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EC3301 ELECTRON DEVICES ANS CIRCUITS

IMPORTANT QUESTIONS

UNIT - I PN JUNCTION DEVICES.

2 - Mark

- 1. What is PN junction diode?
- 2. Write the structure of PN Junction Devices.
- 3. Define Rectifiers.
- 4. Write about Display devices.
- 5. Explain LED.
- What are Laser diodes.
- 7. Define Zener diode as regulator.

<u>13 - Mark</u>

- 1. Explain operation and V-I characteristics
- s.com 2. Describe diffusion and transition capacitance
- 3. Demonstrate Clipping & Clamping circuits.
- 4. Identify Half Wave and Full Wave Rectifier.
- 5. Describe the difference Zener diode characteristics- Zener diode Reverse characteristics.

UNIT - II TRANSISTORS AND THYRISTORS

2 - Mark

- 1. Narrate the expansion of BJT
- 2. What is JFET
- 3. Explain the full form of MOSFET, ,
- 4. Define structure of Transistors

<u>13 - Mark</u>

- 1. Explain characteristics and Biasing UJT
- 2. Identify Thyristors and IGBT -
- Describe Structure and characteristics of thyristors

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UNIT - III AMPLIFIERS

<u>2 - Mark</u>

- 1. What is CB?
- 2. Define CC amplifiers.
- 3. Demonstrate Gain and frequency response
- 4. Write about MOSFET small signal model

<u> 13 - Mark</u>

- 1. Explain BJT small signal model
- 2. Describe Analysis of CE
- 3. Write the Analysis of CS and Source follower
- 4. Explain High frequency analysis.

UNIT - IV MULTISTAGE AMPLIFIERS AND DIFFERENTIAL AMPLIFIER

2 - Mark

- 1. Define Differential amplifier
- 2. What is Common mode?
- 3. Explain FET input stages.
- 4. What are Single tuned amplifiers?
- 5. Point out any five Neutralization methods.
- 6. What are power amplifiers?
- 7. What are the Types of Qualitative analysis?

<u> 13 - Mark</u>

- 1. Explain BIMOS cascade amplifier.
- 2. Write about Common mode and Difference mode analysis.
- 3. Describe Gain and frequency response.
- 4. Explain Neutralization methods.

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UNIT - V FEEDBACK AMPLIFIERS AND OSCILLATORS

<u>2 - Mark</u>

- 1. What is voltage / current?
- 2. Write about Shunt feedback.
- 3. Demonstrate positive feedback.
- 4. Explain phase shift.
- 5. What is Wien bridge?
- 6. Define Hartley.

<u> 13 - Mark</u>

- 1. Explain the Advantages of negative feedback.
- 2. Describe Condition for oscillations.
- 3. Write about Colpitts and Crystal oscillators.

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