EAMCET-2011 MEDICAL-BOTANY

1.	Identify the cor	rect ratios of the following, r	related to Bentham and Hoo	ker's classification of plants
	A) Number of	series in Dicotyledonae and 1	monocotyledonae	
	B) Number of	classes and sub-classes		
	<u>A</u>	<u>B</u>		
	1) 1:1	1:3		
	2) 1:1	1:1		
	3) 2:1	1:1		
	4) 1:1	1:2		
2.	The ratio of ch	romosomal number of poller	n grain of Nicotiana tabacu	m; endosperm cell of Oryza
	sativa and root	cell of Allium cepa is		
	1) 3:9:2	2) 4:7:6	3) 6:9:4	4) 3:8:2
3.	A DNA fragmen	nt of 204 A ⁰ was separated by	y a scientist from the nuclea	ar genome of the plant. What
	will be the ratio	between the number of two a	and three hydrogen bonds for	med in the components of this
	fragment if it co	ontains 40% Adenine ?		
	1) 4:1	2) 1:4	3) 2:3	4) 1:3
4.	Identify wrong	pair of statements from the f	following.	
	I) Cell organel	les are newly formed in 'G2'	phase of cell cycle	
	II) Doubling of	chromosomes occur in 'S' ph	nase of cell cycle	
	III) The nuclei	formed after meiosis-I are ha	aploid	
	IV) Terminaliza	ation occurs in Anaphase–I		
	1) III, IV	2) I, III	3) I, IV	4) II, IV
5.	The correct ord	ler of plants which exhibits la	aticiferous cells and lysigeno	ous cavities respectively is
	1) Ficus, Carica	2) Nerium, Citrus	3) Hevea, Pinus	4) Citrus, Pothos
6.	Study the follow	ving combinations and identif	fy the correct matches.	
	I) Linear grow	th – Intercalary meristem – 1	Leaf base of grass plant	
	II) Aerenchyma	a – Buoyancy – Bryophyllum		
	III) Trichosclere	eids – Isodiametric in shape	- Aerial roots of Monstera	
	IV) Water stom	nata – Guttation – Root press	sure	
	The correct ans	swer is		
	1) I, IV	2) I, III	3) II, III	4) II, IV
7.	Identify the foll	owing plants with reference t	to the number of phloem str	ands in their roots
	A) Nicotiana	B) Castanea	C) Ricinus	D) Gossypium
	<u>A</u> <u>B</u>	<u>C</u> <u>D</u>	<u>A</u> <u>B</u>	<u>C</u> <u>D</u>
	1) 5 1	2 8	2) 8 5	4 2
	3) 2 8	5 4	4) 4 2	8 5
8.	ŕ	nt having both spongy petiol	•	ry roots
	1) Tinospora	2) Trapa	3) Typha	4) Eichhornia

