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S.B.	KOII	No

	ELECTRONICS-I	
	3 <sup>rd</sup> Exam/Elect/0525/Nov'18	
Duratio	on: 3Hrs.	M.Marks:75
O1 F:II	SECTION-A	15,4-15
•	in the blanks.	15x1=15
	The electronic components which cannot process the signal are called	
	The process of adding impurities in intrinsic semiconductor material is call Resistivity of a semiconductor lies between	
c. d.	The value of knee voltage for silicon diode is volts.	
u. e.	An ideal diode has reverse resistance.	
f.	A zener diode is always operated in the region.	
g.	Diode has a negative resistance.	
_	In a transistor, there arepn junctions.	
i.	The emitter of a transistor is doped	
j.	The biasing circuit which gives best stability to the Q point is	
k.	The ideal value of stability factor is	
l.	A transistor with its associated circuitry for amplification is called a	
	In an amplifier, power gain = current gain x gain.	<del></del> ,
	The point at which DC and AC load lines interact each other is called	
	A FET has three terminals namely; source, drain and	
	SECTION-B	
Q2. Att	5x6=30	
i.	What are practical and ideal current and voltage sources?	
ii.	List the main differences between intrinsic and extrinsic semiconductors?	
iii.	Draw and explain V-I characteristics of P-N junction diode.	
iv.	What is the use of filter circuit? List different types of filters.	
٧.	What do you mean by Saturation, Cut-off and Active regions?	
vi.	What are different types of couplings used in transistor amplifier?	
vii.	Write advantages and disadvantages of FET.	
	SECTION-C	
23. Att	empt any three questions.	3x10=30
	With the help of circuit diagram and waveforms, explain the functioning of	f a full-wave rectifi
	Explain zener diode, its characteristics and applications.	
_	Draw and explain the circuit of common emitter configuration of transiste	ar and its character

- c. Draw and explain the circuit of common-emitter configuration of transistor and its characteristics.
- d. Describe the construction, operation and characteristics of FET with suitable diagrams.