

- Q.28 Write in brief the functioning of Moving Coil Type galvanometer.
- Q.29 How does a transistorized Voltage Regulator work?
- Q.30 Differentiate between Single Phase and three Phase AC motor.
- Q.31 How is paralleling of generators done?
- Q.32 What the different types of batteries?
- Q.33 What are the cooling devices for transformers?
- Q.34 What is the procedure for maintenance of installed batteries?
- Q.35 What do you mean by filter? Give an example.

#### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain the working of a DC generator and AC motor.
- Q.37 Write notes on
- Transformer ratio
  - P-Static Cause
  - Shielding
- Q.38 Describe the various types of measuring instruments with their salient features.

No. of Printed Pages : 4  
Roll No. ....

187755/147755

#### 5th Sem / Branch : AME Subject:- Aircraft Electrical Systems

Time : 3Hrs.

M.M. : 100

#### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 How an ammeter is connected in the circuit?
- In series
  - In parallel
  - Either in series or parallel
  - None of the above
- Q.2 A capacitive transducer works on the principle of \_\_\_\_
- inductance
  - capacitance
  - resistance
  - reluctance
- Q.3 In the cables, the location of fault is usually found out by comparing
- The resistance of the conductor
  - The inductance of the conductors
  - The capacitances of insulated conductors
  - All above parameters
- Q.4 Which among the following is very fast fuse?
- Kitkat
  - Semiconductor
  - Copper brushes
  - Field magnet

- Q.5 Thermistors have \_\_\_\_\_
- positive temperature coefficient
  - negative temperature coefficient
  - zero temperature coefficient
  - infinite temperature coefficient
- Q.6 Slip rings are used in \_\_\_\_\_
- Battery
  - AC Generator
  - DC Generator
  - None of the above
- Q.7 How many types of DC Motors are there?
- Two
  - One
  - Four
  - Three
- Q.8 What is not true for Galvanometer?
- It can be converted to ammeter
  - Very high current can pass through it
  - Low current can only pass through it
  - It can be converted to voltmeter
- Q.9 AC bridge is an outcome of \_\_\_\_\_
- Kelvin bridge
  - Megger
  - De Sauty bridge
  - Wheatstone bridge
- Q.10 In the support system of the bridges and trolley wheel \_\_\_\_\_ form the main loading carrying element in the structure.
- Cable
  - Beams
  - Pillars
  - Cement mortar

## SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 What is an instrument?
- Q.12 What is clamping?
- Q.13 What is a reverse current breaker?
- Q.14 Where the static discharge wick installed?
- Q.15 What is the basic difference between AC and DC current?
- Q.16 What is an O/T circuit?
- Q.17 What is the purpose of a rectifier?
- Q.18 When is routine of wire bundles needed?
- Q.19 What are null discharge?
- Q.20 What actually fuel content indicator measures?

## SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Describe moving iron dynamometer?
- Q.22 What are various connector types?
- Q.23 Explain the Starter system in Aircraft.
- Q.24 What is a CHT circuit? Where are they used?
- Q.25 Explain any one type of relay.
- Q.26 Write in brief about Aircraft Wiring system.
- Q.27 How does a slip ring work?