Calotropis p tal number of 237 udy the follow st – I	I eved 31 Qu lants each f leaves of	with 11 no	D IV IV lants each with andes. All these pents put together	II) M III) IV) V) A 2) V 4) I 36 nod olants of	Food for a Medicinal Fibre yie Petro-pla Biofertilia / I	lding plant ant zer <u>B</u> IV IV biscus plan	C III I ts each wit	
Arnica Jatropha Chlorella Boehmeria A B I II V student obser Calotropis p tal number of 237 udy the followst – I	I eved 31 Qu lants each f leaves of	II I disqualis p with 11 no these plan	IV IV lants each with todes. All these p	I) H II) M III) IV) V) = A 2) V 4) I 36 nod olants of	Food for a Medicinal Fibre yie Petro-pla Biofertilia / I	plant Iding plant ant zer B IV IV biscus plan	C III I ts each wit	II III th 21 nodes and
Jatropha Chlorella Boehmeria A B I II V student obser Calotropis p tal number of 237 udy the follow st - I	I eved 31 Qu lants each f leaves of	II I disqualis p with 11 no these plan	IV IV lants each with todes. All these p	II) M III) IV) V) A 2) V 4) I 36 nod olants of	Medicinal Fibre yie Petro-pla Biofertilia / I	plant Iding plant ant zer B IV IV biscus plan	C III I ts each wit	II III th 21 nodes and
Chlorella Boehmeria A B I II II V student observatal number of 237 udy the followst – I	I eved 31 Qu lants each f leaves of	II I disqualis p with 11 no these plan	IV IV lants each with todes. All these p	III) IV) V) A 2) V 4) I 36 nod clants of	Fibre yie Petro-pla Biofertilia / I les, 15 Hi	lding plant ant zer <u>B</u> IV IV biscus plan	C III I ts each wit	II III th 21 nodes and
Boehmeria A B I II V Student observated to be performed by the following st - I	I eved 31 Qu lants each f leaves of	II I disqualis p with 11 no these plan	IV IV lants each with todes. All these p	IV) V) A 2) V 4) I 36 nod olants o	Petro-pla Biofertilia / I les, 15 Hi	ant zer B IV IV biscus plan	C III I ts each wit	II III th 21 nodes and
A B I II II V student obser Calotropis p tal number of 237 udy the follow st - I	I eved 31 Qu lants each f leaves of	II I disqualis p with 11 no these plan	IV IV lants each with todes. All these p	V) A 2) V 4) I 36 nod blants of	Biofertiliz	zer <u>B</u> IV IV biscus plan	III I ts each wit	II III th 21 nodes and
I II II V student obser Calotropis p tal number of 237 udy the follow st - I	I eved 31 Qu lants each f leaves of	II I disqualis p with 11 no these plan	IV IV lants each with todes. All these p	2) V 4) I 36 nod	\ / I les, 15 Hi	B IV IV biscus plan	III I ts each wit	II III th 21 nodes and
I II II V student obser Calotropis p tal number of 237 udy the follow st - I	I eved 31 Qu lants each f leaves of	II I disqualis p with 11 no these plan	IV IV lants each with todes. All these p	2) V 4) I 36 nod lants o	/ I les, 15 Hi	IV IV biscus plan	III I ts each wit	II III th 21 nodes and
II V student observation Calotropis p tal number of 237 udy the followst – I	eved 31 Qu lants each f leaves of	I disqualis p with 11 no these plan	IV lants each with a odes. All these p	4) I 36 nod lants	I les, 15 Hi	IV biscus plan	I ts each wit	III th 21 nodes and
student observations of the contract of the co	eved 31 Qualants each	isqualis p with 11 no these plan	lants each with a	36 nod	les, 15 Hi	biscus plan	ts each wit	th 21 nodes and
Calotropis p tal number of 237 udy the follow st – I	lants each	with 11 no	odes. All these p	lants	•	-		
tal number of 237 udy the followst – I	f leaves of	these plan	_				- J	
237 udy the follov st – I		-	res been soderrer	•				
udy the followst – I		_,		3) 2	2593		4) 1585	
st – I				-, -			,, =====	
				List	– II			
Leaflets mo	dified into	spines						
		- <u>F</u>						
-	•			ŕ				
						n		
A B		C	D	ŕ			C	<u>D</u>
II I						V	III	I
	I	II	IV			II	I	III
entify two co	rrect state	ments fro	m the following	•				
·			· ·		a flower	like inflore	escence in	Poinsettia
· ·			-					
() In Ficus, a	fruit like i	inflorescer	nce is present wi	ith all	fertile flo	owers		
The floral a	axis is sym	podial in	Hamelia					
II, III	•	2) I, III		3) I	I, IV		4) I, IV	
om among th	ne followin	g, identify	the correct or	ler of	plants w	hich exhibi	t hypogyno	ous, perigynous
d epigynous	flowers re	spectively						
Physalis, Se	sbania, Tri	idax		II)	Lathyrus	, Tagetus, S	Smilax	
I) Tephrosia,	Lathyrus,	Tridax		IV)	Abutilon,	Lathyrus,	Tagetus	
II, III		2) I, IV		3) I	, III		4) II, IV	
nirty seeds ea	ch of Dolic	chos, Pisui	m and Maize ar	e kept	for germ	ination in	the soil. H	Iow many coty
lons are foun	d above th	ne soil and	l below the soil	respec	ctively wh	en all the s	seeds germ	inate ?
90, 90		2) 30, 60		3) 6	50, 60		4) 60, 90)
	Leaflets mo Succulent le Whorled pl Epiphyllous A B II I V II entify two co A single mal Sessile or su I) In Ficus, a II, III om among the d epigynous Physalis, Se I) Tephrosia, II, III airty seeds ea lons are foun	Leaflets modified into Succulent leaves Whorled phyllotaxy Epiphyllous buds A B II I V III entify two correct state A single male and a feromorphyllous affect of Sessile or subsessile flowers affect of the following of the following depigynous flowers rephysalis, Sesbania, Transport of Tephrosia, Lathyrus, II, III sirty seeds each of Dolications are found above the	Leaflets modified into spines Succulent leaves Whorled phyllotaxy Epiphyllous buds A B C II I III V III II entify two correct statements from A single male and a few female Sessile or subsessile flowers form In Ficus, a fruit like inflorescent In The floral axis is sympodial in II, III 2) I, III om among the following, identify depigynous flowers respectively Physalis, Sesbania, Tridax I) Tephrosia, Lathyrus, Tridax II, III 2) I, IV airty seeds each of Dolichos, Pisuralions are found above the soil and	Leaflets modified into spines Succulent leaves Whorled phyllotaxy Epiphyllous buds A B C D II I III IV V III II IV entify two correct statements from the following A single male and a few female flowers are pressonable or subsessile flowers formed in the axils In Ficus, a fruit like inflorescence is present with the following, identify the correct ord depigynous flowers respectively Physalis, Sesbania, Tridax Tephrosia, Lathyrus, Tridax II, III 2) I, IV carry seeds each of Dolichos, Pisum and Maize are lons are found above the soil and below the soil	Leaflets modified into spines Succulent leaves Whorled phyllotaxy Epiphyllous buds IV) A B C D II I III IV 2) I V III II IV 4) I entify two correct statements from the following. A single male and a few female flowers are present in Sessile or subsessile flowers formed in the axils of lead in Ficus, a fruit like inflorescence is present with all in III III III III III III III III III	Leaflets modified into spines Leaflets modified into spines I) Trillium Succulent leaves Whorled phyllotaxy Epiphyllous buds IV) Ulex V) Colchicum A B C D A II I III IV 2) II V III II IV 4) IV entify two correct statements from the following. A single male and a few female flowers are present in a flower Sessile or subsessile flowers formed in the axils of leaves are colon in Ficus, a fruit like inflorescence is present with all fertile flow in the following. In Ficus, a fruit like inflorescence is present with all fertile flow in the flower in the following in Hamelia II, III 2) I, III 3) II, IV om among the following, identify the correct order of plants with the depigynous flowers respectively Physalis, Sesbania, Tridax II) Lathyrus Tephrosia, Lathyrus, Tridax IV) Abutilon, II, III 2) I, IV 3) I, III dirty seeds each of Dolichos, Pisum and Maize are kept for germ thous are found above the soil and below the soil respectively when	Leaflets modified into spines Leaflets modified into spines I) Trillium Succulent leaves Whorled phyllotaxy Epiphyllous buds IV) Ulex V) Colchicum A B C D A B II I III IV 2) II V V III II IV 4) IV II entify two correct statements from the following. A single male and a few female flowers are present in a flower like inflorescessile or subsessile flowers formed in the axils of leaves are crowded at a color in Ficus, a fruit like inflorescence is present with all fertile flowers The floral axis is sympodial in Hamelia II, III 2) I, III 3) II, IV om among the following, identify the correct order of plants which exhibited epigynous flowers respectively Physalis, Sesbania, Tridax II) Lathyrus, Tagetus, Section of the proposition of the policy of the proposition of the policy of the proposition of the policy of the pol	Leaflets modified into spines Leaflets modified into spines I) Trillium Succulent leaves II) Yucca Whorled phyllotaxy III) Scilla Epiphyllous buds IV) Ulex V) Colchicum A B C D A B C II I III IV 2) II V III V III II IV 4) IV II I entify two correct statements from the following. A single male and a few female flowers are present in a flower like inflorescence in Sessile or subsessile flowers formed in the axils of leaves are crowded at the nodes in the flowers are present with all fertile flowers In Ficus, a fruit like inflorescence is present with all fertile flowers The floral axis is sympodial in Hamelia II, III 2) I, III 3) II, IV 4) I, IV om among the following, identify the correct order of plants which exhibit hypogyned depigynous flowers respectively Physalis, Sesbania, Tridax II) Lathyrus, Tagetus, Smilax To Tephrosia, Lathyrus, Tridax IV) Abutilon, Lathyrus, Tagetus II, III 2) I, IV 3) I, III 4) II, IV dirty seeds each of Dolichos, Pisum and Maize are kept for germination in the soil. Endows are found above the soil and below the soil respectively when all the seeds germanic in the soil respectively when all the seeds germanic in the soil respectively when all the seeds germanic in the soil.

