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TNEB ECE Model Question Paper 2

1. What is disadvantage of linear integrated circuits?
   a)Parameter within the IC cannot be modified
   b)Low power requirement
   c)Ics are considered to use minimum number of external connections
   d)None of the mentioned
2. The phenomenon employed in the waveguide operation is
   a)Reflection
   b)Refraction
   c)Total internal reflection
   d)None
3. In uniform quantization process
   a)The step size remain the same
   b)Step size varies according to the values of the input signal
   c)The quantizer has linear characteristics
   d)Both a and c are correct
4. The modulation techniques used to convert analog signal in to digital signal are
   a)Pulse code modulation
   b)Delta modulation
   c)Adaptive delta modulation
   d)All of the above
5. In adaptive Delta Modulation, the slope error reduces and
   a)quantization error decreases
   b)Quantization error increases
   c)Quantization error remains same
   d)None of the above
6. The number of voice channels that can be accommodated for transmission in T1 carrier system is
   a)24 b)32
   c)56 d)64
7. Instantaneous power in inductor is proportional to the
   a)Product of the instantaneous current and rate of change of current
   b)Square of instantaneous current
   c)square of the rate of change of current
   d)Temperature of the indicator
8. The waveguides increase the transmission of the electromagnetic waves. State true or false
   a)True b)False
9. The main objectives of electrical power transmission is/are
   a)Transmission system must be more efficient with minimum line losses
   b)Voltage regulation of the transmission line must be zero or minimum
   c)Both 1 and 2
   d)Neither 1 nor 2
10. Magnetic flux has the unit of
    a)Newton b)Ampere turn
    c)Weber d)Tesla