No. of Printed Pages : 4 Roll No		170927	Q.7 Filter circuits are used to reduce
			Q.8 Value of knee voltage for Ge diodeV
		t.	(0.7, 0.3)
		s - I	Q.9 CE transistor has high gain. (True/False)
Time : 3 Hrs. M.M. : 100 <b>SECTION-A</b>		M.M.: 100	Q.10 region, both junctions are forward
			biased. (Saturation, cutoff)
Note: Objective type questions. All questions are			SECTION-B
	compulsory	(10x1=10)	Note: Very short answer type questions. Attempt any
Q.1	Centre Tap transformer is use	ed in	ten questions out of twelve questions. 10x2=20
	wave rectifier.		Q.11 Why FET is unipolar transistor.
Q.2	Free electrons exist in band. (Valence, Conduction)	Q.12 Define voltage and power gain.	
		Q.13 Define light emitting diode.	
Q.3	JFET stands for		Q.14 Define Diffusion current.
Q.4	Efficiency of half wave rectifie	eris	Q.15 What is transistor biasing.
Q.5	Point of intersection of DC and AC load line is		Q.16 Two advantages of FETS.
	,		
Q.6	MOSFET has	terminal.	Q.17 What is forward biasing of a diode.
	(two, three)		Q.18 Define barrier potential.
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- Q.19 Give applications of transformer coupled amplifier.
- Q.20 Give symbol of Zener diode.
- Q.21 Define input and output impedance.
- Q.22 What are multistage amplifiers.

## **SECTION-C**

- **Note:** Short answer type questions. Attempt any eight questions out of ten questions. 8x5=40
- Q.23 Explain voltage divider biasing circuit.
- Q.24 Explain full wave rectifier working.
- Q.25 Explain loading effect in multistage amplifiers.
- Q.26 Explain DC coupled amplifier working.
- Q.27 Explain CC configuration input and output characteristics.
- Q.28 How to find voltage gain of single stage amplifier using its characteristics.
- Q.29 Give operation of N-channel JFET and its characteristics.

(3)

- Q.30 What is junction transistor and its types. Explain.
- Q.31 Explain effect of coefficient of coupling on frequency response of transformer coupled amplifier.
- Q.32 Explain emitter follower circuit.

## **SECTION-D**

- **Note:**Long answer type questions. Attempt any three questions out of four questions. 3x10=30
- Q.33 Explain various types of filter circuits and their applications.
- Q.34 Explain MOSFET and its types and characteristics.
- Q.35 Explain H-parameters of a transistor.
- Q.36 Explain RC coupled amplifier and its frequency response and applications.

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