

## Past Paper (2015)

1 What is hydrometer?

Ans A hydrometer is an instrument used to measure the specific gravity (or relative density) of liquids.

2 What is the function of (NVR<sup>REP</sup>C) No Voltage Release coil? (2016)

Ans No volt coil ensures that whenever supply resumes after switching off or supply failure, the motor does not start automatically to lowest armature resistance but starts through current limiting resistors.

3 Feeler gauge is used for what purposes?

Ans A feeler gauge is a hand-held tool used for measuring gap widths between two objects that are close together.

4 Why motor speed in V or star connections is less?

Ans The speed of star connected motors are slow as they receive  $1/\sqrt{3}$  voltage

5. Describe a controller. What is its function?

Ans The device which make the regularity in action of equipment connected with it called controller.

1 To run and stop the motor.

2 To control the speed of motor

3 To safe the motor up to possible limit.

4 To change the direction of motor.

6 Why Poly Phase motors are popular?

Ans (1) They are simple and reliable in structure.

2 They need less repair.

- 2 They are easy to repair and have less faults
- 4 Their Protection, testing and installation are simple and cheaper.
- 7 State four mechanical faults of motors.

- 1 ~~Bearing failure~~ Bearing fault
- 2 ~~Overheating~~ Rotor damage
- 3 ~~Insulation Breakdown~~ shaft bending
- 4 Air gap eccentricity

8 A 3-phase motor heat up. Describe the reasons.

- 1 low Voltage
- 2 Over load voltage.

9 During operations smoke comes out from universal motor. State two cause and remedies.

#### Cause

#### Remedies

- |                                     |                                         |
|-------------------------------------|-----------------------------------------|
| 1 short circuit in armature winding | 1 search the fault and change the coil. |
| 2 short circuit in field winding    | 2 search the fault and change the coil. |
| 3 Bearing failure                   | 3 change the Bearing                    |
- 10 Describe commutator and its function.

Ans The Part of armature where armature winding coils connection are made is called commutator. and its function is convert AC current into DC current.

11 What are the faults of field Poles?

- 1 short circuit in coils
- 2 open circuit in coil.

13 Describe the type of DC generator w.r.t field excitation?

1. Self excited DC generator.
2. Separately excited DC generator.

14. What is meant by critical resistance?

Ans The maximum field circuit resistance with which the shunt generator would just excite is called critical resistance of shunt generator.

15 Why transformer core is made laminated?

Ans The laminated iron core prevents the formation of eddy currents across the core and thus reduces the loss of energy.

OR

A laminated core of a transformer helps to minimize the energy losses due to eddy current.

16 How silica gel is reconditioned?

Silica Gel can be reconditioned by heating it at  $300^{\circ}\text{F}$  for 6 to 8 hours.

17 Temperature of alternator goes to be high. Describe the cause.

- 1 Over load.
- 2 cooling system are not correct.

18

## Part Paper (2016)

Q1 What is phase tester also write its uses?

Ans A device, often built into a screwdriver used to check for electric current.

A Phase tester is electrical equipment that can be used to detect the presence of electricity.

2. What is meant by testing equipments write names of any four?

Ans Testing equipments is used to test electrical insulation, short circuits, cable capacity, using cable testers. is called testing equipment

1 Test lamp.

2 Multimeter

3 Megger

4 current clamps.

3 Rep in (2015) Q no 2)

4 Single phase motor does not start, write two faults, causes and remedies.

Ans 1 Overload or low starting torque.

2 A starter winding may be short circuited or earthed

Causes

Remedies.

1 Overload or low starting torque.

Rotate the rotor by hand and if it is free to move, then reduce the load.

2 starter winding may be - - - - //

Check the winding with a series test lamp or megger and correct it.

Q5 What do you know about universal motor also write its uses?

Ans Such a motor which ~~can~~ run on A.C supply and D.C supply is called universal motor. this motor is series motor. it consist on one armature and one series field winding, this winding has less turns.  
Uses: Vacuum cleaners, Juicer machine, Drill machine.

