

- Q.28 Explain the troubleshooting procedure of PA system.
 - Q.29 Explain the procedure for testing voltage regulator.
 - Q.30 Write a short note on Endurance testing.
 - Q.31 Explain the function of jigs and fixtures for operational testing of modules.
 - Q.32 Write a short note on importance of data book.
 - Q.33 How circuit tracing helps us in finding faults?
 - Q.34 Distinguish between analog and digital multimeter.
 - Q.35 Explain the reliability curve briefly.

Section-D

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

- Q.36 Distinguish between preventive and corrective maintenance.

Q.37 What is troubleshooting? Explain various troubleshooting techniques in detail.

Q.38 Write a short note on any two of the following:

 - a) Service manual b) Grounding
 - c) Digital IC tester

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123663C/73663C

Eltx. Engg. / EI
Subject : Troubleshooting of Electronic Equipment/
Troubleshooting & Ser. Of Electronic Equip.

Time : 3 Hrs. **M.M. : 100**

SECTION-A

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

- Q.1 What is the unit of capacitor?

 - a) Farad
 - b) Ohm
 - c) Henry
 - d) mho

Q.2 A resistor with color coding GREEN, BLACK, BLACK, RED is having a resistance _____.

 - a) $500 \pm 2\%$ ohms
 - b) $500 \pm 5\%$ ohms
 - c) $50 \pm 2\%$ ohms
 - d) None of the above

Q.3 Which of the following is a type of transistor?

 - a) NPN
 - b) PNP
 - c) Both A & B
 - d) None of the above

Q.4 A digital multimeter can measure which of the following quantities?

 - a) Resistance
 - b) Current
 - c) Potential difference
 - d) All of the above

Q.5 What is the output of IC 7805?

 - a) +5V
 - b) -5V
 - c) +15V
 - d) -15V

- Q.6** What is the full form of PCB.
- Pasted circuit board
 - Printed control board
 - Printed circuit board
 - None of the above
- Q.7** The full form of MTTR is _____
- Maximum time of repair
 - Mean time to repair
 - Mean time to response
 - Maximum time to response
- Q.8** The _____ Maintenance focuses on resolving issue that arise when program is in operation.
- Preventive
 - Corrective
 - Perfective
 - Adaptive
- Q.9** The full form of SMPS is _____
- Switch mode power source
 - Switch main power source
 - Source mode power supply
 - Switch mode power supply
- Q.10** _____ is the process of verifying that a product meets its specifications and quality standards, including performance, reliability, safety, durability and appearance
- Component Testing
 - Component verification
 - Component designing
 - None of the above

Section-B

- Note:** Objective type Questions. All Questions are compulsory. (10x1=10)
- Q.11** What is the need of testing.
- Q.12** Name any two special tools.
- Q.13** What is the full form of CRO?
- Q.14** Name any two troubleshooting techniques.
- Q.15** Draw the symbol of variable resistor.
- Q.16** What do you mean by maintenance?
- Q.17** Which IC number is used for operational amplifier?
- Q.18** Define the term divergent.
- Q.19** What is the full form of MTBF?
- Q.20** What is the use of log book?

Section-C

- Note:** Short answer type Questions. Attempt any twelve Questions out of fifteen Questions. (12x5=60)
- Q.21** Describe the colour coding of a resistor.
- Q.22** What do you understand by the term Mean time to repair?
- Q.23** What are the different measurement techniques?
- Q.24** What is the usage of logic probe?
- Q.25** What is shielding? How it is different from grounding?
- Q.26** What is the significance of history sheet?
- Q.27** Discuss the need of service report card.