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						nyofibrils: filament	
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)			is bis	ected	•	rk line ca	lled:
	A) I-	band			C	C) A-line	
	B) M	[-line			Γ) Z-line	
	○ A	ОВ	\circ c	O D			
3)	The c	entral th	ick filan	nents ex	tend th	e entire leng	oth of the
•	A) A					n filament	5
	B) I b	and			D) H zo	one	
	○ A	ОВ	○ c	O D			
4)	Cyto	plasm	of the	musc	le is ki	nown as:	
	•	xoplası				C) Sarcole	emma
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٥,	Overl	anning	of thick	and th	in filar	nents occui	rs in·
o)	A) I-b		or thick	u tll	C) M-t		
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7)				owing c	hanges	occur when	ı skeleta
		le contra and shor		1.7			
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٥,	X 75:-	h one	of the	follows	ng nor	t of sarco	more te
B)	isotro		от тие	TOHOMI	rg har	e or sarcol	mere is
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٥,	It is a	red nic	ment t	hat eta	res ovv	gen in mus	cle cell:
3)		emoglob		nat Stu	C) My	_	cie cen:
		yoglobir			D) Ac		
	○ A		Ос	() D	-		
10	(·	-		neter (,	yofibril:	
		10-100	•			C) 16-18	•
	B) 1	1-2 µm				D) 7-8 μι	m
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A) A-band of sarcomere B) I-band of sarcomere D) M-line of sarcomere D) Left side of the sarcomere	11)			larize visi			
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	B)	Cramp			D) Tetanus	
0	Α	ОВ	○ c	O D		
23)		led togeth		of two	long polypeptide chai	ns
		Troponin Tropomyo	sein) Actin) Myosin	
0	Α		⊝ C) Myosiii	
11	Tw	isting ar	ound the	actin c	hains are two strands	of
24)		ther prot		uctin c	mans are two straines	•
		Troponin			C) Myosin	
0	<i>Б)</i>	ropomyo ⊝ B	osin	O D)) Myoglobin	
25)					portion of the adjac	ent
		elope of s Z-line	sarcopias		culum form: C) H-zone	
		Triads			O) T-system	
0	Α	ОВ	\circ c	\bigcirc D		
	A) I B) S	coplasm v Myofilam Sarcoplasi	which is c ent nic reticu	alled: C lum D	running through (2) Z-lines (3) Transverse tubules (4) In muscle contraction	inc
21)	ther			so be pro	oduced by? Glycogen	
	-	Creatine ph	osphate		Lactic acid	
0	Α	ОВ	\circ c	\bigcirc D		
28)				lation in	ı skeletal muscles cau	ses:
		Muscle f	fatigue		C) Atrophy	
\cap	. A В)	Tetany O B	ОС	O D	D) Cramp	
		J 2	J •	J 2		
29)		_			on of muscle leads	to:
			fatigue		C) Cramp	
	B)	Muscle	atrophy	7	D) Tetany	
0	Α	ОВ	○ c	O D		
30)	SL	eletal n	nuscles a	are:		
		Unstrip			C) Involuntary	
		Volunta			D) Earliest	
0	A		○ c	O D	_ ,	
	XX/L					_
Z1\		100 100	ic occom	tial for	muscle contractio	nº
31)			is essen	tial for	muscle contractio	n?
31)	A) :	Sodium		tial for	C) Potassium	n?
	A) (B) (Sodium Calcium				n?
•	A) :	Sodium		tial for ○ □	C) Potassium	n?

32)	A) Ao sli B) W fi C) W	ctin and a de pass of hen myo laments of hen myo	myosin fi each other filaments do not sho filaments	laments s slide pa orten s slide pa	ass each other actin	
	D) A		myosin f		osin filaments do not shorten ts shorten and slide pass	
0	Α	\bigcirc B	\circ c	\bigcirc D		
33)	A) Par		n two H-l		Part between two I-bands Part between two Z-lines	
0	Α	ОВ	\circ c	\bigcirc D		
34)	A) A		ource of		for muscle contraction is: C) Creatine phosphate D) Sucrose	
0	Α	ОВ	\circ c	\bigcirc D		
35)	be ge	nerate b rebs cycl	y:	C	erobic conditions ATP can C) Glycolysis D) Pyruvic acid oxidation	
\circ	Α	ОВ	\circ c	O D		
36)	A) A	ll or nor	e princip	ole	C) All or two principle D) All or three principle	
	Α	ОВ	ОС	O D	•	
37)	tubul A) M		ling throu	ighout t C	ntinuous system of sarco- the sarcoplasm around the: C) Myofibrils D) Thick filaments	
0	Α	ОВ	\bigcirc c	\bigcirc D		
38)	the mincres A) Gl B) Ca	uscle fil	res, as v	vell as r d fiber s C	ly, capillaries surrounding mitochondria within them synthesizes more: C) Hemoglobin D) Myoglobin	
	T-:-		. •			
39)	A) Sr	eps and nooth celetal	oiceps ai		nples of muscles: C) Cardiac D) Antagonistic	
	Α	ОВ	○ c	OD		
40)	Eac	h liohí	band	of sar	comere is called:	
	A) A	A band band			C) H zone D) Z line	
0	Α	ОВ	○ c	\bigcirc D		
41)	Tern	n Zwis	hen sta	ands f	or:	
	A) B				C) Top	
		etween	l		D) Bottom	
0	Α	ОВ	\bigcirc C	\bigcirc D		

