

SCHOOL OF ENGINEERING AND TECHNOLOGY

D.C. COURT JUNCTION, DIMAPUR

FINAL TERM EXAMINATIONS, NOV-DEC 2022

Course Code:	G1T04	Semester:	I	Total marks:	60
Course Name:	Basic electrical engineering			Time:	3 Hrs.

PART-A

Choose the correct answer $1 \times 10 = 10$.

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- Among the option which one is Active elements.
 a) Resistance b) Capacitor c) Inductor
 d) Generator
- Incoming current $i_1 = 30 \sin(400t - 60^\circ)$ and outgoing current $i_2 = 30 \sin(400t + 60^\circ)$ find i_3 which is also incoming.
 a) $30 \sin 400t$; b) $30 \sin 400t$ c) $30 \sin 100t$
 d) none
- When the efficiency of transformer is maximum:
 a) $P_1 = P_2$ b) $P_2 = P_3$ c) $P_2 = P_1$ d) $P_2 = P_3$
- During short circuit which is zero attribute option
 a) Voltage b) current c) resistance d) impedance
- When switch is close, its behave like
 a) Open circuit b) close circuit c) short circuit
 d) None
- Direction of force in DC motor can be found out by using
 a) Maxwell equation b) Fleming right hand rule
 c) Kirchhoff's law d) Fleming right hand rule
- Direction of current in DC generator can be found out by using
 a) Lenz's law b) Fleming right hand rule
 c) Fleming left hand rule d) Maxwell equation
- What is the necessity of starter
 a) To limit current b) To limit voltage c) To limit power d) none
- The length of short transmission line is
 a) 80 km b) (81-240) km c) (241-600) km
 d) 650km
- There are how many types of torque
 a) 1 b) 2 c) 3 d) 4

2/2/21

Write any five

5/4/20

1. Explain the construction and working of a motor.
2. Explain the types of DC motor and generator.
3. Explain the types of transformer.
4. Explain the working of transformer and its types.
5. Explain the working of transformer and its types.
6. Explain the types of transformer and its types.

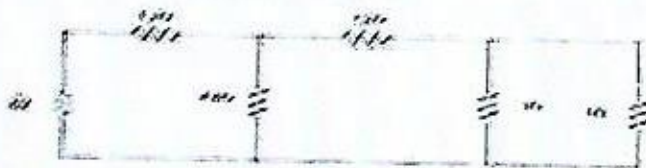
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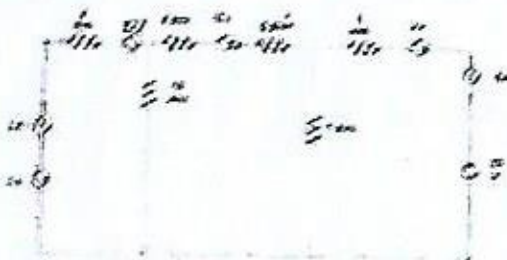
Write any four questions.

7/2/20

1. Explain the construction and working of a motor.
2. Explain the types of DC motor and generator.



3. By using Star-Delta analysis, find the voltage at each node and current through each branch.



4. Explain types of distribution systems?
5. Explain working of transformer?