

EEE363.1

Quiz # 1

Fall 2020

Answer all the questions

Q1. What are the functions of commutator and brush in a DC generator? [3]

Q2. What is the function of compensating winding in a DC machine? [2]

Q3. Define coil pitch. Can the back-pitch become smaller than the front-pitch? [1+2]

Q4. A 4 pole DC shunt generator with 400 wave connected armature conductors running at 975 rpm supplies a load of 10 ohm resistance at terminal voltage of 220 volt. The armature resistance is 0.25 ohm and the field resistance is 110 ohm. Find the armature current, induced emf and the flux per pole. [2+2+3]