42)	Myofila	ment is	made uj	of:	
		filame	nt only	C) Thi	n filament only
	B) Thick	filame	nt only	D) Thi	ck and thin filament both
0	A O	В	O C	(D	
471	1	is the d	end of m	uscle which	ch remain fixed when
43)	muscle o				
	A) Inser			C) Be	ellv
	B) Origi				endon
	A 0		\cap C	O D	
	^	В	00		
	-			_	
44)	The ac	ctin m	iolecul	e has	chains:
	A) Tw	0			C) Four
	B) Thr	ee			D) Five
0	A ()	В	O C	O D	
455	When r	nusclo	ie roanir	ed to contr	act calcium ions bind
45)	with?	nuscie	is requir	eu to conti	act calcium ions omu
	A) Actin	n		C) Tr	oponin
	B) Myo			-	ropomyosin
			\circ	150	- P
0	A ()	В	○ c	00	
		:	J.J.4. b.	l. 4b. 25	l- b -4 4b
46)	h-11	_		reak the III	k between the myosin
	bridge a		acun:	C) C	1
	A) NAD	,			alcium
	B) ATP			D) M	yoglobin
0	A O	В	○ c	\bigcirc D	
47)	Sarcole	mma	is prese	nt aroun	d:
	A) Myo) Muscle cell
	B) Myo) Muscle bundle
		110111		_) 1/145010 0411410
	,	В	\bigcirc \bigcirc		
0	A 0	В	○ c	\bigcirc D	
	A 0				_
	A 0			s consist	of:
	A O	nyofil	lament		
	Thin m A) Ac	nyofi l tin, M	l ament Iyosin,	s consist	n
	Thin m A) Act B) Act	nyofil tin, M in, Tr	l ament Iyosin, opomy	s consist Troponia osin, Tro	n oponin
	Thin n A) Act B) Act C) Act	nyofil tin, M in, Tr in, Tr	lament Iyosin, opomy opomy	s consist Troponia osin, Tro osin, He	n pponin moglobin
	Thin n A) Act B) Act C) Act	nyofil tin, M in, Tr in, Tr	lament Iyosin, opomy opomy	s consist Troponia osin, Tro	n pponin moglobin
48)	Thin n A) Act B) Act C) Act	nyofil tin, M in, Tr in, Tr in, M	lament Iyosin, opomy opomy	s consist Troponia osin, Tro osin, He	n pponin moglobin
48)	Thin n A) Act B) Act C) Act D) Act	nyofil tin, M in, Tr in, Tr in, M	lament Iyosin, opomy opomy yoglob	s consist Troponia osin, Tro osin, Hea in, Tropo	n pponin moglobin
48)	Thin n A) Act B) Act C) Act D) Act	nyofil tin, M in, Tr in, Tr in, M	lament Iyosin, opomy opomy yoglob oc	s consist Troponia osin, Tro osin, Hea in, Tropo	n oponin moglobin onin
48)	Thin n A) Act B) Act C) Act D) Act A It refers	nyofil tin, M in, Tr in, Tr in, M B	lament Iyosin, opomy opomy yoglob oc	s consist Troponin osin, Tro osin, Hen in, Tropo of the body	n oponin moglobin onin v after death, which is
48)	Thin n A) Act B) Act C) Act D) Act A It refers characte	nyofil tin, M in, Tr in, M B to a co	lament Iyosin, opomy opomy yoglob oc	s consist Troponing Osin, Tropo Osin, Tropo O O O O O O O O O O O O O O O O O O	n oponin moglobin onin v after death, which is
48)	Thin n A) Act B) Act C) Act D) Act A It refers characte A) Cram	nyofil tin, M in, Tr in, M B to a co	lament Iyosin, opomy opomy yoglob oc	s consist Troponinosin, Tropo osin, Hen in, Tropo of the body c) Rig	oponin moglobin onin after death, which is gor mortis
48)	Thin n A) Act B) Act C) Act D) Act A It refers characte A) Cram B) Tetan	nyofil tin, M in, Tr in, Tr in, M B to a co crized b	lament lyosin, opomy opomy yoglob c ondition oy stiffne	s consist Troponia osin, Tro osin, Her in, Tropo of the body ess of body C) Rig D) Sp	oponin moglobin onin after death, which is gor mortis
48)	Thin n A) Act B) Act C) Act D) Act A It refers characte A) Cram	nyofil tin, M in, Tr in, Tr in, M B to a co crized b	lament Iyosin, opomy opomy yoglob oc	s consist Troponinosin, Tropo osin, Hen in, Tropo of the body c) Rig	oponin moglobin onin after death, which is gor mortis
48)	Thin n A) Act B) Act C) Act D) Act A It refers characte A) Cram B) Tetan A	nyofil tin, M in, Tr in, M B to a co crized b p y B	lament lyosin, opomy opomy yoglob c ondition oy stiffne	s consist Troponin osin, Tro osin, Hen in, Tropo of the body ess of body C) Ri D) Sp	oponin moglobin onin v after death, which is gor mortis asm
48)	Thin n A) Act B) Act C) Act D) Act A It refers characte A) Cram B) Tetan A Stimulati	nyofil tin, M in, Tr in, Tr in, M to a co crized to p y B	lament lyosin, opomy opomy yoglob c ondition c muscle fi	s consist Troponin osin, Tro osin, Her in, Tropo of the body c) Ri D) Sp of D	oponin moglobin onin after death, which is gor mortis
48)	Thin n A) Act B) Act C) Act D) Act A It refers characte A) Cram B) Tetan A Stimulati A) The ne	nyofil tin, M in, Tr in, Tr in, M to a co crized b p y B ion of a curomu	lament lyosin, opomy opomy yoglob c odition c muscle fil scular jur	s consist Troponin osin, Tro osin, Her in, Tropo of the body c) Ri D) Sp of D	oponin moglobin onin v after death, which is gor mortis asm
48)	Thin m A) Act B) Act C) Act D) Act A It refers characte A) Cram B) Tetan A Stimulati A) The n B) The tr	nyofil tin, M in, Tr in, Tr in, M b to a co crized to p y B ton of a curomu ansvers	lament lyosin, opomy opomy yoglob c ondition c muscle fil scular jur e tubules	s consist Troponin osin, Tro osin, Her in, Tropo of the body c) Ri D) Sp of D	oponin moglobin onin v after death, which is gor mortis asm
48)	Thin m A) Act B) Act C) Act D) Act A It refers characte A) Cram B) Tetan A Stimulati A) The m B) The tr C) The m	nyofil tin, M in, Tr in, Tr in, M to a co erized to p y B ton of a euromu ansvers	lament lyosin, opomy opomy yoglob c odition c muscle fil scular jur e tubules	s consist Troponinosin, Tropo osin, Her in, Tropo of the body C) Rig D) Sp ober by a monetion	oponin moglobin onin v after death, which is gor mortis asm
48) 49) 50)	Thin m A) Act B) Act C) Act D) Act A It refers characte A) Cram B) Tetan A Stimulati A) The m B) The tr C) The m D) The sa	nyofil tin, M in, Tr in, Tr in, M b to a co crized l p y B ton of a curomu ansvers cyofibri arcoplas	lament lyosin, opomy opomy yoglob c ondition c muscle fil scular jur e tubules l smic retic	s consist Troponic osin, Tro osin, Her in, Tropo of the body C) Ri D) Sp of the body c) Ri and D) Sp of the body c) Ri and D) Sp	oponin moglobin onin v after death, which is gor mortis asm
48) 49) 50)	Thin m A) Act B) Act C) Act D) Act A It refers characte A) Cram B) Tetan A Stimulati A) The m B) The tr C) The m	nyofil tin, M in, Tr in, Tr in, M b to a co crized l p y B ton of a curomu ansvers cyofibri arcoplas	lament lyosin, opomy opomy yoglob c odition c muscle fil scular jur e tubules	s consist Troponinosin, Tropo osin, Her in, Tropo of the body C) Rig D) Sp ober by a monetion	oponin moglobin onin v after death, which is gor mortis asm
48) 49) 50)	Thin m A) Act B) Act C) Act D) Act A It refers characte A) Cram B) Tetan A Stimulati A) The m B) The tr C) The m D) The sa	nyofil tin, M in, Tr in, Tr in, M b to a co crized l p y B ton of a curomu ansvers cyofibri arcoplas	lament lyosin, opomy opomy yoglob c ondition c muscle fil scular jur e tubules l smic retic	s consist Troponic osin, Tro osin, Her in, Tropo of the body C) Ri D) Sp of the body c) Ri and D) Sp of the body c) Ri and D) Sp	oponin moglobin onin v after death, which is gor mortis asm

