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Register Number:

7232

Name of the Candidate:

**DIPLOMA EXAMINATION, 2010**  
**(MAINTENANCE ENGINEERING AND MANAGEMENT)**  
**(PAPER-III)**

**130. TERRO TECHNOLOGY**

Nov]

Maximum : 100 Marks

[Time : 3 Hours

*Answer any FIVE questions*

1. a) Discuss intergranular and fretting corrosion. (10)  
b) Explain stress corrosion and crevice corrosion. (10)
2. a) Discuss the various qualities of an anti-friction material. (10)  
b) Discuss in detail the molecular theory of friction. (10)
3. a) Explain electroplating process. (10)  
b) Explain the various factors influencing wear. (10)
4. a) Define viscosity. Explain the various factors affecting it. (10)  
b) Discuss how metal spraying and hard facing help in wear protection. (10)
5. a) Compare hydrodynamic and hydrostatic lubrication. (10)  
b) Discuss hydrostatic pad and hydrostatic life in detail. (10)
6. a) State the variables of hydrodynamic lubricants. (10)  
b) Explain how reclaim of lubricants is done. (10)
7. a) Explain the desirable properties of bearing materials. (10)  
b) Mention two surface treatment methods and explain their process. (10)
8. Write short notes on:  
a) Dry friction.  
b) Wear measurement  
c) Heat treatment

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