Q.1

O.2

Q.3

Q.4

Enrolment Number:

Use single layer winding and star connection for stator.

(B) A 1250 kVA, 3 phase , 50 Hz, 300 rpm, synchronous generator with a concentric winding has the following design data: Specific magnetic loading = Bav = 0.58 Wbl m2-Specific electrical loading = ac = 33000 Aim Air gap length = 5.5 mm SCR= 1.2

Peripheral speed is 30 *mls*. Find stator core length, stator bore, turns per phase, armature mmf per pole and field mmf per pole at no load. Consider winding factor as 0.955.

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