51)	The reactivity of halogens with alkanes falls in the order of:
	A) $I_2 < F_2 < Cl_2 < Br_2$ C) $F_2 < Cl_2 < Br_2 < I_2$ B) $I_2 < Cl_2 < F_2 < Br_2$ D) $I_2 < Br_2 < Cl_2 < F_2$
0	A
52)	Consider the following statements: I. Markownikov's rule is sometimes phrased "the richer get richer"
	II. Substituents in IUPAC system are listed in alphabetical order III. The main molecular forces present in alkenes are
	Van der Waal's forces IV. Alkenes are prepared in the laboratory by
	dehydration of alcohols Which of the above statements is/are correct?
	A) I only C) III and IV B) II only D) I, II, III and IV
0	A
53)	Catalytic hydrogenation of alkenes is used: A) For manufacture of vegetable ghee from vegetable oil in the industry only B) As a synthetic as well as analytical tool in the
	laboratory only C) Both 'A' and 'B' D) Neither 'A' nor 'B'
0	A
54)	Which of the following reaction shows free radical substitution reaction? A) Nitration of benzene in the presence of conc. H ₂ SO ₄ at 50 - 55°C B) Chlorination of benzene in the presence of FeCl ₃ C) Hydrogenation of benzene in the presence
	of Ni at 200°C D) Chlorination of toluene in the presence of sunlight
0	A
55)	Which of the following is not use of methane? It is used: A) As a fuel B) For the preparation of carbon black which is used in paints, printing inks and automobile tyres C) For the manufacture of urea fertilizer D) As a general anesthetic substance
0	A
56)	Benzene does not undergo: A) Polymerization process only B) Elimination reaction only D) Neither 'A' and 'B' D) Neither 'A' nor 'B'
0	
57)	Which of the following is not correct name according to IUPAC system of the given structures? A) Cooh Cooh Cooh Cooh A: Cooh Cooh Cooh Cooh Cooh A: Cooh Cooh
	A) Carrier 2-Aminobenzaldehyde C) Carrier 3-Hydroxybenzoic acid C) Carrier 3-Hydroxybenzoic C
0	A
58)	Consider the following reaction: Ethyl alcohol $\xrightarrow{\text{cont.H,SO}_4} X \xrightarrow{\text{Et}_2} Y \xrightarrow{\text{akoholik}} Z$
	Which of the following is correct sequence for the product shown as: X, Y, Z? A) Ethene, 1,2-Dibromoethane, Ethyne B) Ethane, 1,2-Dibromoethene, Ethyne C) Ethyne, 1,2-Dibromoethene, Ethane
	D) Ethyne, ethane, 1,2-Dibromoethane

