

Monthly Test

Q. ID: ITISKILL9172VI

March 2026

Govt ITI Yadahalli

Question Paper

Duration: 20 Mins

Total Marks: 10

ID: ITISKILL9172VI

Student Name: _____

Roll No: _____

1. Why LC tuned circuits are not used in audio frequency oscillators?

- A) LC values required is too large
- B) LC tank circuit does not produce AF signals
- C) LC tank circuit operation requires high voltage
- D) LC components are not available

2. What is the difference of Colpitts oscillator compare to Hartley oscillator?

- A) Uses crystal oscillator
- B) Uses split capacitor
- C) Uses split inductor
- D) Uses SCR combination

3. How many time constant period is required to fully charge a capacitor?

- A) 10 time constants
- B) 5 time constants
- C) 7 time constants
- D) 3 time constants

4. Which circuits commonly use parallel-fed Hartley oscillators?

- A) Stereo amplifiers
- B) Radio receivers
- C) Television receivers
- D) Automatic voltage stabilizers

5. How much is the maximum load current of the negative voltage regulator IC 7912?

- A) 1.0 A
- B) 2.0 A
- C) 1.5 A
- D) 0.55 A

6. Which is the transistor used to operate the Colpitts oscillator?

- A) BF 194B
- B) BC 148B
- C) AC 127
- D) AC 188

7. Which is the 3 terminal, negative voltage regulator IC?

- A) LM 340
- B) LM 320
- C) IC 7812
- D) IC 7905

8. How many transistors are built inside the Very Large Scale Integration (VLSI) IC package?

- A) 10 to 100 transistors
- B) 1000 and above
- C) 100 to 1000 transistors
- D) 1 to 10 transistors

9. How to improve the frequency stability in oscillator circuits?

- A) Improve the property of circuits
- B) By using quartz crystal
- C) Increase the supply voltage
- D) Using L and C

10. Which circuit is determined by the frequency of LC tank circuit?

- A) Demodulator
- B) Oscillator
- C) Multiplexed
- D) Amplifier