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15.	Identify t	the correct p	air of stat	ements.				
	I) The fi	liform appar	atus helps	in absorption	of food			
	II) Antipo	odals are the	e vegetativ	e cells of femal	le gametophyte			
	III) The f	fusion of two	polar nuc	elei occurs alwa	nys before the entry	of pollen tul	Эе	
	IV) The l	largest cell of	f embryosa	ac is the egg ce	11			
	The corre	ect pair is						
	1) I, IV		2) III,	IV	3) I, II	4) II, III	
16.	A studen	t observed a	plant wit	h stellate hairs	on vegetative part	ts and the fru	uit dehiscing	into many
	seeded m	ericarps. W	hich one o	f the following	characters is also	associated wit	th that plant	?
	1) 3 – 10) bracteoles f	orming a v	horl on the cal	yx			
	2) Two c	carpels in the	gynoecium	of a flower				
	3) Failure	e of the germ	nination of	pollen grains or	n the stigma of the s	same flower		
	4) Preser	nce of monos	siphonous p	ollen grains				
17.	Of the fo	ur plants (A	, B, C and	D) observed,	A' was selected by	Mendel for h	is hybridizat	tion experi-
	ments, wh	nile in 'B', sh	ull found i	nbreeding depr	ession and it is a da	y neutral plai	nt. In 'C' Hu	go de Vries
	discovere	d mutations.	'D' has b	icollateral vasc	ular bundles and st	raight embry	os. Identify	the charac-
	ters of –	A, B, C and	D in corre	ct order.				
	The corre	<u>ect order is</u>						
	1) Piston	mechanism,	Eustele, N	Monocarpellary	gynoecium, Swoller	n placenta		
	2) Mona	delphous star	mens, still	roofs, Bicarpel	lary gynoecium, uni	locular ovary		
	3) Pulvir	nus leaf base,	Kranz ana	atomy, Tricarpe	llary gynoecium, Se	pticidal capsu	le	
	4) Foliac	ceous stipules	s, Scutellun	n, Tetracarpella	ry gynoecium, Septi	fragal capsule	;	
18.	Which of	the followin	g disease i	s caused by a f	Cungus ?			
	1) Exoco	ortosis of Citr	us		2) Crown gal	ll of pear		
		ving disease	-		4) Root rot o			
19.	_		oduced from	m one of the fo	ollowing microbes is		nionine	
	,	iella salina			2) Scenedesi			
	_	ina maxima			4) Methylop	hilus methylo	trophus	
20.	•	e following lis	sts.					
	<u>List – I</u>				<u>List – II</u>			
	A) Embr	-			I) Environm	_)	
	B) Gene	_	_		II) Molecular	_		
		sgenic micro	bes		III) Super we			
	D) Biore	eactors			IV) Artificial			
		_	~	_	V) Somaclor			
	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>A</u>	<u>B</u> <u>C</u>		
	1) V	III	II	IV	2) V	III I		
21	3) III	IV	I	II	4) I		II II	14 * 19
21.				_	ny showing maximu			
	I) AAbb1) I IV	х аавв	11) AA 2) I I	Abb x aabb	III) aaBB x		V) AABB x	aabb
	11 I IV		/1 I I	ı	3) [[[][Δ	. 1 I I I I V	