Q6 Rep in (2015) Q no (10)

Q7 Rep in (2015) Q no (11)

Q8 Alternator does not produce voltage, write two causes and remedies?

| Causes                               | Remedies                                   |
|--------------------------------------|--------------------------------------------|
| 1. Connections may be wrong or lose. | 1. Check the connections and correct them. |
| 2. Exciter is not Produce Voltage    | 2. maintenance of Exciter                  |

Q9 If the frequency of transformer increases what will happen

Ans If the frequency of transformer increases then ~~Iron losses are increased~~, the secondary voltage or emf increases.

Q10 What do you meant by transformer oil testing?

Ans

11 Write different size of ceiling fans available in market.

Ans (1) 36" (915mm)

(2) 46" (1200mm)

12 What is immersion heater also write two Precautions while using it.

Ans An electric heating element that is positioned in the liquid to be heated, typically in a domestic hot water tank.

(1) The heater must be surrounded by water to the desired level before it is switched on.

(2) In working condition do not touch the water.

13 Which motor is used in juicer blender and kitchen grinder?

Ans Universal motor is used in juicer blender and kitchen grinder.

14 What is gravity of a battery and how it is checked?

Ans Specific gravity is used to check the state of charge of a battery, essentially it's the ratio of the weight of a solution to the weight of an equal volume of water. Testing the specific gravity of a cell is done using a hydrometer, the best of these automatically compensate for temperature.

15 Write different parts of a washing machine?

1 electric motor

2 spin basket

3 Pump

4 Timer

5 Dryer

16 How thermostat works in an automatic electric iron.

Ans It is the "thermostat" inside the iron that silently tracks the temperature and can turn the power on and off with the help of other electric components.

17 What is difference b/w D.C generator and D.C motor w.r.t construction?

Ans There are NO constructional difference of D.C motor and D.C generator. ~~The~~ D.C motor convert's electrical energy into mechanical energy whereas D.C generator converts mechanical energy into an electrical energy.

18 Write the function of star-delta starter.

Ans They are used in an attempt to reduce the start current applied to the motor during start as a means reducing the disturbances and interference on the electrical supply.

Q17 Answer.

Ans Except for the direction of flow of electrical power, there is no difference between DC generator and DC motor in terms of structure.

# Part Paper. (2017) ~~Part 1st time~~

1 What is meant by maintenance.

Ans Take various steps to keep electrical Power systems, power Plants, electrical machines and equipment operational is called maintenance

2 Describe standard wire gauge?

Ans The standard wire gauge used to determine the size of electrical wire is called standard wire gauge.

3 Why starter is not needed for small motors?

Ans The small capacity motors (below 5Hp) doesn't have very high starting current. And without using any starter, Such motors can withstand the starting currents.

4 Describe thermal overload relay.

Ans Thermal overload relay are economic electromechanical protection device for the main circuit. They offer reliable protection for motors in the event of overload or Phase failure.

5 What do you mean by routine test.

Ans A routine test is a test to which each device is subjected after or during manufacture.

6 Rep in (2015) Q no 6

7 Why universal motor is preferred?

Ans It is preferred because it has a high starting torque, so it can be operated

load and it can be operated at very high speed.

2 Rep in (2016) Q no 4.

9 What are inter poles and what is their function?

Ans Inter poles near the main poles and their function to reduce the armature reaction and Improve the commutation process.

10 How the polarities of shunt field and series field in a d.c machine is checked.

Ans The polarity of the shunt field can be easily checked by the magnetic needle. To check the Polarity of the series field, the known polarity current in it is passed. Polarity is determined with the help of a magnetic needle.

11 Write different methods to control armature reaction.

Ans Using interpoles

2 Using compensating winding.

3 By changing the position of the brushes.

12 What is meant by buildup process in d.c shunt generator?

13 Rep in 2016 Q no 8

14 How the field coils of an alternator is excited?

Ans The alternator does not have commutator but has two slip rings attached to the shaft. The field coils of the alternator must be supplied with D.C from an external source. If there is no ~~external~~ exciter, the field coils can be excited with the help of battery.

