{ MN/m}^2$  is acting, is closed by means of square threaded screw 50 mm in external diameter with 6 mm pitch. If coefficient of friction is 0.12. Find the torque required to turn the handle.

6

7. (a) Explain the working of the cone clutch with a neat sketch.
- (b) A multi disc clutch has 3 discs on the driving shaft and two on the driven shaft. The outside diameter of contact surfaces is 240 mm. Inside diameter is half of the outside diameter : If coefficient of friction is 0.3. Find the maximum intensity of pressure between the discs for transmitting 25 kW power at 1575 r.p.m. Assume uniform wear conditions.

7

8

#### SECTION – IV

8. (a) Define :
- (i) Frequency of vibrations.
- (ii) Damped vibrations
- (b) Explain interference. What is the effect of interference ?
- (c) Two shafts with their centres approximately 780 mm apart, are to be connected by a pair of toothed gears so as to transmit a velocity ratio of 3. If module of gears is 12 mm, find the number of teeth in each wheel and also exact centre distance between them.

4

4

7

9. (a) Explain in brief, the transverse vibrations and torsional vibrations.
- (b) Four masses  $M_1$ ,  $M_2$ ,  $M_3$  and  $M_4$  are 2000 N, 3000 N, 2400 N and 2600 N. The corresponding radii of rotation are 200 mm, 150 mm, 250 mm and 300 mm respectively and the angles between successive masses are  $45^\circ$ ,  $75^\circ$  and  $135^\circ$ . Find the magnitude and position of balance mass required. If the radius of rotation is 200 mm in the same plane as that disturbing masses.

5

10

10. (a) Write the classification of cams.
- (b) Draw the profile of the cam which will give a lift of 40 mm to a roller follower. The diameter of the follower is 25 mm and line of stroke passes through the axis of the camshaft. The outward stroke of the follower takes place with S.H.M. during  $90^\circ$  of cam rotation followed by a period of rest during  $30^\circ$  of cam rotation. The follower then returns with equal acceleration and retardation during  $60^\circ$  of cam rotation followed by a period of rest during remaining angle of  $180^\circ$ . The minimum radius of cam is 50 mm.

3

12

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**Lei Shi**



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