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22.	List – I	following l	пятя.		<u>List – II</u>				
	A) Sesqu	iiternene			I) Low nie	cotine in 1	obacco		
	B) Diter	_			ŕ		tuber sprou	tino	
		ine compou	nd		_		on stem cut	_	
	*	e compound			•		ers in Cann	C	
	D) IIIdoi	c compound					ife of flower		
	<u>A</u>	<u>B</u>	<u>C</u>	$\underline{\mathbf{D}}$	() Elman <u>A</u>	B	<u>C</u>	<u>D</u>	
	1) III	<u>. </u>	<u>u</u> II	v V	2) III	II	v V	IV	
	3) II	IV	V	· III	4) I	IV	· III	V	
23.	· ·				tify the pairs whic				nence oi
			J	,	atal movement res		opp		uciice oi
	I) IAA	, 50	II) G		III) Zeatii	_	IV) A	BA V)	C_2H_4
	•	' ; I – V ; III		-3	2) III – V :			,	24
		' ; II – III ; I			4) III – V :				
24.	•			isense strand	of DNA which is			that spe	cifies the
			01100 011 W 110		01 21 (11 (111011 15	VI WIID VI IN		· ····································	
	анино ас	ia serine is							
		id serine is	2) CC	C	3) TCA		4) AG	U	
25.	1) TAC		2) CC		3) TCA	f isocitric	4) AG		nore ATI
25.	1) TAC Assertion	(A) : Redu	uced Coenz	yme formed	in the oxidation o		acid accou	nts for n	
25.	1) TAC Assertion production	(A) : Redu	uced Coenz	yme formed t than the red	in the oxidation o	rmed in s	acid accou	nts for n l oxidatio	n.
25.	1) TAC Assertion production Reason	(A) : Redu on in electro (R) : In th	uced Coenz on transport e reoxidatio	yme formed t than the rec on of mitocho	in the oxidation o duced coenzyme fo ondrial NADH, the	ormed in s	acid accou succinic acid of protons	nts for n l oxidatio transloca	n. ted fron
25.	1) TAC Assertion production Reason matrix to	(A): Reduction in electron (R): In the intermember	uced Coenz on transport e reoxidation orane space	yme formed t than the rec on of mitocho	in the oxidation o	ormed in s	acid accou succinic acid of protons	nts for n l oxidatio transloca	n. ted fron
25.	1) TAC Assertion production Reason matrix to 1) A is fa	(A): Reduction in electron (R): In the intermembalse but R is	on transport e reoxidation orane space true	yme formed t than the rec on of mitocho is less than t	in the oxidation of duced coenzyme for ondrial NADH, the che protons translo	ormed in s	acid accou succinic acid of protons	nts for n l oxidatio transloca	n. ted fron
25.	1) TAC Assertion production Reason matrix to 1) A is face 2) Both A	(A): Reduction in electron (R): In the intermembalse but R is A and R are	on transporte reoxidation orane space true true and R	yme formed t than the reconnection on of mitoches is less than t	in the oxidation of A	ormed in s e number ocated who	acid accou succinic acid of protons	nts for n l oxidatio transloca	n. ted fron
25.	1) TAC Assertion production Reason matrix to 1) A is fa 2) Both A 3) Both A	(A): Reduction in electron (R): In the intermember is the intermember in the intermed in the	on transport e reoxidation orane space true true and R true but R i	yme formed t than the reconnection on of mitoches is less than t	in the oxidation of duced coenzyme for ondrial NADH, the che protons translo	ormed in s e number ocated who	acid accou succinic acid of protons	nts for n l oxidatio transloca	n. ted fron
	1) TAC Assertion production Reason matrix to 1) A is fa 2) Both A 3) Both A 4) A is tr	(A): Reduction in electron (R): In the intermember is and R are A and R are use but R is the intermediate in the intermediate	on transporter reoxidation or and space true true and R in true but R in false	yme formed t than the rec on of mitocho is less than t is the correct s not the corre	in the oxidation of A ect explanation of A	ormed in see number ocated who	acid accou succinic acid of protons en FADH ₂ is	nts for n l oxidatio transloca s oxidized	n. ted fron
25. 26.	1) TAC Assertion production Reason matrix to 1) A is fa 2) Both A 3) Both A 4) A is tr The num	(A): Reduction in electron (R): In the intermembers of ATP	on transporte reoxidation or and space true true and R in true but R in false required in	yme formed t than the rec on of mitocho is less than t is the correct s not the corre excess to ass	in the oxidation of A imilate atmospherical mation of A	ormed in see number ocated who	acid accou succinic acid of protons en FADH ₂ is	nts for n l oxidatio transloca s oxidized	n. ted fron
	1) TAC Assertion production Reason matrix to 1) A is fa 2) Both A 3) Both A 4) A is tr The num phates in	(A): Reduction in electron (R): In the intermembers of ATP	on transporte reoxidation or and space true true and R true but R is false required in as compared	yme formed t than the rec on of mitocho is less than t is the correct s not the corre	in the oxidation of duced coenzyme for ondrial NADH, the che protons translot explanation of A ect explanation of A imilate atmosphericis	ormed in see number ocated who	acid account acid of protons on FADH ₂ is	nts for n l oxidatio transloca s oxidized	n. ted fron
26.	1) TAC Assertion production Reason matrix to 1) A is fa 2) Both A 3) Both A 4) A is tr The num phates in 1) 60	(A): Reduction in electron (R): In the intermembers of ATP C ₄ plants a	on transporte reoxidation or and space true true and R true but R is false required in as compared 2) 24	yme formed t than the rec on of mitoche is less than t is the correct s not the corre excess to ass to C ₃ plants	in the oxidation of duced coenzyme for ondrial NADH, the che protons translot explanation of A ect explanation of A imilate atmospheric is	ormed in see number ocated who	acid account acid of protons en FADH ₂ is four molecut	nts for n l oxidatio transloca s oxidized	n. ted from i.
26.	1) TAC Assertion production Reason matrix to 1) A is fa 2) Both A 3) Both A 4) A is tr The num phates in 1) 60 If 8 mole	(A): Reduction in electron (R): In the intermembers of Arrest and R are use but R is the ber of ATP C ₄ plants are cules of Rib	on transporte reoxidation rane space true true and R it true but R it false required in as compared 2) 24 oulose 1, 5 –	yme formed t than the rec on of mitoche is less than t is the correct s not the corre excess to ass to C ₃ plants bisphosphate	in the oxidation of duced coenzyme for ondrial NADH, the che protons translorexplanation of A ect explanation of A imilate atmospheric is 3) 30 emolecules are oxymetric oxymet	ormed in see number ocated who have been decided who have been decided by the control of the con	acid account account acid account	nts for many stranslocations oxidized the of tries of the one of the original original of the original ori	n. ted from i.
26.	1) TAC Assertion production Reason matrix to 1) A is fa 2) Both A 3) Both A 4) A is tr The num phates in 1) 60 If 8 molecules	(A): Reduction in electron (R): In the intermembers of Arresponding and R are use but R is the ber of ATP C ₄ plants are cules of Ribers of Ribe	on transport e reoxidation orane space true true and R true but R i false required in as compared 2) 24 oulose 1, 5 — ately availab	yme formed t than the rec on of mitoche is less than t is the correct s not the corre excess to ass to C ₃ plants bisphosphate	in the oxidation of duced coenzyme for ondrial NADH, the che protons translored explanation of A ect explanation of A imilate atmospheric is 3) 30 emolecules are oxympted in photosynthes.	ormed in see number ocated who have been decided who have been decided by the control of the con	acid account account acid account	nts for many stranslocations oxidized the of tries of the one of the original original of the original ori	n. ted from i.
26. 27.	1) TAC Assertion production Reason matrix to 1) A is fa 2) Both A 3) Both A 4) A is tr The num phates in 1) 60 If 8 molecules 1) 24	(A): Reduction in electron in electron (R): In the intermember of A and R are use but R is the ber of ATP C ₄ plants a cules of Riber are ultimates.	on transport e reoxidation orane space true true and R true but R i false required in as compared 2) 24 fullose 1, 5 – ately availab 2) 8	yme formed t than the rec on of mitocho is less than t is the correct s not the corre excess to ass to C ₃ plants bisphosphate ole to PCR cy	in the oxidation of duced coenzyme for ondrial NADH, the che protons translor explanation of A ect explanation of A imilate atmospheric is 3) 30 emolecules are oxympted in photosynthem (3) 12	ormed in secondary number ocated who do not be considered who do not be considered to the constant of the cons	acid accouracion accouracion acid acid accouracion acid acid accouracion acid acid acid acid acid acid acid acid	nts for n l oxidatio transloca s oxidized lles of tri	n. ted from l. ose phos
26. 27.	1) TAC Assertion production Reason matrix to 1) A is fa 2) Both A 3) Both A 4) A is tr The num phates in 1) 60 If 8 molecules 1) 24 A student	(A): Reduction in electron (R): In the intermember of A and R are use but R is the ber of ATP C ₄ plants a cules of Rib are ultimate that taken is the context of the con	true and R true but R i false required in s compared 2) 24 sulose 1, 5 – ately availab 2) 8 6000 molecular in true and R i false	yme formed t than the rec on of mitocho is less than t is the correct s not the corre excess to ass to C ₃ plants bisphosphate ole to PCR cy ales of Fructo	in the oxidation of duced coenzyme for ondrial NADH, the che protons translor explanation of A ect explanation of A imilate atmospheric is 3) 30 e molecules are oxympted in photosynthem (3) 12 ese 1, 6 – bisphospheric is (4)	ormed in secondary number ocated who do not consider the constant of the const	acid account acid of protons on FADH ₂ is four molecuted as a count acid account and account	nts for many cycle?	n. ted from l. ose phos any PGA
26. 27.	1) TAC Assertion production Reason matrix to 1) A is fa 2) Both A 3) Both A 4) A is tr The num phates in 1) 60 If 8 molecules 1) 24 A student enzyme reason	(A): Reduction in electron (R): In the intermember of A and R are use but R is the of ATP C4 plants are ultimated	true and R true but R i false required in s compared 2) 24 sulose 1, 5 – ately availab 2) 8 6000 molecuture to deter	yme formed t than the recon of mitoche is less than t is the correct s not the corre excess to ass to C ₃ plants bisphosphate ble to PCR cy alles of Fructo rmine its activ	in the oxidation of duced coenzyme for ondrial NADH, the che protons translor explanation of A ect explanation of A imilate atmospheric is 3) 30 2 molecules are oxymolecules	ormed in secondary in the cated who do not cated who do not cated by the carbon attention and 2 tes, 50% secondary in the cate and 2 tes, 50% secondary in the cated and 2 tes, 50% seco	acid accouracion acid of protons en FADH ₂ is four molecuted as a substrate was substrate was successful accountable accounta	nts for many cycle? of Aldolas as found of the cycle?	n. ted from l. ose phos any PGA
	1) TAC Assertion production Reason matrix to 1) A is fa 2) Both A 3) Both A 4) A is tr The num phates in 1) 60 If 8 molecules 1) 24 A student enzyme r into production	(A): Reduction in electron (R): In the intermember of A and R are use but R is the of ATP C4 plants are ultimated	true and R true but R i false required in s compared 2) 24 bulose 1, 5 – ately availab 2) 8 6000 molecuture to determine true true to determine true true true true true true true tru	yme formed t than the recon of mitoche is less than t is the correct s not the corre excess to ass to C ₃ plants bisphosphate ble to PCR cy alles of Fructo rmine its activ	in the oxidation of duced coenzyme for ondrial NADH, the che protons translor explanation of A ect explanation of A imilate atmospheric is 3) 30 e molecules are oxympted in photosynthem (3) 12 ese 1, 6 – bisphospheric is (4)	ormed in secondary in the cated who do not cated who do not cated by the carbon attention and 2 tes, 50% secondary in the cate and 2 tes, 50% secondary in the cated and 2 tes, 50% seco	acid accouracion acid of protons en FADH ₂ is four molecuted as a substrate was substrate was successful accountable accounta	nts for many cycle? of Aldolas as found of the cycle?	n. ted from l. ose phos any PGA

