

Total No. of Questions : 4]

SEAT No. :

PA-10077

[Total No. of Pages : 1

[6009] 370

**T.E. (Mechanical) (Insem)
SURFACE ENGINEERING**

(2019 Pattern) (Semester - II) (Elective-II) (302052-B)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Neat diagrams must be drawn wherever necessary.*
- 2) *Figures to the right side indicate full marks.*

- Q1)** a) Describe the role of surface properties affecting wear and friction behavior. [7]
- b) Discuss how mechanical interlocking and diffusion contributes to adhesive wear? [8]

OR

- Q2)** a) Describe the mechanism of erosive wear? State the effects of various factors affecting erosive wear. [7]
- b) Write brief notes on Galvanic Series. [8]
- Q3)** a) Explain Salt spray method of corrosion testing. [8]
- b) Define Corrosion Inhibitor. Discuss two examples of corrosion inhibitors. [7]

OR

- Q4)** a) List special alloys. Describe use of any two special alloys to mitigate corrosion. [8]
- b) List and explain metallurgical aspects of corrosion. [7]

