

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

School of Engineering**B.TECH Electrical Engineering
Mid Term Examination - Nov 2023****Duration : 90 Minutes
Max Marks : 50****Sem V - G2UB501B - Electrical Machine II**General Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Outline the construction of 3-phase induction machine with neat diagram. K2 (2)
- 2) Define the skewing of induction motor. K1 (3)
- 3) Explain the No-load & Blocked rotor test on a 3-phase induction motor. K2 (4)
- 4) Illustrate the space harmonics in 3-phase induction motor. K2 (6)
- 5) Identify the Cogging and Crawling phenomenon in induction motor. K3 (6)
- 6) Identify the necessity of a starter to start a 3-phase induction motor. K3 (9)
- 7) Classify different types of starter for slip-ring induction motor. K4 (8)
- 8) Analyze the effect of Crawling & Cogging with neat diagram. K4 (12)

OR

Examine how you obtain parameters of equivalent circuit from no-load test and blocked rotor test on a single-phase induction motor. K4 (12)