www.rgpvonline.com

www.rgpvonline.com

http://www.a2zsubjects.com

www.rgpvonline.com

www.rgpvonline.com

[2]

Total No. of Questions :8]

[Total No. of Printed Pages :2

Roll No

MMMD/MMPD-302(A)

M.E./M.Tech., III Semester

Examination, December 2017

Fluid Film Lubrication

(Elective-II)

Time: Three Hours

Maximum Marks: 70

www.rgpvonline.com

www.rgpvonline.com

Note: i) Attempt any five questions.

ii) All questions carry equal marks

How bearings are classified?

Discuss hydrodynamie lubrication concept.

Discuss Full Summerfield conditions, Half Summerfield conditions and Reynolds conditions.

For journal bearing explain friction losses, attitude angle, eccentricity.

3. Explain static performance characteristics of hydrostatic journal bearings.

What are non circular bearings? Where they are used, write down behavior of non circular bearings.

Differentiate clearly between gas and oil bearings.

Explain collection method and least square method.

Enlist applications of rolling contact bearings.

How rolling contact bearings are classified?

7. Discuss followings:

Life prediction of rolling element bearings

Galerkin and Rayleigh-Ritz finite element method.

Write short notes on followings.

554

553

www.rgpvonline.com

PTO

MMMD/MMPD-302(A) www.rgpvonline.com

www.rgpvonline.com

www.rgpvonline.com

www.rgpvonline.com