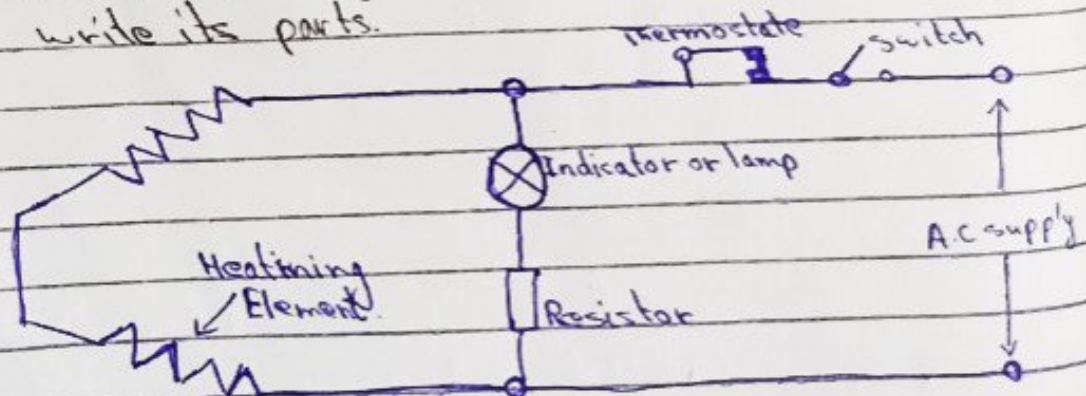
15 What is transformer also write its working principle

Ans A transformer is a stationary electrical device that ~~transfers~~ transfers electrical power from the primary circuit to the secondary circuit without changing frequency and it works on mutual Induction.

16 What is meant by dehydration.

Ans If for some reason some amount of water is added to the oil, hot steam is passed through the oil to get it out. This process is called dehydration.

17 make circuit diagram of automatic electric iron also write its parts.



The refrigerator works on the Principle that when a liquid is converted into vapor, it absorbs heat.

11

18 Write principle of refrigeration?

Ans The absorption of the amount of heat necessary for the change of state from a liquid to a vapor by evaporation, and the release of that amount of heat necessary for the change of state from a vapor back to the liquid by condensation are the main Principles of the refrigeration Process, cycle

Past Paper (2017) Evening.

Q1 What do you mean by repair?

Ans. Rep in (2017) ~~1st time~~ morning Q no 1

Q2 Rep in (2015) Q no 1

Q3 Why stator is used with motor?

Ans Since the armature winding resistance of large DC motors is low, they are always started <sup>safely</sup> with a starter. Starter reduces the starting current.

Q4 Why speed of motor increases in delta connection?

Ans Because each phase of motor gets voltage equal to line voltage. For example if line voltage is 400 volts then every Phase of motor winding also gets 400 volts. High voltage also increases the speed of the motor.

Q5 Write five faults found in electric motors.

- 1 Open circuit in stator winding.
- 2 Partial short circuit in stator winding.
- 3 Rotor bar breakage
- 4 Single Phasing
- 5 Reversed Phasing.

Q6 Write any one method to trace short circuit in three phase motors.

Ans If the resistance is checked with the use of megger every two phases then in case of reading zero there will be complete short circuit while in case of low resistance there will be partial short circuit. The higher the mutual resistance, the better. However the resistance should not be less than one mega ohm.

Q7 Single phase motor is becoming hot, write two faults, causes and remedies.

| Causes                                        | remedies.                               |
|-----------------------------------------------|-----------------------------------------|
| 1 Improper ventilation to keep the motor cool | Adequate air supply should be arranged  |
| 2 Rotor stator out of place                   | Set the stator core in its proper place |

Q2 Rep in 2016 Q no 5

Q9 Rep in 2016 Q no 17

Q10 Rep in 2015 Q no 10

Q11 What do you know about armature reaction.

Ans. The distortion of main magnetic field by the field of armature is called armature reaction.

Q12 Write about the force of residual magnetism.

Ans Residual magnetism is defined as the amount of magnetization left behind after removing the external magnetic field from the circuit.

13 What is brushless alternator?

Ans Such a generator in which carbon brushes do not use is called brushless alternator.

