

- Q.23 Write a note on special tools of testing.
- Q.24 Explain the procedure for testing of timer.
- Q.25 How curve tracer is used in trouble shooting of digital circuits? Explain.
- Q.26 Define the role of service report cards.
- Q.27 Explain in brief about the corrective maintenance.
- Q.28 Describe the split half method of trouble shooting.
- Q.29 How service manuals are helpful in fault finding?
- Q.30 How jigs and fixture are used in testing?
- Q.31 Explain the procedure for testing of voltage regulator.
- Q.32 Describe about trouble shooting of signal generator.
- Q.33 How log books are prepared?
- Q.34 Write short note on data book.
- Q.35 Discuss any four faults of stereo Amplifier.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain digital IC troubleshooting using IC tester.
 - Q.37 Describe any two trouble shooting techniques in details.
 - Q.38 What is the importance of maintenance? Explain different types of maintenance.

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Roll No.

6th Sem / Branch : Electronics & Instrumentation
Sub. : Troubleshooting of Electronic Equipments /
Troubleshooting & Ser. of Electronic Equip.

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 What is the unit of resistance?
 - a) Farad
 - b) Ohm
 - c) Henry
 - d) Mho
- Q.2 A resistor with color coding BLUE, RED, BROWN, GOLD is having a resistance _____
 - a) $620 \pm 2\%$ ohms
 - b) $620 \pm 5\%$ ohms
 - c) $260 \pm 5\%$ ohms
 - d) None of the above
- Q.3 The device which is used for voltage regulation in a power supply is
 - a) Rectifier diode
 - b) Zener diode
 - c) Transistor
 - d) Tunnel diode
- Q.4 Basic building blocks of digital multimeter are
 - a) Oscillator, amplifier
 - b) Diode, op amp
 - c) rectifier, schmitt trigger
 - d) A/D converter, attenuator, counter

- Q.5 A device consists of two PN junction and three terminal is called _____.
 a) Rectifier
 b) Triode
 c) Filter
 d) Transistor
- Q.6 The full form of PCB is _____.
 a) Pasted circuit board
 b) Printed control board
 c) Printed circuit board
 d) None of the above
- Q.7 The full form of MTTR is _____.
 a) Maximum time to repair
 b) Mean time to repair
 c) Minimum time to repair
 d) None of these
- Q.8 The routine actions taken up to keep the equipment in good running condition and reducing the chance of failure is called _____.
 a) Corrective maintenance
 b) Preventive maintenance
 c) Proactive maintenance
 d) None of these
- Q.9 The full form of CRO is _____.
 a) Cathode ray output
 b) Cathode ray output
 c) Cathode ray oscilloscope
 d) None of these

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- Q.10 _____ is the scheme, strategy or action plan of regular maintenance which should be followed to keep the equipment in good condition.
 a) Corrective maintenance
 b) Preventive maintenance
 c) Maintenance policy
 d) None of the above

SECTION-B

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

- Q.11 Define the term MTBF.
 Q.12 What do you mean by preventive maintenance.
 Q.13 Draw the symbol of MOSFET and BJT.
 Q.14 Name any four special tools.
 Q.15 What is Logic pulser.
 Q.16 What is the function of service manual.
 Q.17 What is jig.
 Q.18 Define troubleshooting.
 Q.19 Write two advantages of Digital multimeter.
 Q.20 What is the function of IC tester.

SECTION-C

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

- Q.21 What is testing? Explain environmental testing.
 Q.22 Describe method of vibration testing.

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