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T630(E)N24)1

QUESTION 1

Choose the correct word(s) from those given in brackets. Write only the word(s) next to the question number (1.1 – 1.5) in the ANSWER BOOK.

- 1.1 Pole pitch is the (displacement, distance, metres) between the centres of the poles. (2)
- 1.2 When the ampere turns of the two windings oppose each other, the machine is said to be (cumulatively compounded, compound connected, differently compounded). (2)
- 1.3 The voltage drop in the load characteristics of a separately excited generator is due to (residual magnetism, armature reaction, hysteresis loss). (2)
- 1.4 (Wave wound, Lap wound, Armature winding) is for heavy-current machines. (2)
- 1.5 It has its field windings connected in series with the armature (series connected, compound connected, self-excited connected). (2)
- [10]

QUESTION 2

- 2.1 Define commutation in direct current machine. (3)
- 2.2 Explain by means of a neat sketch the meaning of compensating winding and show clearly in the same sketch the relative direction of the current through the compensating windings and the armature windings. (5)
- 2.3 State ONE use application for a separately excited generator. (1)
- [10]

QUESTION 3

- 3.1 Briefly state TWO variables that influences the size of the back EMF in an electrical motor. (2)
- 3.2 The total torque exerted on an 8 pole motor is 1,22 kiloNewton metres. The armature has 768 conductors and carries a current of 0,5 kiloamperes. Determine the following:
- 3.2.1 The flux per pole when it is connected in the lap wound (3)
- 3.2.2 The flux per pole when it is connected in the wave wound (3)
- 3.3 State TWO losses which torque has to overcome. (2)
- [10]

$$T \propto \Phi I_a$$

PTO

Past Year Papers Of N3 Instrumentation

Joacim Rocklöv



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