

Roll No.



**PRESIDENCY  
UNIVERSITY**  
BENGALURU

**Department of Research & Development**  
**Mid - Term Examinations - SEPTEMBER 2024**

<b>Odd Semester:</b> Ph.D. Course Work	<b>Date:</b> 28 /09/2024
<b>Course Code:</b> MEC819	<b>Time:</b> 10:00am – 11:30am
<b>Course Name:</b> Tribology in Design	<b>Max Marks:</b> 50
<b>Department:</b> Mechanical Engineering	<b>Weightage:</b> 25%

**Instructions:**

(i) Read all questions carefully and answer accordingly.

(ii) Do not write anything on the question paper other than roll number.

**Part A**

<b>Answer ALL the Questions. Each question carries 5 marks.</b>		<b>4Qx5M=20M</b>
<b>1</b>	What are the desirable Properties of lubricants?	<b>5 Marks</b>
<b>2</b>	List types of lubricants and its specific field of application	<b>5 Marks</b>
<b>3</b>	What is Viscosity? Discuss effect of temperature and pressure on Viscosity	<b>5 Marks</b>
<b>4</b>	Write a note on friction of metals	<b>5 Marks</b>

**Part B**

<b>Answer ALL Questions. Each question carries 15 marks.</b>		<b>2QX15M=30M</b>
<b>5</b>	Mention the standard grades of lubricants. How do you select the type of lubricants for the specific use?.	<b>15 Marks</b>
<b>6</b>	What is Friction? Discuss the various friction theories	<b>15 Marks</b>