14 Enlist the type of alternators.

1 Silent Pole type.

2 Smooth cylindrical type.

15 Enlist the parts of a standard three phase transformer.

Ans Steel tank, Therma meter, cooling fan, laminated core, Iron core, windings, Pressure relife pipe, Buckles relay, Oil gauge, radiator, tap changer switch, Oil pipe, Insulation mineral oil.

16 What do you know about tap-changer.

Ans A tap-changer is a device used to change the ratio of transformer. voltage

17 Rep in (2016) Q no 16.

18 Enlist the parts of a ceiling fan.

Ans Stator, Ball bearing, Terminal box and core, Rod, capacitor, Net bold, ~~Rubber~~ fan blade, Regulator, screws.

## Past Paper (2018) Morning

1 Why motor does not start?

Ans The stator can have open circuit.

2 line fuse may be blown

3 Open circuit in armature

4 Deadness of one or two fuse.

5 Supply breakdown.

Q2 Rep in 2015 Q no 10

Q3 Enlist 3 common faults of 3-phase synchronous motor.

1 Heat of the motor

2 Do not rotate the rotor in the center of the stator

3 Open circuit or short circuit in motor coils

4 Bending of the rotor shaft

5 loose or broken foundation unit.

6 Breaking of cooling fan blades

7 Break of the brush holder

Q4 Rep in 2017 Q no 13 evening.

Q5 Enlist the Part of automatic star delta starter.

Ans 3 magnetic contactor

2 1 Thermaloverload relay

3 1 Timer

4 1 ON/Off switch

5 3 Indicator.

Q6 Which D.C motor has high starting torque?

Ans D.C series motor has high starting torque.

Q7 Write down the names of tests of locate fault in armature.

Ans 1 short circuit test

2 open circuit test

8 What is the major repair?

Ans Shutting down and overhauling a machine after a certain period of time is called major repair.

9 How the leakage test is performed in three phase motor.

Ans To Perform leakage test, one end of the wire of the series test lamp is attached to the metal frame of the motor while the other end of the wire is attached to the winding terminal takes in turns. If the lamp is ON then there is presence of leakage fault.

10 Explain the method to check the specific gravity of a battery.

Ans 1 After preparing the electrolyte, let it cool for some time.

2 Check the electrolyte density from the hydrometer scale.

3 Dip the hydrometer into the electrolyte and fill it with the help of a bulb.

11 Write the names of 5 tools used in a electrical maintenance shop.

Ans 1 Screw driver

2 Plier

3 Tester

4 screw ~~range~~ wrench

5 hammer

6 Chisel

12 Rep in 2016 Q no 14

13 What is scheduled maintenance?

Ans The Process of repairing all the defects

found during inspection is called Scheduled maintenance:

Q14 Rep in 2017 Q no 3 Evening

15 Rep in 2017 Q no 16 Evening

Q16 Why the armature is made laminated.

A-16 The armature made laminated to reduce eddy current losses.

Q17 Why does not start the d.c series motor without load?

Ans The speed of D.c series motor depends on the load current. The load current (overflux) and the speed are inversely proportional to each other. When the motor is at no load then due to load current the speed of the motor becomes very high which causes it to burn. Therefore, the D.c series base motor does not run without load.

18 Rep in 2015 Q no 16



## Past Paper (2018) Evening.

~~Q1 What is maintenance?~~

Q1 Rep in 2017 Q no 1 morning.

Q2 What is the function of timer in Automatic toaster.

Ans The function of the timer in automatic toaster is to disconnect the toaster from the supply at the set temperature so that the toaster does not overheat.

3 What is tap changer in a transformer and write its type.

Ans. A tap changer is a device used to change the ratio of transformer voltage.

- 1 Off load tap changer
- 2 ON load tap changer
- 3 In terms of load
- 4 In terms of action
- 5 Manual tap changer
- 6 Automatic tap changer

4 state function of growler. Write its use.

Ans. A growler is an electricity device used for testing insulation of a motor for shorted coils. A growler consists of a coil of wire wrapped around an iron core and connected to a source of alternating current.

5 Rep in (2018) Q no 3

6 Rep in 2015 Q no 16

7 Rep in 2018 Q no 9 Morning.

8 Rep in 2017 Q no 1 morning and Its types?

Ans. Minor Repairs:- Replacement of fuse, tightening of bolts etc.