59)		rect descript tive charge	to form 1,2-dibromoethane: ion of the organic intermediate in this reactio C) It is a nucleophile D) It is an electrophile	n?
0	А () В	○ c	○ D	
60)	How does the with that in et A) The carbon B) The carbon C) The carbon	carbon-carb hene? -carbon bond -carbon bond -carbon bond	ives polythene: on bond in polythene compare is longer and stronger in polythene is longer and weaker in polythene is shorter and stronger in polythene is shorter and weaker in polythene	
0	А ОВ	ОС	○ D	
01)		nd results in	hane occurs in a limited supply of the formation of: C) CO ₂ + C	
	B) CO ₂ + CO		D) C + H ₂ O	
0	А ОВ	ОС	○ D	
62)	A) Reduction of of Ni at 200 B) Bromination	of benzene wi of act as a can of benzene 3,4,5,6-Hexal B	tent for the reactions of benzene: th H ₂ gas in the presence ttalyst to form cyclohexane in the presence of sunlight bromocyclohexane	
0		○ c	O D	
63)	quality of poly I. Temper II. Pressur III. Amoun	thene as a re rature 400°C re 100atm it of oxygen (st Al(C ₂ H ₅) ₃	0.1%	
0	А ОВ	ОС	○ D	
64)		ilkanes are to on? on	ction of sodium/potassium hydroxide reated, an alkene is formed. What we C) Debromination D) Reduction of benzene	
0	A	\circ c	○ D	
65)	Aromatic hydr A) Normal serie B) Alkenes C) Benzene D) Cyclohexane	es of paraffin	e derivatives of:	
0	A	○ c	O D	
66)	Which of the for A) In sigma box	ollowing is n nd the electro tivity different t as electroph	offins, which means that they are least reactive of cause of their least reactivity? In some very tightly held between the nucleic ce between C and H in alkane is less than 0.5 tiles	ve.
0	А ОВ	○ c	○ D	
67)	During nitration A) N ₂ O B) NO ₂ ⁺	n of benzen	e, the active nitrating agent is: C) NO ₂ D) HNO ₃	
0	А ОВ	○ c	○ D	
	Which of the f	llowing is -	ore reacting substance?	
68)	A) Ethane	ollowing is m	ore reacting substance? C) Methane	
		ollowing is m		

69)	stable molecule.	onance en	ergy, greater is the stability.	
	A) -150.5kJmol ⁻¹ B) +150.5kJmol ⁻¹		C) -358kJmol ⁻¹ D) +358kJmol ⁻¹	
0	А ОВ	\circ c	○ D	
70)		0		
			group in benzene is called:	
	A) Alkylation B) Formylation		C) Acetylation D) Carbonyl reduction	
0		\circ c	○ D	
71)			ctions will yield 2-Bromopropane?	
,	57.5		C) CH = CH + 2HBr	
			D) $CH_3 - CH = CH_2 + HBr$	
0	A OB	ОС	○ D	
72)	Which of the follo of benzene?	wing is re	esonance hybrid structure	
	A) (C) ·	
	B)		D) (
0	А ОВ	\circ c	○ D	
	shown in the follor R-Cl+Alo This can occur be A) AlCl ₃ is a cova B) AlCl ₃ exist in tl C) Al-atom in AlC of electrons D) Cl-atom in R-C	wing equal $Cl_3 \rightarrow R^+ +$ ecause: lent molecular dimeric l_3 has an in	AICI 4 cule form (Al ₂ Cl ₆) ncomplete octet	
0	A OB	O C	O D	
74)	Which one of the A) 1-Butene B) Cis-2-Butene		is more stable alkene? C) Trans-2-Butene D) 1,3-Butadiene	
0	А ОВ	\circ c	○ D	
75)	extensive delocalize	zation of e es does no hod treatment o ry	ry stable molecule. This stability is due the electron cloud. Which of the following ot explain the stability of benzene:	
0	A	⊖ c	○ D	
76)	Which one of the methane and chlo A) Cl ₂ → 2Cl* B) CH [*] ₃ + HCl → 0	rine?	is a propagation step in the reaction between	
	C) $CH_3 + HCI \rightarrow C$ D) $CH_2CI + HCI$	CH ₃ Cl + Cl	r	
0	A	○ c	○ D	
77)	A) C ₂ H ₂	ent). What co C) C7H		
0	B) C ₂ H ₄	D) C ₁₀ I		
	. 0 6	00	○ D	

