

Government of Karnataka
 Karnataka School Examination and Assessment Board (KSEAB)
 Blueprint for Model Question Paper – 3

Subject: II PUC Electronics (40)

Academic Year: 2024-25

	Chapters	Hour	Marks	Remember (35%)				Understand (35%)					Apply (20%)				HOTS	
				MCQ	SA	LA	LA	MCQ	FIB	SA	LA	LA	MCQ	SA	LA	LA	LA	LA
				1M	2M	3M	5M	1M	1M	2M	3M	5M	1M	2M	3M	5M	5M	5M
1	Field Effect Transistor (FET)	04	04	1								1						
2	Transistor Biasing	03	03		1			1										
3	Transistor Amplifiers	14	12	1						1*			1E				1N	
4	Feedback in Amplifiers	06	06			1		1							1N			
5	Operational Amplifiers	15	13	1				1E	1	1*							1N	
6	Oscillators	08	07	1						1*		1			1N			
7	Wireless Communication	04	04					1				1						
8	Modulation and Demodulation	15	12	1		1				1*	1						1N	
9	Power Electronics and its applications	08	06	1								1				1N		
10	Digital Electronics	18	18	1				1E		1*	1			1		1N	1N	
11	Microcontroller	10	08		1				1				1E					
12	C Programming	09	06	1				1E										
13	Modern Communication Systems	06	06	1		1						1						
Total		120	105	9	4	9	15	5	5*	08	09	10	01	04	06	10	10	
				37				37					21				10	

* – Fill in the blank,

HOTS – Higher order thinking,

E –Essay type Question,

N-Numerical Problem

Question Paper Pattern
Subject: II PUC Electronics (40)

Parts	Marks per Question	Total Questions given including choices	Questions to be answered
Part A – I (MCQ)	1	$15Q \times 1M = 15$	$15Q \times 1M = 15$
Part A – II (Fill in the Blanks)	1	$5Q \times 1M = 05$	$5Q \times 1M = 05$
Part B - III	2	$8Q \times 2M = 16$	$5Q \times 2M = 10$
Part C - IV	3	$8Q \times 3M = 24$	$5Q \times 3M = 15$
Part D - V Section I (Essay Type)	5	$5Q \times 5M = 25$	$3Q \times 5M = 15$
Part D - VI Section II (Numerical)	5	$4Q \times 5M = 20$	$2Q \times 5M = 10$
		105	70

Guidelines to question paper setters

Q No. 27 Short answer from microcontroller (meanings of mnemonics to be avoided).

Q No. 34 Numerical on HWR or FWR for the given rms voltage.

Q No. 35 Numerical (excluding POS).

Q No. 37 Working of any one amplifier circuit.

Q No. 38 Derivation on any one op-amp circuit.

Q No. 40 ALP program (from the specified programs in the syllabus).

Q No. 41 C program (from the specified programs in the syllabus).

Q No. 42 Numerical on transistor r_e' model (only silicon transistor).

Mention $V_{BE} = 0.7$ V and $r_e' = 26mV/I_E$ in the problem.

Q No. 43 Numerical on applications of OP-Amp (excluding differentiator and integrator).

Q No. 44 Numerical on AM.

Q No. 45 Numerical on four variable K-map (two groups).