2 Major Repairs:- Breakage of bearings, Burnout of windings, defect in motor slab etc.

9 Differentiate 3 point and 4 point D.C motor starter.

Ans. The most significant difference b/w the 3 point and the 4 point starter is that in 3 point starter the no voltage coil (NVC) is connected in series with the field winding whereas in 4 point starter the (NVC) is directly connected to the supply voltage.

10 Rep in 2015 Qno 2

11 State use of clamp on meter.

Ans A clamp meter is a clothespin-shaped instrument that can be clamped around a live wire in order to measure the current it's carrying.

12 Enlist any 5 electrical instruments used in an electrical maintenance shop.

1 Plier

2 fuse tester

3 knife

4 screw driver

5 hammer

13 Rep in 2015 Qno 1

14 Single phase motor does not run on its rated speed. Describe its fault remedy causes.

Causes

Remedy.

Ans 1 The capacitor becomes weak or damaged.

1) Replace the capacitor

2 To much load on motor

2) Reduce the load or increase the safety equipment rating

3) Open circuit in running or starting.

Search the open circuit and repair them.

15 Rep in 2016 Q no 5

16 Rep in 2017 Q no 14 morning

17 Enlist types of D.C generator

Ans 1 D.C shunt generator

2 D.C series generator

- 3 D.C compound generator  
 (a) short shunt D.C generator  
 (b) long shunt D.C generator  
 18 Over load relay of a starter trip on low speed of a motor, write down its causes and remedies.

| Causes                                   | Remedies                                                                    |
|------------------------------------------|-----------------------------------------------------------------------------|
| 1 Dust or rust in relay contacts.        | Clean the contacts and moving parts of the relay with carbon tetrachloride. |
| 2 The parts of the relay have penetrated | Replace the relay and adjust it.                                            |

## Past Paper (2019) Morning

- Q1 Rep in (2018) Evening Q no 4  
 2 Rep in (2018) Evening Q no 18  
 3 Rep in (2015) Q no 10  
 4 Rep in (2018) Evening Q no 3  
 5 Describe the method to prepare the electrolyte of a battery.

Ans The electrolyte of a battery is made from a mixture of pure sulfuric acid ( $H_2SO_4$ ) and distilled water. All the water needed for the battery is poured into a glass jar. Then drop the acid through in glass tube and pour it into the water. Five part water and one sulfuric acid are mixed together to make electrolyte.

- 6 State use of a clamp on meter.

Ans Clamp on meter is used to measure load current.

- 8 Rep in 2015 Q no 1  
 9 Rep in 2015 Q no 6  
 10 Rep in 2015 Q no 8  
 11 What is meant by critical resistance.  
 Ans Residual magnetism of poles of shunt generator and that value of shunt field resistance at which the action of e.m.f generation starts is called critical resistance in D.C shunt generator.  
 12 Rep in (2013) Q no 15  
 13 Rep in (2017) Q no 3 evening.  
 14 Rep in (2017) Q no 19 evening  
 15 Rep in (2017) Q no 18 morning.  
 16 Which motor is used in juicer blender or kitchen grinder.  
 Ans Universal motor.  
 17 Rep in (2016) Q no 8  
 18 Rep in (2017) Q no 16 morning.

## PAST PAPER 2020

- Q1 State minor repair with an example.  
 Ans All the repair that are done without shutting down the power plant and without affecting production are called minor repair. For example. Trip of circuit breaker, loose or broken belt of machine etc.  
 Q2 What is meant by routine maintenance.  
 Ans In order to keep a machine or plant in good condition daily, weekly, monthly or yearly ~~specific~~ inspection and maintenance schedule is prepared it is

called routine maintenance.

Q3 What is meant by measuring instruments, state some of any four.

Ans. Instruments that are used to measure different quantities are called measuring instruments.  
Example (1) ammeter (2) volt meter (3) watt meter (4) frequency meter etc.

Q4 The magnetic contactor does not energise, state two causes and remedies of it.

- 1 The voltage received by the coil is less
- 2 The coil is open or less turns
- 3 Rating of coil is not correct.