29.	Study the	following o	combination	s and identify th	e correct mat	ches related	d to the rol	e of essential	min-		
	eral eleme	ents in plan	ts								
	I) Sulphu	ır – Stabiliz	ation of pr	otein structure							
	II) Mang	anese – Ex	pression of	apical dominance	ee						
	III) Zinc	- Activation	n of IAA ox	xidase							
	IV) Potass	sium – Mai	ntenance of	f anion–cation ba	alance in cells						
	1) I, IV		2) I, I	I	3) I, III		4) II,	IV			
30.	The numb	er of stoma	ta and epid	ermal cells in 1 n	nm² area of ab	axial surfa	ce of the lea	ives of A, B,	C and		
	D plants a	are given b	elow. Ident	ify the plant hav	ing the least s	tomatal ind	lex.				
	<u>Plant</u>		Numb	er of stomata	Number o	of epiderma	<u>l cells</u>				
	A		20		100						
	В		40		160						
	C		50		300						
	D		70		560						
	The corre	ct answer	i <u>s</u>								
	1) D		2) A		3) B		4) C				
31.	Study the	following ta	able showing	g the components	of water poter	ntial of thre	e mesophyl	l cells–A, B a	nd C		
	<u>Cell</u>		<u>Osmot</u>	ic potential	Pressure	<u>potential</u>					
	A		- 0.6		0.2						
	В		- 0.5		0.3						
	C		- 0.9		0.4						
	If the abo	ve cells are	in direct co	ontact with each	other, then the	water mov	ves at the lo	west rate be	tween		
	1) $\mathbf{B} \to \mathbf{A}$	Δ	2) A	\rightarrow C	3) $C \rightarrow E$	3	4) B-	\rightarrow C			
32.	Study the	following l	ists with re	ference to transr	nission of vira	diseases.					
	$\underline{List - I}$				<u>List – II</u>						
	A) Zoosp	ores of fun	gi		I) Rice to	ıngro					
	B) Insect	s			II) Cherry	y ring spot					
	C) Longi	dorus			III) Toba	cco necrosi	S				
	D) Seeds				IV) Soil b	orne viral	disease				
					V) Lettuc	ce mosaic					
	<u>A</u>	<u>B</u>	<u>C</u>	$\underline{\mathbf{D}}$	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>			
	1) III	I	IV	V	2) IV	III	II	V			
	2) III	I	II	IV	4) V	I	IV	III			
	3) III				•						
33.	•	the followin	ng pair is c	orrect ?							
33.	Which of	the followi richia – Gra	- ·	orrect ?	2) Thiom	argarita – A	Acanthurus				

