

MODULE 04B1 APRIL 2019 QUESTION PAPER

1) Capacitor used in synchro -

- a) **Reduce current & Increase accuracy**
- b) Reduce current and reduce accuracy
- c) Increase current and reduce accuracy
- d) Increase current and increase accuracy

2) TTL Operating Voltage

- a) **5VDC**
- b) 6VDC
- c) 4vDC

3) In transistor,

- a) **Emitter Current = Base Current + Collector Current**
- b) Base Current = Emitter Current + Collector Current
- c) Collector Current = Base Current + Emitter Current

4) Servo capacitor depends on

- a) Resistor
- b) Power
- c) capacitance

5) Emitter is heavily doped so it can transfer charge to

- a) **Base**
- b) Collectors
- c) Base & collectors

6) In torque synchro stator is

- a) **Star connection with winding 120 degree apart**
- b) Star connection with winding 90 degree apart
- c) Delta connection with winding 90 degree apart
- d) Delta connection with winding 120 degree apart

7) For conduction, Commonly used material is

a) Semiconductor **b) Copper foil** c) Al

8) Diode with negative resistance region?

a) **Tunnel Diode** b) Varactor diode c) Zener diode

9) LED is made of

a) **Gallium and Arsenic** b) Germanium & silicon
c) Silicon

10) Size of IC

a) **Extremely small** b) Large c) Extra large

11) Advantage of an IC is its

a) ICs are less reliable, low cost and high power consumption
b) ICs are more reliable, low cost and low power consumption
c) ICs are more reliable, high cost and low power consumption

12) PCB cleaning & is done by

a) Aquadus and HCl
b) Organic material
c) Both

13) Direction of arrow in transistor

a) always from P to N
b) always from N to P
c) Any direction

14) In SCR-

a) Load is connected in parallel with anode
b) Load is connected in parallel with cathode
c) Load is connected in series with anode

15) MICS

- a) **Static electricity can be eliminated completely**
- b) Static electricity can be controlled
- c) Signage is placed around ESDS area

16) Open loop servomechanism

- a) Part of output connected to input
- b) **Output is not connected to input**
- c) Depends on requirement

17) Linear component

- a) **Input current and output voltage**
- b) Input voltage and output voltage
- c) Input current and output current

18) Rectifier diodes are

- a) **Used to handle high current and enclosed in metal for heat sink.**
- b) No specific current
- c) LED emits light

19) In Transistors,

- a) **Base is thinner than emitter and collector is larger than base and emitter**
- b) Base, emitter and collector are same in size
- c) Emitter is larger than collector and base.

20) In IC circuit static charge is prevented by

- a) Material is grounded
- b) Person is grounded
- c) **Both**