



Enrolment No. \_\_\_\_\_

**HASMUKH GOSWAMI COLLEGE OF ENGINEERING, VAHELAL**

**MID SEMESTER EXAMINATION, SEPTEMBER-2016**

**Subject Code: 2130903**

**Date: 28/09/2016**

**Subject Name: EMMI**

**Sem: 3<sup>RD</sup>**

**Time: 10:00 TO 10:50**

**Total Marks: 20**

**Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

**QUE.1**

- (A) Define (a) accuracy (b) precision (c) sensitivity 3
- (B) Define (a) resolution (b) Indicating Instruments (c) recording Instruments 3

**QUE.2**

- (A) Explain Kelvin Double Bridge method for measurement of resistance. 3
- (B) Explain the construction and working PMMC instrument. 4

**OR**

- (B) Explain Measurement of Power and Power Factor by Two Wattmeter Method. 4

**QUE.3**

- (A) Explain Electrodynamometer Instruments. 3
- (B) Explain Wheatstone Bridge method for measurement of resistance & state limitations of the Wheatstone bridge. 4

**OR**

- (A) State and explain types of errors in an instruments. 3
- (B) Explain Ammeter - Voltmeter method for measurement of resistance. 4

\*\*\*\*\* ALL THE BEST \*\*\*\*\*