	ly the following	nsts.					
<u>List</u>	<u>– I</u>			<u>List – II</u>			
,	Sex hormone			I) Fertiliza	ation in F	unaria	
B)	Cell wall breaki	ng enzyme		II) Format	ion of zyg	ophores in	Rhizopus
C)	sugary mucilagi	nous substance	2	III) Forma	tion of bu	ds in Funar	ia
D)	Naturally occur	ring growth fa	ctor	IV) Fertiliz	ation in I	Pteris	
				V) Conjug	gation in S	Spirogyra	
<u> 1</u>	<u>A</u> <u>B</u>	<u>C</u>	<u>D</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>
1) I	I IV	I	III	2) II	V	I	III
3) V	/ II	IV	III	4) V	IV	III	II
. Trac	ce the correct se	quence of stag	es in the dev	elopment of mal	le gameto _l	phyte in Cyc	cas, starting f
mici	rospore						
1) A	Antheridial cell —	\rightarrow Stalk cell \rightarrow T	Tube $\operatorname{cell} \to \operatorname{Ge}$	enerative cell			
2) 1	Antheridial cell-	→ Generative ce	ell → Body cel	$11 \rightarrow Antherozoid$	S		
3) (Generative cell—	\rightarrow Body cell \rightarrow A	Antheridial ce	$ll \rightarrow Antherozoid$	ls		
4)	Tube $\operatorname{cell} \to \operatorname{Anth}$	eridial cell→S	Stalk cell A	ntherozoids			
. A m	ale branch of Fu	ınaria has ten a	antheridia an	d produced a su	m total of	1400 sperma	atozoids. Wha
the 1	number of andro	cyte mother ce	ells in each an	theridium assum	ning each	of the anthei	ridia has the s
num	ber of androcyt	es ?					
1) 9	960	2) 16		3) 70		4) 340	
7. Two	filaments of S ₁	pirogyra aplan	ospora are o	bserved. One	of the fila	ments has	150 cells anot
cont	ains 225 cells. I	f all the cells ir	n both the fila	ments are involv	ved in asex	kual reprodu	iction, what is
ratio	of new filamen	ts developed fi	rom them ?				
1) 1	: 2	2) 2:3		3) 1:1		4) 3:5	5
. Stud	ly the following	statements.					
A) .	A homozygous t	all plant is cro	ssed with hor	nozygous dwarf	plant		
B) A	A heterozygous	tall plant is sel	fed				
C)	A heterozygous	tall plant is cr	ossed with ho	mozygous dwar	f plant		
\mathbf{C}_{j}	A heterozygous	tall plant is cr	ossed with ho	mozygous tall p	lant		
	A HULLIUZYZUUS	-				centage rest	pectively would
D)	• •	ll character ap	pearing in the	e progenies in te			
D)	probability of ta	-	pearing in the	•	ring or per	•	
D) The	probability of ta	<u>B</u>	pearing in the	<u>C</u>	ims or per	<u>D</u>	, , , , , , , , , , , , , , , , , , , ,
D) The	probability of ta	<u>B</u> 75%	pearing in the	<u>C</u> 50%	ms or per	D 100% s	
D) 1 The	probability of ta A 100%	B 75% 50%	pearing in the	<u>C</u> 50% 75%	inis or per	<u>D</u> 100% s 100%	
D) 1 The 1) 1 2) 1 3) 7	probability of ta A 100% 100%	B 75% 50% 25%	pearing in the	C 50% 75% 100%	ins or per	D 100% s 100% 100%	
D) 1 The 1) 1 2) 1 3) 7 4) 1	probability of ta A 100% 100% 75%	B 75% 50% 25% 100%		© 50% 75% 100% 25%	-	D 100% s 100% 100% 75%	- -
D) 1 1 2) 1 3) 7 4) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	probability of ta A 100% 100% 75% 100% number of F ₂ p	B 75% 50% 25% 100% blants found signal	milar to F ₁ p	© 50% 75% 100% 25% henotype and ge	-	D 100% s 100% 100% 75%	- -
1) 1 2) 1 3) 7 4) 1 9. The plan	probability of ta A 100% 100% 75%	B 75% 50% 25% 100% blants found signal	milar to F ₁ p an dihybrid c	© 50% 75% 100% 25% henotype and ge	-	D 100% s 100% 100% 75%	in a total of

