Reg. No.:												
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Question Paper Code: U8462

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2024

One credit

Electronics and communication Engineering

21UEC862 - PCB DESIGN

(Regulations 2021)

(Common to All Branches)

		(Commo	ii to i iii bitanenes)			
Du	ration: 1.30 hours				Maximum: 30) Marks
		Answe	r ALL Questions			
		PART A -	$(30 \times 1 = 30 \text{ Marks})$	s)		
1.	PCB stands for					CO1 U
	(a) printed circuit b	oard	(b) printed copper	r board	1	
	(c) polymerized cop	oper board	(d) None of these			
2.	The Selection of res	sistors depends up or	1			CO1 U
	(a) voltage	(b) current	(c) both a &b		(d) None of these	
3.	The diode used for	rectifier circuit is				CO1 U
	(a) 1N4001	(b) 1N5001	(c) 1N 8086		(d) None of these	
4.	The transistor is act	as a				CO1 U
	(a) switch	(b) on a device	(c) off a d	levice	(d) None of these	
5.	The most popular for	orm of IC package is				CO1 U
	(a) DIL	(b) Flatpack	(c) TO-5		(d) None of the ab	ove
6.	The 555 timer is use	ed for				CO1 U
	(a) pulse generation	(b) puls	se mod	ulation		
	(c) pulse demodulat	(d) pulse width modulation				
7.	The ic 7809 is used	for				CO1 U
	(a) providing consta	ant voltage	(b) prov	viding	constant current	

(d) none of these

CO1 U

(c) both a&b

8. The Varactor diode is usually

	(a) Forward biased	l	(b) Unbiased (d) none of these				
	(c) Holes and Elec	etrons					
9.	LDR stands for				CO1 U		
	(a) light dependent	t resistor	(b) light depe	ndent resonator			
	(c) long delay resis	stor	(d) light delay	y resistor			
10.	In power supply un	nit the capacitor is us	ed for		CO1 U		
	(a) filter (b) drop down noise v	voltage (c) both a&b	(d) none of these			
11.	Before the iron pro	ocess the PCB called			CO1 U		
	(a) Fixed board	(b) brass board	(c) Copper clad board	(d) silver board			
12.	Component placed	l only on top side cal	led		CO1 U		
	(a) Multilayer	(b) Single layer	(c)Double layer	(d)Three layer			
13.	Used for so	oldering			CO1 U		
	(a) Ferric chloride	(b) Ferrous chloric	le (c) sio2	(d) carbon			
14.	Modern devices ar	re used as			CO1 U		
	(a) Single	(b) Double layer	(c) layer	(d) Multilayer			
15.	A resistor with col have a value	lour bands Red, Viole	et, Green and Black will		CO1 U		
	(a) 27 K \pm 10% K	(b) $2.7 \text{ M} \pm 20\%$	K (c)270 $K \pm 5\%$ K	(d)2.7 K \pm 2% K			
16.	If two resistor are	connected in series, i	s the final resistance:		CO1 U		
	(a) Higher	(b) Lower	(c) Same	(d) Not determined			
17.	Thermocouple is a	type of			CO1 U		
	(a) Switch	(b) Resistor	(c) Rectifier	(d) Diode			
18.	Which switch mad	le an electromagnet			CO1 U		
	(a)Transistor	(b) MOSFET	(c) SCR	(d) Relay			
19.	If we connect the o	capacitor in parallel,	it act as		CO1 U		
	(a) Storage device	(b) Filter	(c) Switch	(d) Charging/Discha	arging		
20.	Which produce ma	agnetic flux			CO1 U		
	(a) Condensor	(b) Iron	(c) Inductor	(d)Transistor			

21.	Which chemical is	used for etching pro	ocess		CO1 U
	(a) ferric chloride	(b) sulphuric acid	(c) ferrous sulphate	(d) hydrochloric a	cid
22.	IC stands for				CO1 U
	(a) integrated circuit	it	(b) intelligence circuit		
	(c) intensive circuit	:	(d) internal componen	t	
23.	LED stands for				CO1 U
	(a) light emitting diode		(b) light emitted displa		
	(c) liquid emitted d	isplay	(d) Liquid emitted dio		
24.	The most popular f	orm of IC package is	S		CO1 U
	(a)DIL	(b) Flat pack	(c)TO-5	(d)None of the abo	ove
25.	In a ac house hold a	Hz	CO1 U		
	(a) 230	(b) 220	(c) 50	(c) 60	
26.	Define ohm's law				CO1 U
	(a) V=IR	(b) V=I/R	(c) V=R/I	(d) I=VR	
27.	Example for semice		CO1 U		
	(a) Diode	(b) Resistor	(c) Capacitor	(d) Inductor	
28.	. LM-293(H-bridge) act as a driver circuit for				
	(a) Motor	(b) Rectifier	(c) Condenser	(d) None	
29.	Which controlling to		CO1 U		
	(a) Potentiometer	(b) Diode	(c) Rectifier	(d) IC	
30.	Sensors used to det		CO1 U		
	(a) optical sensors		(b) ultrasonic proxi		
	(c) capacitive proxi	mity sensors	(d) Inductive proximity sensors		