78)	Which reaction	is not an ele	ectrophilic additio	on?
	A) $CH_2 = CH_2$ B) $CH_1 = CH_2$			
	C) CH CH = CI	1 ₂ + Br ₂ —	→CH ₃ CHBrCH ₂ B	r
	D) CH-COCH	+ HCN	CH_SO ₄ → CH ₃ CH	(OH)CH ₃
	D) CH3COCH3	THCN—	CH ₃ C(OH)CN	
			CH ₃	
0	A	\circ c	OD	
	-			
79)	The major prod	uct obtained	when hypochlore	ous acid is
	A) 2-Chloro-1-hy	ydroxy-2-me	thyl butane	
	B) 1-Chloro-2-m	ethyl-2-buta	nol	
	C) 1-Chloro-3-hy D) 3-Chloro-2-hy	/droxy-2-me /droxy-2-me	thyl butane	
0	A OB	() C	O D	
			0.5	
80)	Which of the fo	llowing is n	ot ortho and para	directing groups
00)	A) -INH2		C) -OH	anceing group.
	B) -OCH ₃		D) -SO₃H	
	A B	\circ c	○ D	
	Posth mosth			
81)	A) C ₂ H ₄	nd ethane ca	in be prepared in C) CH3B1	one step by the reaction of:
	B) CH ₃ CH ₂ OH		D) CH ₃ OH	
0	A	O C	O D	
	A) 2 B) 3		C) 1 D) 4	
	A OB	○ C	○ D	
071	Which of the fo	llowing speed	in 2 5 (t.)	45
83)	when second gr	oup is intro	ties are 3,5 (meta) duced into the ber	directing groups azene ring?
	I = -NH ₂ III = -COOH		II = -CHO	•
	A) II, III and IV		$IV = -CH_3$ C) I and IV	
	B) II and III		D) I, II and IV	
	A	○ C	\bigcirc D	
	In the reaction	of ethene w	th bromine the in	termediate formed is:
84)	A) CH ₂ CH ₂	or cinene w	C) CH ₂ - CH ₂	ter mediate formed is:
	Br ⁺		Br	
	CH ₂ - CH ₂			
	B) Br		D) CH ₂ —CH ₂	
			2.	
0	A	ОС	OD	
85)		(ethane) and	does not help us to l alkene (ethene)?	distinguish
	C) Br ₂ / CCl ₄ test		ride test	
			O D	

86) An electric current of 2 A is passing through a cross section of the coil in 1 second. How many electrons are involved in providing a current of 2 A? The charge on one electron is 1.602×10-19 C. C) 2.2 ×1016 A) 3.21 ×10¹⁸ B) 1.25 ×1019 D) 6.25 ×1018 \bigcirc B (D A O C 87) A student measures a current as 0.25 A. Which of the following correctly expresses this result? A) 25 mA C) 25 MA D) 250 mA B) 250 MA O C O D 88) A wire of resistance 48 Ω is bent in the form of an equilateral triangle. The resistance between two vertices is: C) 10.6 Ω A) 9.7 Ω B) 11.9 Ω D) 12.4 Ω O C (D A potential divider is used to give outputs of 5.0 V and 7.5 V from a 10 V source, as shown in figure: -o 5.0 V R OUV nvo Which combination of resistances, R1, R2, R3 gives the correct voltages? $R_1(k\Omega)$ $R_2(k\Omega)$ $R_3(k\Omega)$ A) B) C) 3 2 2 D) 3 2 3 O B O C O D A A copper wire of resistance 2R is cut into ten parts of equal length. Two pieces each are joined in series and then five such combinations are joined in parallel. The new combination will have a resistance: A) 2R O A \bigcirc B O C For which device the conductance is greater? Device-A A) Device - A C) Both have same conductance B) Device - B D) Device - B has zero conductance A O C B (D The effective resistance of the network shown is: -νννν ~~~~

