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<ul> <li>4. a) A 4 pole dc shunt motor has lap on the last approaches and the speed with which cannot connected to 230 V dc supply, it draws an armature flux per pole is 30 mWb. The number of sand the speed with which current of 40 A. Calculate the back e.m.f. and the speed with which current of 40 A. Calculate the back e.m.f. and the speed with which current of 40 A. Calculate the back e.m.f. and the speed with which current of 40 A. Calculate the back e.m.f. and the speed with which current of 40 A. Calculate the back e.m.f. and the speed with which current of a 50 kVA 1000/2000V. Sol G.</li> <li>b) Derive the emf equation of a 1-phase Transformer.</li> <li>c) Explain the principle of operation of three phase Synchronous characters.</li> <li>b) A single phase 25kVA 1000/2000V, 50Hz, single phase fransformer has maximum efficiency of 98% at full load upf, transformer has maximum efficiency of 98% at full load, pole transformer has maximum efficiency of 98% at full load, pole transformer is 40 and 10 and 10</li></ul>			Make up / Supplementary					
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0.8 pf. With a neat diagram explain the constructional features of core type single phase transformer. With the aid of neat diagram explain different rotor construction in a Synchronous generator.  6. a) Why DC series motors are suitable for electric traction and cranes? b) The no-load current of a 50 kVA 235/470V, 50H <sub>2</sub> transformer is 5A at 0.25 power factor. The number of turns on primary is 200. Calculate (i) maximum value of flux in the core (ii) number of turns in secondary winding iii) Full load secondary current. c) List the applications of Transformer, DC machine and Synchronous machine.  7. a) What is the necessity of starter in Induction motor? What are the different types of Induction motor? Explain. b) What is earthing? Explain its necessity; with a neat schematic diagram explain any one type of earthing in an electrical installation. c) The active power input to a 415V, 50Hz, 6 pole 3-phases Induction motor running at 970rpm is 41kW. The input power factor is 0.9. Calculate line current and slip.  8. L2 5 1  8. L2 5 1  9. L2 5 1  10. L2 4  11. Explain the Safety precautions and rules in handling electrical appliances. b) Explain the terms related to Induction machine. (i) Slip of Induction machine. (ii) Slip of Induction machine. (iii) Irrequency of rotor currents	5.	a)	A single phase 25kVA 1000/2000V, 50Hz, single phase					on ote:
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