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1) **HEMT used in the microwave circuit is a**

- A) Source
- B) High Power Amplifier
- C) Low Noise Amplifier
- D) Detector

View Answer

Option – c)

2) **Klystron operates on the principle of**

- a) Amplitude Modulation
- b) Frequency Modulation
- c) Pulse Modulation
- d) Velocity Modulation

View Answer

Option – d)

3) **A cavity resonator can be represented by**

- a) an LC circuit
- b) an LCR circuit
- c) a lossy inductor
- d) a lossy capacitor

View Answer

Option – a)

4) **Ionospheric preparation is not possible for microwaves because**

- a) Microwaves will be fully absorbed by the ionospheric layers
- b) There will be an abrupt scattering in all directions
- c) Microwave will penetrate through the ionospheric layers
- d) There will be dispersion of microwave energy

View Answer

Option – c)

5) **If the peak power of pulsed microwave system is 10^4 W and the average power is 800 W, the the duty cycle will be**

- a) 80%
- b) 8%

c) 0.8%

d) 0.08%

View Answer

Option – b)

6) **The noise produced in a microwave tube due to random nature of emission and electron flow is called**

a) Partition noise

b) Shot noise

c) Johnson noise

d) Shannon noise

View Answer

Option – b)

7) **Which of the following is not possible in a circular wave guide ?**

a) TE_{10}

b) TE_{01}

c) TE_{11}

d) TE_{12}

View Answer

Option – a)

8) **The pulse frequency is equal to**

Duty cycle/pulse width

The reciprocal of the pulse repetition rate

Pulse width x peak power/average power

All of these

View Answer

Option – a)

9) **The maximum theoretical output circuit efficiency of a double resonator klystron amplifier is**

a) 25%

b) 50%

c) 58%

d) 85%

View Answer

Option – c)

10) **Which of the following can be used for amplification of microwave energy?**

a) Travelling wave tube

b) Magnetron

c) Reflex Klystron

d) Gunn diode

View Answer

Option – a)