Q5 state any four magnetic faults found in 3-phase motor.

- 1 A shaft can bend or break
- 2 Stator winding burn
- 3 Bearing fault
- 4 Mutual short circuit of laminated core

6 Rep in (2018) Q no 14 evening

7 Rep in (2012) Q no 17 morning

8 What are the effects of magnetic field of armature on flux of main poles.

- 1 The flux of main pole is weak
- 2 The losses is increase in armature
- 3 flux is perversion of main pole.

9 What is the relation b/w speed and generated e.m.f of an alternator.

Ans. Increasing the speed also increases the emf generated in the alternator.

10 What are the methods used for reconditioning of transformer oil.

Ans 1 The method of filter press

2 Using activated alumina and flores earth.

11 Rep in 2015 Q no 16

12 Rep in 2016 Q no 16

13 Rep in 2016 Q no 15

14 The temperature of food compartment of refrigerator is very high, describe two causes and remedies of it.

#### Causes

1 The thermostat is not working properly

2 The door gas kit is damage.

#### Remedies

1) change the thermostat.

2) Replace or repair the gas kit.

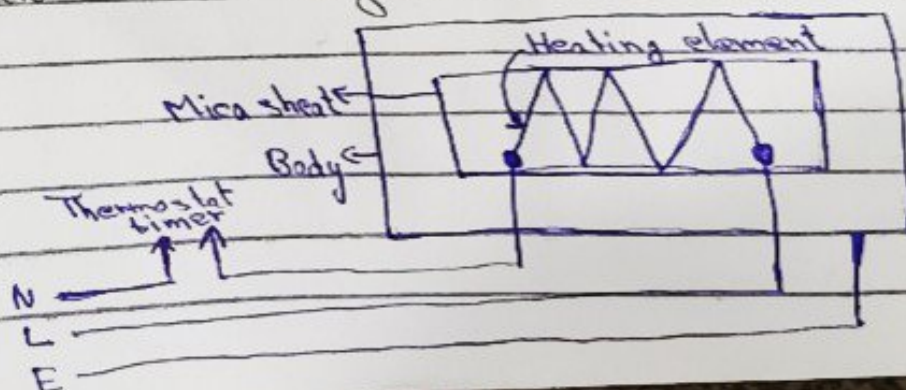
15 state the names of different methods of battery charging.

Ans 1 Fast charging method

2 Permanent current method.

3 Permanent Potential or voltage method

16 Draw circuit diagram of automatic toaster



17 Write four precautions while making electrolyte for batteries.

- 1 Wear splash proof goggles, rubber gloves, while ~~not~~ working with the battery.
- 2 Never pour water into the concentrated acid.
- 3 Acid should be mixed in the water drop by drop very slowly so that it should not fall on the skin or clothes.
- 4 The room should be well ventilated to avoid suffocation.

## PAST PAPER 2021 (morning)

1 Rep in (2018) morning Qno 13

2 What is overhauling.

Ans Overhauling means to open the machines and clean their parts thoroughly, to remove the defects in them, and to replace the damaged parts etc. it is called overhauling.

3 Write the function of star-delta starter.

Ans A star delta starter is a type of reduced voltage starter. We use it to reduce the starting current of the motor without using any external device or apparatus.

4 Define main contact of starters, write its functions.

Ans The contacts in starter are means the contacts that are connected to the main supply motor and the full load current of the motor passes through them.

Q. Why speed

3 Three Phase motor produce scratching sound. state

its cause and remedies.

| cause                                            | Remedies                     |
|--------------------------------------------------|------------------------------|
| 1. <del>loose</del> the belt of motor is loosing | 1) tight the belt or replace |
| 2. Overload                                      | 2) Reduce the load.          |

6. Define three phase motor and write the types of three phase motor with rotor construction.

The Such a motor which works on three phase supply is called three phase motor.

1. squirrel cage Induction motor
2. wound Rotor motor
3. Synchronous motor.