In a hydrophyte, the submerged leaves compensate for the roots. That plant belongs to the category of

2) Submerged suspended hydrophytes

4) Submerged rooted hydrophytes

40.

1) Rooted hydrophytes with floating leaves

3) Free floating hydrophytes

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1)	3	2)	3	3)	1	4)	4	5)	2	6)	1	7)	3	8)	2	9)	4	10)	2
11)	4	12)	3	13)	2	14)	4	15)	3	16)	3	17)	4	18)	4	19)	4	20)	2
21)	1	22)	3	23)	1	24)	3	25)	4	26)	2	27)	3	28)	4	29)	1	30)	1
31)	2	32)	1	33)	4	34)	2	35)	2	36)	3	37)	2	38)	1	39)	4	40)	3

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41.	The t	ype of	associati	on exh	ibited by Hydroa	actinia	and Pag	gurus i	s		
	1) End	lo comi	nensalisr	n 2)	Ecto parasitism		3) Ecto	comn	nensalis	sm	4) Hyperparasitism
42.	In the	blood o	circulatio	on of P	heretima, the blo	ood col	lected by	y latera	al oesop	pha	geal blood vessel flows in
	supra	oesoph	ageal blo	ood ves	ssel through						
	1) Late	eral hea	rts and c	ommis	sural blood vesse	els	2) Late	ral hea	rts and	lan	terior loops
	3) Late	eral oes	ophageal	hearts	and ring vessels		4) Anto	erior lo	ops and	d ri	ng vessels
43.	Conju	gation i	in ciliate	proto	zoans is essential	l for					
	1) Peri	manent	pairing o	of two	individuals		2) Nuc	elear re	organis	satio	on
	3) Ger	nmatior	1				4) Reg	enerati	on of le	ost	body parts
44.	Tassar	silk is	secreted	by							
	1) Phil	losamia	recini				2) Ant	heraea	paphia		
	3) Ant	heraea	assamens	sis			4) Bon	nbyx n	ori		
45.	DNA 1	oolymei	rase for	industr	rial use in Polym	erase (Chain R	eaction	(PCR) is	produced by
	1) The	rmus a	quaticus				2) Stre	ptococ	cus py	oge	nes
	3) Tric	hoderm	na reesi				4) Bac	illus li	chenifo	rmi	s
46.	Match	the fol	llowing								
	<u>List – </u>	<u>I</u>					<u>List – </u>	<u>II</u>			
	A) Aso	ending	limb of	Henle'	s loop		I) Con	centra	tion of	glo	merular filtrate is high
	B) Pro	ximal (convolute	ed tubu	ıle		II) Fac	cultativ	e wate	er r	eabsorption
	C) Co	llecting	tubule				III) In	perme	able to) wa	ater
	D) Dis	tal con	voluted t	ubule			IV) O	oligato	ry wat	er 1	reabsorption
		A	В	C	D		A	В	C		D
	1)	II	IV	III	I	2)	III	I	II		IV
	3)	I	IV	III	II	4)	III	IV	I		II
47.	Which	of the	followin	g state	ments are true a	about p	protosto	nes			
	A) Cle	avage s	spindles	or plai	nes are oblique t	o the p	oolar axi	s of th	e zygot	te	
	B) Cle	avage s	spindles	or plar	es are at right a	angles	to the po	olar ax	is of th	ne z	ygote
	C) The	e fate o	f blastor	neres i	s fixed early in t	he dev	elopmen	ıt			
	D) The	e fate o	f blastor	neres i	s fixed relatively	late in	the de	velopm	ent		
	1) C a	nd D		2)	A and B		3) B aı	nd D			4) A and C
48.	Match	the foll	lowing								
		List	– I				List -	II			
	A)	Cosr	nozoic t	heory		I)	Louis	Paster	ır		
	B)	Biog	enesis tl	neory		II)	Thale	es			
	C)	Theo	ory of sp	ontane	ous generation	III)	Cuvie	er			
	D)	Theo	ory of ca	tastroj	ohism	IV)	Arrh	enius			
						V)	Halda	ane			