93)	Three resistances, each of 6 Ω are connected to form a triangle. The resistance between any two terminals is: A) 4Ω C) 12Ω B) 8Ω D) 18Ω									
0	A	ОВ		O D						
94)		l length. T	he resistan	stretched t ce of new w C) 4 Ω D) 16 Ω	o twice its vire will be:					
0	Α	ОВ	\circ c	\bigcirc D						
95)	A) Are B) Phy C) Nati	sistance of a of cross so sical state of ure of condi- of these	ection of co of conductor		ı:					
0	Α	ОВ	ОС	O D						
96)	resistar	ace of 3 Ω al but of ra	What lengt dius 2 mm	th of a wire will also hat C) 120 m D) 100 m						
0	Α	○В	\circ c	O D						
o 98)	B) The to to to the the D) The the A How wheneat	he current ratio of the current ratio of the charge mov B will the rea h be affect	power dissection of the control of t	ipated betw D e ammeter Q is discon	een the points to een the points to een the points to A of the figure					
			ins is main		e identical). The constant value:					
	B) The C) The	reading wi	ll not be aff ll be double	ed to one-ha ected of previous	s one					
	A	○В	\circ c	O D						
99)	V are c The cu A) In 3 B) In 70	onnected in rrent: 5 W bulb is 0 W bulb is 0 B	n parallel a	C) Is same in D) None of						
100				erence of a mf of cell): C) Zero E	cell when open					
	B) $\frac{E}{2}$			D) $\frac{E}{3}$						
0	Α	○ B	ОС	O D						

101) The emf of a cell is 6.0 V. When it is short circuited, the current of 3 A flows. The internal resistance of cell is:

A) 0.25 Ω

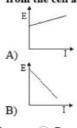
C) 2.0 \O

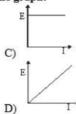
- B) 0.50 Ω
- D) 1.0 Ω

O A

OA

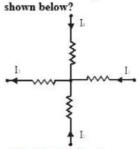
- B
- O C
- O D
- 102) A battery has an emf of 24 V and an internal resistance of 2.5 Ω . When an external 5.5 Ω resistor is connected across the terminals of the battery, the potential difference between the terminals will be:
 - A) 22.5 V
- C) 13.5 V D) 16.5 V
- B) 18.5 V
 - B O C
- OD
- The emf "E" of a cell varies with the current drawn from the cell according to the graph:





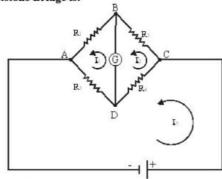
A

- B
- O C
- O D
- Which of following is correct expression for figure



- A) $I_1 + I_2 I_3 I_4 = 0$
- B) $I_1 I_3 I_2 + I_4 = 0$

- ○B ○C
- The KVL equation for loop ABDA in the following 105) Wheatstone Bridge is:



- A) $-I_1R_1 (I_1 I_2)R_g I_1R_3 = 0$
- B) $-I_1R_1 (I_2 I_1)R_g I_3R_3 = 0$
- C) $-I_1R_1 (I_1 I_2)R_g (I_1 I_3)R_3 = 0$
- D) None of these
- O A
- \bigcirc B
- O C
- O D
- Conventionally speaking the current flowing towards 106) a point is taken as _____ and the voltage of a battery in which current is traversed from high to low potential is taken as
 - A) Positive, positive
- C) Negative, Positive
- B) Positive, negative
- D) Negative, Negative

- O A
- B
- O C
- \bigcirc D

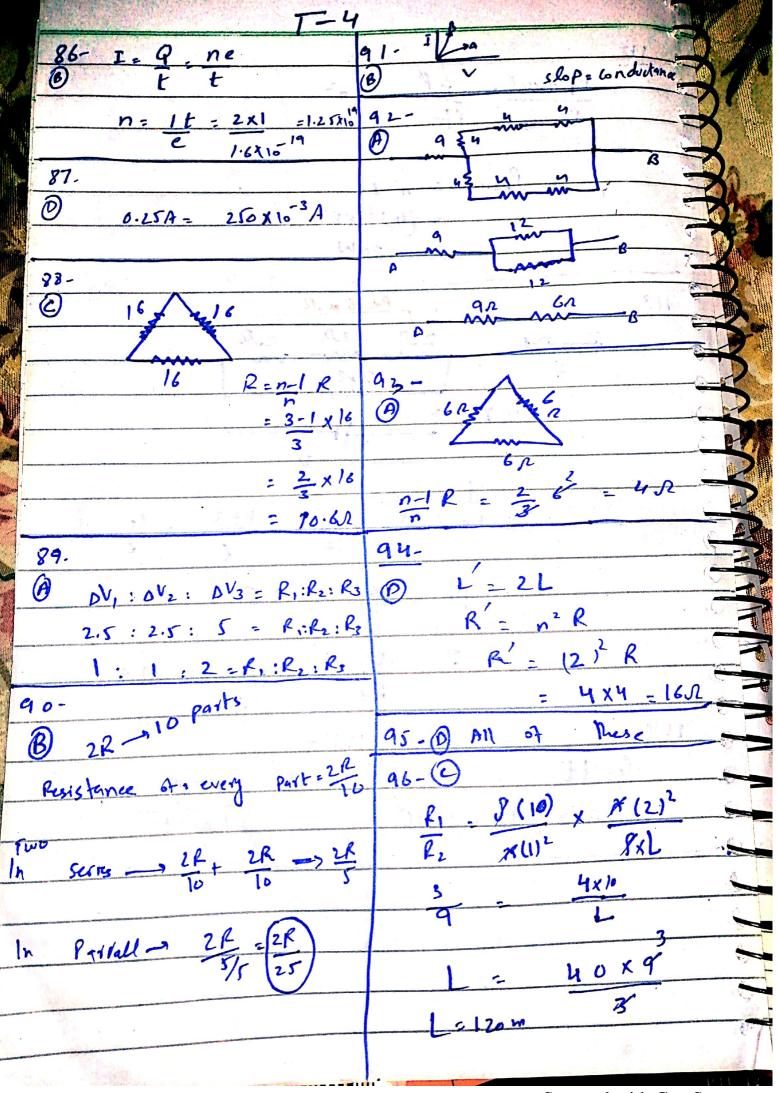
107)	"The	sum of all	the curre	nts meeting at a p	oint in the		
10//	circui	it is zero",	is a staten	nent of:			
	A) K(C) Ohm's law			
	B) KV	VL		D) Wheatstone	Bridge		
0	A	○В	○ c	O D			
108)	times filam	s more t	han the will be th	ingsten filament resistance of co e resistance of 100	ld tungsten		
	A) 40			C) 400 Ω			
	B) 20			D) 200 Ω			
0		ОВ	ОС	OD			
109)		's Law is v	alid when	the temperature	of the		
		onstant		C) Very high			
		ry low		D) Changing			
0	Α	ОВ	\circ c	O D			
110)		A		f 10 V is applie e current in the co C) 2.5 A D) 3.0 A			
				one glows bright			
		er. Which ht bulb	of the two	has larger resista C) Both have same			
	B) Dim			D) Brightness doe		on resistance	
•	, -, 1111			_ / _ / / / / / / / / / / / / / _ / / / / / / / / / / / / / _ / / / / / / / / / / / / / _ / / / / / / / / / / / / / _ / / / / / / / / / / / / / _ / / / / / / / / / / / / / _ / _ / _ / / / / / / / / / / / / / _	depend		
0	A	○В	\circ c	O D			
	文	r ¹ 1.50	**************************************	2			
	A) 1 A	<u> </u>		C) 4 A			
	B) 2 A			D) 6 A			
0	A	ОВ	\circ c	O D			
115)	resista A) 24	cted to a u	niform wi	e 2 Ω and emf 10 or re of length 500 cr ial gradient in wir C) 12 mV/cm D) 4 mV/cm	n and		
0	A	ОВ	○ C	\bigcirc D			
114)	other except A) $\frac{1}{4}R$	wire of an t for twice	identical	C) 4 R			
	B) 2 R	2		D) Same as R			
0	Α	ОВ	\circ c	O D			
115)	A) Inc		tivity and	nductor is increase conductivity: C) Decreases D) May increase			
0	A	○В	\circ c	O D			
	PREV	IOUS	X	FINISH TEST		NEXT	

