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Enrollment No.					

KADI SARVA VIDYALAYA UNIVERSITY

LDRP INSTITUTE OF TECHNOLOGY AND RESEARCH

B. E. Sem-III Mid Semester Examination

Subject Code: ME304

Subject Name: Material Science & Metallurgy

Date: 27-08-2014,

Time: 12:00 to1:30 P.m.

Branch: Mechanical & Automobile

Total Marks: 30

Instructions:

- 1. Make suitable assumption whenever necessary.
- 2. Figures to the right indicate full marks.

Q-1	Define utmost applicable mechanical property for any five components mentioned below: 1. Drill Bit 2. Forging Hammer 3. Train coach spring 4. Turbine Blade 5. Winding wire of Motor 6. Milling machine Bed 7. Fasteners 8. Machine Structure	05
Q-2	Describe Fatigue fracture.	05
Q-3	Describe any two method for Powder Compaction.	05
Q-4	Describe method used for finding the Phosphorous Percentage in Steel. OR Explain: Liquid Penetration Test.	05
Q-5	Discuss: Characteristics of Powders. OR Explain process of Nucleation in Solidification of metal.	05
Q-6	Discuss various steps of solidification of pure metal.	05

BEST OF LUCK