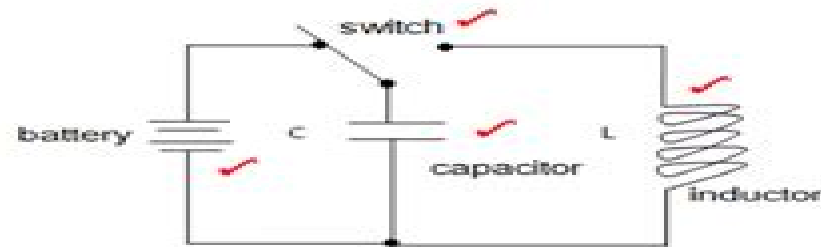


QUESTION 15: COMMUNICATION SYSTEMS

15.1



(4)

15.2 The role of an oscillator is to generate a sinusoidal wave✓ at constant amplitude and constant frequency.✓

(2)

15.3 It is the frequency at which systems will oscillate✓ in the absence of damping ✓ or driving forces ✓
The natural frequency of a system is the frequency at which the system "likes" to oscillate at.

(3)

15.4 Positive feedback is used in oscillators✓ to start the oscillation and to keep them running or oscillating. ✓

(2)

15.5 Modulation is the process by which a carrier wave✓ is altered in such a way that it is able to carry✓ information on it✓

(3)

15.6 Amplitude modulation✓
Frequency modulation✓
Pulse modulation ✓

(3)

15.7 15.7.1 Tuned circuits are used to discriminate✓ between the different frequencies✓ and only pass the desired frequency to the next stage✓. The circuit will resonate at the desired frequency and reject all other frequencies.

(3)

15.7.2 RF amplifiers amplify the frequency selected by the tuned✓ circuit to a usable magnitude. ✓

(2)

15.7.3 The intelligence is removed from the carrier wave ✓ and the RF carrier is filtered to ground. ✓ Thus only the desired audio signal remains✓. Diode detection, using capacitors and resistors, is commonly used in detection circuits.
It detects the presence or absence of the radio signal to produce clicks in the receiver's earphones representing the Morse code symbols

(3)

15.7.4 The AF amplifier is used to amplify audio intelligence✓ to a value sufficient to drive the loud speaker✓.

(2)

[26]

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