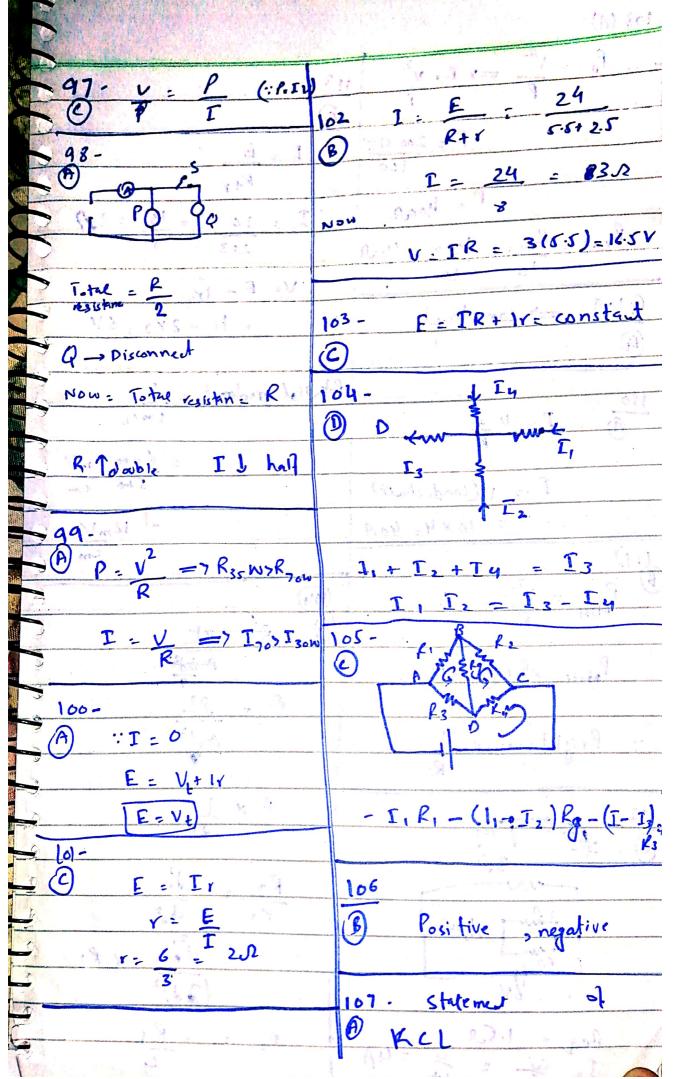
116)	the word that best fits	in with the mea	ning of the se	ating that something has been omitted. Choose entence as a whole. e gigantic mall, he felt as though she was in a
	A) Palpitation B) Labyrinth			C) Reflex D) Variations
0	A	○ c	O D	
117)	mad dog, was similar A) Exacerbated		two months l	cater a shepherd, who had been bitten by a
0	B) Marred A	ОС	O D	D) Cured
118)	The culpable child delinquency. A) Mumbled B) Reserved		_ some wo	crds to her mother for pardoning his C) Preserved D) Exaggerated
0	A	\circ c	O D	
119)	There was no use A) Suspected B) Inquired	of Mr. Hub	ert's prote	esting, for nobodyhim. C) Believed D) Entailed
0	A	ОС	O D	
120)	She was feeling A) Groggy B) Haggard		after five	hours of surgery. C) Pally D) Grope
0	A OB	ОС	OD	D) Glope
	That is just an ex A) With B) To	ample of wl	hat I comp	C) Off D) Of
22)	The parents were st A) Knack B) Groggy	unned when th	ey saw that o	children had created in the bedroom. C) Dank D) Mayhem
0	A	ОС	\bigcirc D	
23)	Chips found him A) Resuscitated B) Orientated	uself the		instead of the rescuer. C) Rescued D) Hailed
0	А ОВ	ОС	\bigcirc D	
24)	They sometimes A) Yearning B) Yapping	s feel a	for	r the mountains and the sea. C) Yelling D) Yielding
0	А ОВ	○ c	\bigcirc D	
l 2 5)	Wetherby himself v chap, for he died du A) Efficient B) Intensify	was very father	rly and court er vacation.	teous; he must have beenthen, poor C) III D) Genial
				₩
0	A	\circ c	\bigcirc D	
				about hitting the students. C) Quarrel D) Quotation