7. speed of single phase motor is less. write two faults, causes and remedies.

| Causes                         | Remedies.                             |
|--------------------------------|---------------------------------------|
| Ans 1. Over load               | 1) Reduce the load.                   |
| 2. frequency or voltage is low | 2) Increase the voltage or frequency. |

8. Single phase motor is becoming hot, write two faults, causes and remedies.

| Causes                     | Remedies.                           |
|----------------------------|-------------------------------------|
| Ans 1. Motor may be loaded | 1) Check and reduce load            |
| 2. Ventilation may be poor | 2) Maintain the Proper ventilation. |

Q9 Define armature winding faults, short circuit and earth fault.

Ans Short circuit fault:- If the few seats of the windings of the armature are joined by the loss of insulation, it is called a short circuit.

Earth fault:- If an electric shock is felt by touching a machine, it is called earth fault. This is because the insulation of the winding is weak or loss.

Q10 How the polarities of shunt field and series field in a D.C. machine is checked.

Ans The polarity of shunt field <sup>and series field</sup> can be easily checked with magnetic needle.

Q11 speed of D.C. shunt motor is run badly, write two faults, causes and remedies.

| Causes             | Remedies.                   |
|--------------------|-----------------------------|
| 1) field are weak  | 1) cut the field resistance |
| 2) voltage is high | 2) decrease the voltage     |

Q12 Why motor does not start?

Ans Motor does not start that's many reasons. For example:- overload, ~~In stator~~ ~~The~~ open circuit in stator winding.

Q13 Write three causes of failure of the build up process in D.C. shunt generators.

Ans 1 loss of residual magnetism.

2 Reversal of current direction in field coil.

3. Reversal of commutation when brushes disbalance their position.

Q Define transformer oil moisture test and write its method.

Ans. The tests that are done to check the presence of moisture in the transformer oil are called oil moisture test. There are two methods.

1) Copper sulphate method.

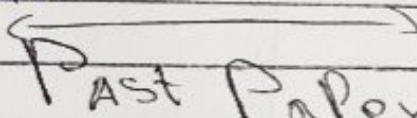
2) The method with a piece of red hot iron

Q Write parts of ceiling fan and write the function of capacitor in ceiling fan.

1. stator (2) Rotor (3) capacitor (4) Rod (5) Regulator

(6) Terminal box (7) Bearings (8) nut bolt etc.

The function of capacitor is start the fan.



Past Paper (2021) Evening.

Q Enlist the Parts of alternators.

1 Stator

2 Rotor

3 Rectifier

4 Body

5 Slip ring

6 Bearing

7 Shaft

Q What is the function of magnetic contactor in direct online magnetic starter.

Ans The magnetic contactor is an electrically operated switch used in DOL starter to start and stop the motor. If it the motor main current is passes.

Q D.C series motor runs backward state the remedies.

Ans If the D.C series motor is moving in the opposite direction then change the connection of one of the field or armature then the motor will start running straight.

Q why the armature is made laminated.

Ans The armature is made laminated to reduce Eddy current losses.

Q Voltage of a D.C generator are too low. write down its two faults, causes and remedies.

| causes                                                                                   | Remedies                                                                         |
|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Ans 1) Due to the low speed of the Prime mover, the generator is running at a low speed. | 1) The solution is to increase the speed of the prime mover.                     |
| 2) The field is weak due to a high resistance.                                           | 2) If its resistance is reduced then the voltage of the generator will be fixed. |

Q Which type of faults may occur in the bushing and insulator of a transformer.

- 1) The ~~insulator~~ <sup>bushing</sup> of transformer would be completely broken.
- 2) Damaged sealing of the bushing.

3. Dust on top of the transformer bushing.  
 Q What is the importance of inter pole in dc generator.

Ans. Inter pole near the main pole. It reduce the armature reaction and Improve the commutation process.

Q Temperature of alternator is too high. Write down its two causes and remedies.

| Causes                        | Remedies                                |
|-------------------------------|-----------------------------------------|
| 1) load is too high           | 1) Reduce the load                      |
| 2) Cooling system is not work | 2) Check and repair the cooling system. |

Q. What are precautions, while using microwave oven.

- Ans 1 Do not put metal-decorated or metal dishes in the ~~over~~ microwave.
- 2 Do not use the oven if the door is not close properly.
- 3 Never switch on the oven if it is empty.