Chapter- 19
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Article: (19.1 - 19.3), 19.5

Topic:

① Definition and types of FET

② n- JFET construction working principle.

③ Characteristics curve of n-JFET (Output characteristics curve
(402 page Boylested)   স্টিকস এর অপর নাম
Drain charac.)

④ Difference between n- JFET, P-JFET and their symbols.

⑤ Pinch ~~drop~~ off voltage.

⑥ MOSFET and its types and symbol

⑦ Definition, construction, working principle of n-chanel - enhanced MOSFET. Characteristics curve of enhanced MOSFET.

Chapter-18

Article: 18.1, 18.2, 18.5, 18.6, 18.7, 18.9, 18.10, 18.11, 18.12

Topic:

① Switching circuit definition and types.

② Switching transistor operation (off, active, sat.)
(18.5 + 18.8)

③ Multivibrator definition and its types.

④ Astable and monostable multivibrator circuit details and operation.

Chapter-25

Topic:

① Definition of op-amp and its three stage.

② Ideal characteristics of op-amp.

③ Virtual ground concept.

④ Inventing op-amp, gain calculation, working.

⑤ Non-Inventing   "   "   "   .

⑥ Adder or summing amplifier, averager amplifier

⑦ op-amp integrator and differentiator.

Chapter- 13

Article: 13.1, 13.3, 13.4

Topic:

(i) What is feedback.

(ii) Positive and negative feedback.

(iii) Principle of negative feedback amplifier.

(iv) Derivation of the gain of negative feedback amplifier.

(v) Show that input impedence of an amplifier increases to negative feedback. ($Z'_{in} > Z_{in}$)

Chapter- 14

Topic:

(i) Electronic Oscillator and its essential components.

(ii) Oscillator and its types.

(iii) Different types of transistor oscillator (Only Name)

(iv) Heartly oscillator. (Circuit + Operation + Math)

Math Suggestion

JFET: 19.1, 19.2, 19.3, 19.5

MOSFET: Boylstad Page 405, 406 } Segment 01

Switching Circuit: OP Amp => 18.1, 18.2, 18.3, 18.4 => Segment-02

OP-Amp (25.25-25.28, 25.32-25.34, 25.44-25.47, 25.50, 25.51, 25.54, 25.55) => Segment-03

O.P-Amp Applications: 13.2-13.5, 14.5, 14.6 => Segment-04

Non-linear Circuit: 2 Maths in Sheet.