

SHAHEED BHAGAT SINGH STATE TECHNICAL CAMPUS, FEROZEPUR

ROLL No:

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Total number of pages: [4]

B.Tech. || EE || 3rd SEM.
Electronic Devices & Circuits

RP/

Subject Code: BTEE-304

Paper ID: M118

Time allowed: 3 Hrs

Important Instructions:

- All questions are compulsory
- Assume any missing data
- Additional instructions, if any

(2011-2014 batch)

Max Marks: 60

Q. 1. Short-Answer Questions:

- What are the materials used for doping for making P-type material?
- What do you mean by diffusion current?
- Why BJT is called current control device?
- What is the need of biasing in amplifiers?
- What are electronic clippers?
- Why the base region of BJT is lightly doped?
- Why positive feedback is used in oscillators?
- Discuss the applications of zener diode?
- What do you mean by an IC?
- What do you mean by peak inverse voltage.
- What do you mean by knee point in context of diode characteristics?

PART B (5×8marks)

- Q. 2. Discuss the working of center tap type full wave rectifier. CO1
- Q. 3. Discuss the working of common emitter amplifier circuit. CO2
OR
How the class A power amplifier works also give its applications.
- Q. 4. Describe the working of enhancement type MOSFET? CO3
OR
Discuss the working of a transistor as a switch.
- Q. 5. Discuss the working of current to voltage convertor. CO3
OR
Discuss the working of differential amplifier and integrating amplifier.
- Q. 6. Discuss the working of phase shift oscillator. CO4
OR
Discuss the working of monostable multivibrator using 555 timer.