Roll No:

BTECH

(SEM I) THEORY EXAMINATION 2021-22 BASIC ELECTRONICS

Time: 3 Hours

Total Marks: 70

 $2 \ge 7 = 14$

Note: 1. Attempt all Sections. If require any missing data; then choose suitably. **SECTION A**

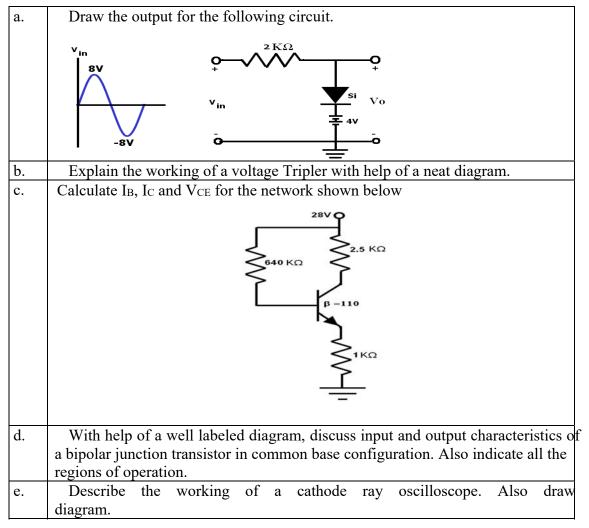
1. Attempt *all* questions in brief.

a.	Derive the relation between current amplification factor- alpha (α) and beta (β)
b.	Differentiate between Zener and avalanche breakdown.
c.	Write any two characteristics of an ideal operational amplifier.
d.	What are the advantages of frequency modulation over amplitude modulation?
e.	Differentiate between depletion and enhancement type MOSFET.
f.	Define the term slew rate.
g.	Draw the circuit of Zener diode as voltage regulator.

SECTION B

2. Attempt any *three* of the following:

7 x 3 = 21



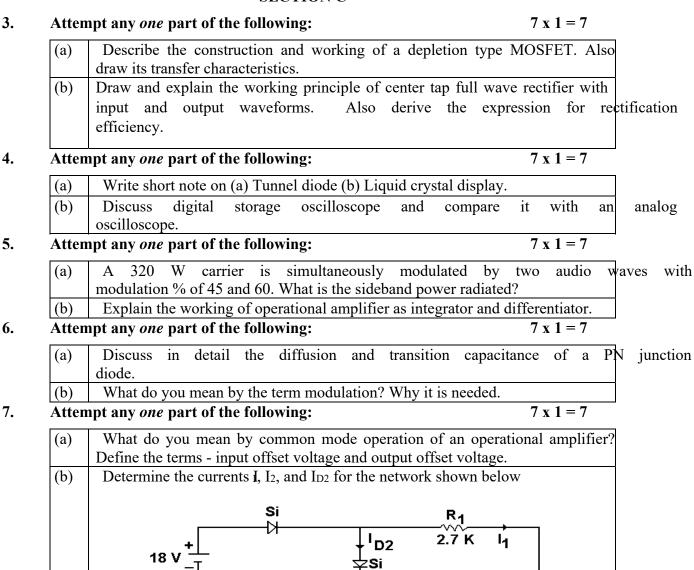


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Roll No:

SECTION C



 R_2

5.6 K

I2

