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| Register | | | | | |
| Number | - | | | | |

III Semester Diploma Examination, Nov./Dec.-2018

DC MACHINES & ALTERNATORS

| Tin | ne : 3 Hours] | [Max. Marks : 100 |
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| Not | te: (i) Answer any six full questions from Part-A. Eac (ii) Answer any seven full questions from Part-B. E | · • |
| | PART – A | BETA CONSOLE! |
| 1. | Draw a neat sketch of a DC generator and label the parts. | 5 |
| | | Diploma - [All Branche |
| 2. | List the types of D.C. generators and draw circuit diagram | n for any 2 types. Education 5 |
| 3. | Explain Demagnetizing and Cross-magnetizing effects of generator. | f armature reaction of a D.C. 5 Diploma Question Papers [20] |
| 4. | A 4 pole DC generator has a lap wound armature having per slot runs at 1500 rpm. If the flux per pole is 0.04 while in the armature. What would be the emf induced, if the ways are the statement of the statement | s, calculate the emf induced |
| 5. | Explain the necessity of starters for D.C. Motors. | 5 |
| 6. | Explain the working principle of alternators. | 5 |
| 7. | Draw the Vector diagrams of alternator on load at | 5 |
| | (i) Zero lagging P.f | |
| • | (ii) Zero leading P.f | |
| | (iii) Unity P.f | |
| 8. | Explain hunting in alternator and mention any two method | ods to prevent it. 5 |
| 9. | List the applications of Servo Motors. | 5 |
| | 1 of 2 | (Turn over |