Monthly Test

Q. ID: ITISKILL9172VI

March 2026

Govt ITI Yadahalli

Answer Key

Duration: 20 Mins **Total Marks: 10** **Q.ID: ITISKILL9172VI**

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

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

Answer: B) Uses split capacitor

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

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

Answer: B) IC 7905

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

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

Answer: B) BF 194B

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

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

Answer: B) Oscillator

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

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

Answer: B) By using quartz crystal

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

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

Answer: A) 1000 and above

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

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

Answer: B) Radio receivers

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

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

Answer: C) 5 time constants

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

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

Answer: D) LC values required is too large

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

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

Answer: D) 2.0 A