1271			d the class, it w	as obvious	his long hours of studying were in
12/)	A) Ve				C) Wan
	B) V				D) Wane
0	A	○ B	\circ c	\bigcirc D	
100	The	accident ha	ppened due t	o the driv	er's .
128)		Negligence			C) Regret
		Reluctance			D) Nuisance
	Α	ОВ	O C	OD	
129)	He w		lete when he car	me by his w	ild ideaabout the age of sixteen. C) At
,	B) Or				D) For
			0.0	O D	
0	Α	ОВ	\circ c	(D	
130	I_		caution in ir	terpreting	g these results.
130,	/	Urge			C) Usurp
	B)	Usher			D) Uproot
0	A	○ B	O C	OD	
			_		
	•				
131)	A) Sta		sun was setting,	some travele	ersto rest under a clump of trees C) Queued
		needled			D) Stipulated
	Α	ОВ	ОС	\bigcirc D	
		0 0		00	
	May	he we can	the car de		i-tith
132)			the car da	mage by re	painting the scratched area.
132)	A) E	xaggerate	the car da	mage by re	C) Stipulate
132)	A) E B) D	xaggerate		0 -	
1 32)	A) E	xaggerate	the car da	D	C) Stipulate
1 32)	A) E B) D	xaggerate		0 -	C) Stipulate
0	A) E B) D A	xaggerate bisguise B ally, too, his ha	○ c	O D	C) Stipulate
132) 0 133)	A) E B) D A Actu	xaggerate bisguise B ally, too, his ha	○ c	O D	C) Stipulate D) Divulge s; yet now, for the first time, people seemed
0	A) E B) D A Actu to A) D	xaggerate bisguise B ally, too, his ha	○ c	O D	C) Stipulate D) Divulge
0	A) E B) D A Actu to A) D B) O	xaggerate risguise B ally, too, his ha it. ebilitate verlook	○ C uir had been gray	O D	C) Stipulate D) Divulge s; yet now, for the first time, people seemed C) Notice
0	A) E B) D A Actu to A) D	xaggerate bisguise B ally, too, his ha it. ebilitate	○ c	O D	C) Stipulate D) Divulge s; yet now, for the first time, people seemed C) Notice
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133)	A) E B) D A Actu to_ A) D B) O A	xaggerate bisguise B ally, too, his ha it. ebilitate verlook B e volcano in	○ C nir had been gray ○ C	D D	C) Stipulate D) Divulge s; yet now, for the first time, people seemed C) Notice D) Snub
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N D	65	<u>C</u>	1.75	C	25	B	
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83 C	93	A	103	- A		
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118 A	123 C		128	A	133	C
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120 A	125 C		130	A	135	D
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			Si .	A. C.		
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108 (A)	
$\frac{P_a : V^2}{R} = 1 R \cdot V^2$	113
R = 200 X200	E E
100	R+Y
R = 400r	I = 10 = 16 = 2A
Roy : Prot = 400 Har	213
10 10	Vz F - IY
Q109 => constant	= 10-2x2=6V
<u> </u>	The second of th
110	Pokutial gradient = 6
B I. VI	(so cm
	= 6000 mV
I - V (conductance)	
= 10×4= 40A	= 12mV
B P = v2	
Diusi R	(14) A B' Pl
P .0 .11	A Cold
Poisse & Brightness	R . PL
-: Brightness & 1	rd2
R	
112.	f &
0 1	42
	R2 ali
2-M 1.502	R1 d,2
61	$= d^2 \times R^2$
6V	12112
Reg = 1.50 , X	0 0
Te 2 = 4A	L Car
ted borre Billian Billian	

