

No Preview
Available

Total No. of Question : [4]

Registration No. :

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Programme Name : Bachelor of Electronics and Telecommunication Engineering
Regular B.Tech.Final Year (A.Y.2023-24) ESE Sem. VII Nov.2023
VII SEMESTER (2020 BATCH)
201ETL407-Micro-Wave Theory(TH)

Duration : [02:00 PM - 04:00 PM]

Date : 02 Dec, 2023

Day : Saturday

Marks : 50

Instructions :

(Q1) All Questions are compulsory [20.0]

CO :- CO1

Blooms Taxonomy :- Analyze

(1.1) A waveguide having dimensions $a = 5$ cm, $b = 2$ cm. The signal applied to waveguide is 10GHz. Determine the phase velocity, guide wavelength and mode of propagation. [6.0]

CO :- CO2

Blooms Taxonomy :- Understand

(1.2) Explain Magnetron in brief. [7.0]

(1.3) Explain Thin film Formation technique. [7.0]

CO :- CO3

Blooms Taxonomy :- Remember

(Q2) All Questions are compulsory [10.0]

(2.1) Explain tunnel diodes. [4.0]

CO :- CO4

Blooms Taxonomy :- Understand

(2.2) Explain IMPATT diode with neat diagram. [6.0]

CO :- CO4

Blooms Taxonomy :- Understand

OR [2.2 / 2.3]

(2.3) Explain working of Bipolar junction Transistor [6.0]

(Q3) All Questions are compulsory [10.0]

(3.1) Explain microwave applications [3.0]

CO :- CO5
Blooms Taxonomy :- Understand

(3.2) Discuss about the important considerations when making attenuation measurement. [7.0]

CO :- CO5
Blooms Taxonomy :- Understand

OR [3.2 / 3.3]

(3.3) Discuss in detail about measurement of Impedance [7.0]

(Q4) **Attempt any two out of three questions** [10.0]

(4.1) Write a short note on Microstrip Antenna. [5.0]

CO :- CO6
Blooms Taxonomy :- Apply

(4.2) Explain types of Feeding Methods. [5.0]

CO :- CO6
Blooms Taxonomy :- Apply

(4.3) Write a short note on Slotted Antenna. [5.0]

CO :- CO6
Blooms Taxonomy :- Apply
