

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER – 3- EXAMINATION – SUMMER-2022

Subject Code:3330902

Date :27-06-2022

Subject Name: D C Machines And Transformer

Time:02:30 PM TO 05:00 PM

Total Marks:70

Instructions:

1. Attempt all questions.
2. Make Suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Use of programmable & Communication aids are strictly prohibited.
5. Use of non-programmable scientific calculator is permitted.
6. English version is authentic.

Q.1

Answer any seven out of ten. દસમાંથી કોઈપણ સાતના જવાબ આપો.

14

1. Write Low of Conservation of Energy & Give One Example.
૧. ઇલેક્ટ્રિક સંરક્ષણનો નિયમ જાણો અને એક ઉદાહરણ આપો.
2. Write the Function of Commutator in DC Generator.
૨. ડીસી જનરેટરમાં કોમ્યુટેટરનું કાર્ય જાણો.
3. Why Transformer Ratings is in kVA?
૩. ટ્રાન્સફોર્મરનું રેટિંગ KVAમાં શા માટે લેવા છે?
4. Explain Voltage Transformation Ratio.
૪. વોલ્ટેજ ટ્રાન્સફોર્મેશન રેશિયો સમજાવો.
5. Write the types of DC Generator
૫. ડીસી જનરેટરના પ્રકારો જાણો.
6. State any Four Application of Auto Transformer.
૬. ઓટો ટ્રાન્સફોર્મરના કોઈપણ ચાર ઉપયોગ જાણો.
7. Give any Four Advantages of Electrical Energy.
૭. ઇલેક્ટ્રિકલ એનર્જીના કોઈપણ ચાર ફાયદા જાણો.
8. Define Armature Reaction.
૮. આર્મેચર રીએક્શનની જાણ આપો.
9. Define Stack factor & Turn's Ratio in Transformer.
૯. ટ્રાન્સફોર્મરમાં "સ્ટેક ફેક્ટર" અને ટ્રાન્સફોર્મેશન રેશિયો જાણો.
10. State Four Application of DC Series Motor.
૧૦. ડીસી સીરીઝ મોટરના ચાર ઉપયોગો જાણો.

Q.2

અથવા ૨

- (a) Draw Neat Sketch of DC Generator & State its Various Parts.
(અ) ડીસી જનરેટરની સ્વચ્છ આકૃતિ દોરો અને તેના જુદા જુદા ભાગ સમજાવો.

03

03

OR

- (a) Describe Condition of Building up Voltage in Shunt Generator.
(અ) ડીસી શન્ટ જનરેટરમાં વોલ્ટેજ બીલડ અપ થવાની શરતો આપો.
- (b) Explain Magnetizing Characteristics of DC Generator.
(બ) ડીસી જનરેટરની મેગ્નેટાઈઝિંગ ગ્રાફિક્સ સમજાવો.

03

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OR

- (b) Describe Equilizing Ring of DC Generator.

03

3340901 Gtu Paper

H Kauffman



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