

GUJARAT TECHNOLOGICAL UNIVERSITY
Diploma Engineering – SEMESTER – 4 (OLD) – EXAMINATION – Summer-2023

Subject Code: 3340901**Date: 11-07-2023****Subject Name: Polyphase Transformers and Rotating A.C. Machines****Total Marks: 70****Time: 10:30 AM to 01:00 PM****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. ઉચ્ચમાટી કોઇપણ સહિત જવાબ નાપો.

14

1. What is the function of damper winding?
ડામ્પરવાયર-કોણ કેવી રીતે થાયા?
2. Define: Slip and Slip-Speed in Induction motor.
ઓ-સિન્ફોન મોટર માં સ્લિપ અને સ્લિપ સ્પીડ વ્યાખ્યાનિત કરો.
3. Why starter is required in an Induction motor?
ઓ-સિન્ફોન મોટર માં સ્ટાર્ટરની જરૂરિયાત શીં માટે થા?
4. List various methods of speed control of 3 phase induction motor.
શી કેવાં ઓ-સિન્ફોન મોટર ના સ્પીડ કટોલ માટેની જુદી જુદી રીતો ની જાણ બનાવો.
5. Write any four advantages of hydrogen cooling of alternator.
અલ્ટ્રાન્યુલેટરના હાઇડ્રોજન ક્રાંકના માર ફાયદાઓ વાપરો.
6. Draw power stage diagram of synchronous motor.
સિન્ફોન-સ મોટર માટે પાવર સ્ટેજ ડાયાગ્રામ દોરો.
7. Define (1) Short Pitch Coil (2) Full Pitch Coil.
ઓફિન્પાયા અન્યાની (1) સૉર્ટ પીચ કોલ (2) ફુલ પીચ કોલ.
8. Why synchronous motor is a constant speed motor?
સિન્ફોન-સ મોટર શીં માટે અથવા જરૂરિયાતી મોટર કલેવાય થા?
9. List the different types 1-Phase induction motors.
સિન્ફોન કેલક ઓ-સિન્ફોન મોટરના પસારો જણાવો.
10. Why single-phase induction motor is not self-starting?
સિન્ફોન કેલક ઓ-સિન્ફોન મોટર શીં માટે સેલ્ફ સ્ટાર્ટિંગ નથી?

Q.2**નશ. 2**

- (a) Explain type of losses occurred in 3 Φ Transformer. **0.3**
- (b) 3 Φ ટ્રાન્સફોરમરમાં ઉદ્દેશ્યતા વીસીસી ના પડારો અમલાંયો. **0.3**

OR

- (a) Compare between Squirrel cage and Slip ring Induction motor. **0.3**
- (b) સ્કવીલ કેલજ અને સ્લિપરિંગ ઓ-સિન્ફોન મોટર વચ્ચે સરબ્રાંમણી કરો. **0.3**
- (b) State the advantages for keeping armature system stationary in Alternator. **0.3**
- (b) અલ્ટ્રાન્યુલેટરમાં અમેરિક સિલેટ સ્થિર રાખવાના ફાયદાઓ જણાવો. **0.3**

OR

- (b) Draw connection and vector diagram of Dd6 & Yd11. **0.3**

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Lauren Gardner

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