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Score: 7/25 (28.00%)

Code: 9940

- What is the unit of electric charge?
A) Volts (Incorrect) B) Hertz
C) Ampere **D) Coulomb**
- Which material contains eight electrons in valency layer?
A) Insulators (Correct) B) Conductors
C) Semiconductors D) Intrinsic semiconductors
- Which material is used as electrical insulator?
A) Gallium **B) Porcelain (Correct)**
C) Aluminium D) Germanium
- How the single strand wire is called?
A) Flexible wire (Incorrect) B) Twisted wire
C) Hook up wire D) Multi strand wire
- Which energy is converted by the battery to produce electricity?
A) Electrical energy into light energy **B) Chemical energy into electrical energy (Correct)**
C) Mechanical energy into electrical energy D) Electrical energy into mechanical energy
- What is the percentage of sulphuric acid in electrolyte used for lead-acid batteries?
A) 12% B) 25%
C) 27% D) 40% (Incorrect)
- Which method is adopted to charge a car battery with voltage rating of 2.3 V per cell?
A) Float charging method B) Trickle charging method
C) Constant current charging method **D) Constant voltage charging method (Correct)**
- Why the load testing is done on the lead-acid battery?
A) Test the dimensional accuracy B) Verify the rated power delivery
C) Measure the rated output voltage D) Test I2R power loss in the battery cell (Incorrect)
- Which is the 3 terminal, negative voltage regulator IC?
A) LM 320 B) LM 340 (Incorrect)
C) IC 7905 D) IC 7812
- What is the expansion of PRF related to frequency?
A) Power regulated frequency (Incorrect) **B) Pulse repetition frequency**
C) Pulse repetition frequency D) Pulse probability frequency
- What is the name of the ratio of ON-time pulse to the OFF-time pulse of multivibrator?
A) Control voltage (Incorrect) **B) Pulse repetition**
C) Pulse repetition D) Threshold comparator
- What is the natural shape of a quartz crystal?
A) Cylindrical shape with pyramid at ends B) Cube shape with pyramid at ends
C) Pentagonal prism with pyramid at ends (Incorrect) **D) Hexagonal prism with pyramid at ends**
- What is the resonant frequency range of a crystal?
A) Between 0.1 and 1MHz B) Between 0.1 and 10 MHz
C) Between 0.5 and 25 MHz **D) Between 0.5 and 30 Mhz (Correct)**
- What is the difference of Colpitts oscillator compare to Hartley oscillator?
A) Uses split inductor **B) Uses split capacitor**
C) Uses crystal oscillator (Incorrect) D) Uses SCR combination
- Which circuit is determined by the frequency of LC tank circuit?
A) Oscillator B) Amplifier
C) Multiplexed D) Demodulator (Incorrect)
- What is the percentage of charge accumulated by the capacitor at the end of 2 time constant limit?
A) 0.4 B) 0.5 (Incorrect)
C) 0.632 **D) 0.864**
- How many time constants required to change a capacitor to 63.2% of its full charge voltage?
A) Four time constant B) Three time constant
C) Two time constant (Incorrect) **D) One time constant**
- Which circuits commonly use parallel-fed Hartley

oscillators?

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

19. What type of arrangement is required to sustain the oscillations of the oscillator circuit?

- A) Provide negative feedback (Incorrect)
- B) Provide regenerative feedback**
- C) Increase the bias voltage
- D) Increase the value of inductor

20. What type of feed back is used by the Wein-bridge oscillator to oscillate the signal?

- A) No feedback
- B) Positive feedback
- C) Negative feedback (Incorrect)
- D) Both positive and negative feedback**

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

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

22. How to overcome the problem of frequency drift in LC oscillators?

- A) Apply opposite polarity of signal
- B) Provide negative feedback
- C) Using high Q coils and good quality capacitors (Correct)**
- D) Increase the supply voltage

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

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

24. Which component filter the ripples in the rectifier circuit?

- A) DIAC
- B) Diode (Incorrect)
- C) TRIAC
- D) Capacitor**

25. Which parameter is maintained constant in zener diode?

- A) Power (Incorrect)
- B) Current
- C) Voltage**
- D) Resistance