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		A	В	C	D		A	В	C	D	
	1)	III	II	IV	I	2)	IV	I	II	III	
	3)	IV	II	I	V	4)	II	IV	V	III	
49.	One of	the fo	llowing	hepatiti	is is no	t transn	nitted p	arentera	lly		
	1) Hep	atitis –	D	2)	Hepatiti	s – A		3) He _j	patitis –	В	4) Hepatitis – C
50.	Dense	irregul	ar conn	ective t	issue is	found i	n				
	1) Bon	e marro	ow and	lymph n	odes						2) Tendons and ligaments
	3) Peri	osteum	and per	ricardiuı	n						4) Vocal cords and trachea
51.	In Con	voluta	the tiss	ue prese	ent bety	ween the	gut an	d body	wall is		
	1) Boti	yoidal	tissue	2)	Mesogl	ea		3) Me	soderm		4) Parenchyma
52.	Flightle	ess biro	d with p	reen gla	and is						
	1) Dro	maius		2)	Tinamu	S		3) Ap	teryx		4) Rhea
53.	Identif	y the c	orrect o	combina	tions						
	Nation	al Parl	<u> </u>	Pla	<u>ice</u>			<u>Anim</u>	al Prote	<u>ected</u>	
	A) Jim	Corbet	t	Ra	jasthan			Tigers	1		
	B) Gir			Gu	jarat			Lions			
	C) Kaz	iranga		As	sam			One -	horned	rhinocer	os
	D) Peri	yar		Utt	arancha	al		Tigers	and el	ephants	
	1) A ar	d D		2) .	A and E	3		3) B a	ind C		4) C and D
54.	In rab	bit the	openin	g of cor	onary s	sinus int	to the le	eft preca	val vein	ı is boun	d by a fold called
	1) Tric	uspid V	alve	2)	Valve o	f Eustac	hain	3) Val	ve of T	hebesius	4) Mitral Valve
55.	In a po	pulatio	on of 50	00, 200	individ	uals exh	ibit a t	rait for	recessiv	e allele 'a	a'. Find out the frequency of
	the do	minant	and red	cessive a	alleles i	n the po	pulatio	n			
	1) 0.68	and 0.	.32	2)	0.6 and	0.4		3) 0.8	and 0.2	2	4) 0.96 and 0.04
56.	Identif	y the h	olocrine	e gland	from t	he follov	ving				
	1) Live	er		2)	Pancrea	as		3) Ma	ımmary	glands	4) Sebaceous glands
57.	Identif	y the s	equence	of step	s involv	ved duri	ng insp	iration i	n rabbi	it	
	A) Vol	ume of	thoraci	ic cavity	y increa	ases					
	B) Cor	tractio	on of ex	ternal i	ntercos	tal muse	cles mo	ves the	rib cag	e forwar	d
	C) Dia	phragn	n becon	nes flat							
	D) Tho	racic (cavity ex	xpands	drawin	g air in	to lungs	S			
	1) A _	$\rightarrow B \rightarrow$	$\mathbf{C} \to \mathbf{\Gamma}$	2) 4	$A \rightarrow D$	$\rightarrow B$	\rightarrow C	3) C -	→ B —	$A \rightarrow D$	$0 4) \ C \rightarrow A \rightarrow B \rightarrow D$
58.	In rab	bit the	fungifo	rm papi	llae tha	t contai	in taste	buds ar	e distri	buted	
	1) At t	ne sides	s of the	base of	the ton	gue		2) In	the mar	gin of the	e tongue
	•		er surfa		•			•		of the to	
59.		-	pe of n	nouth p	arts of	insects	in whi	ch the t	wo lab	ella are i	nterconnected by Dutton's
	memb										
	1) Siph	Ū	• •	,			ŕ	_		ving type	
(0	· ·	Ū	d suckii			N. 4 . 1	ŕ	ponging	• 1	.1	2.1
60.			nat most	-							riods without drinking water
	1) Mac	ropus		2) D	ipodon	ıys	3)	Didelhis	j	4)(Ornythorhynchus Page No.2

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	1) Mes	enteror	ı	2) (Sizzard	3)	Crop		4)	Hepatic ca	ecae			
62.	Three	-lobed	diphyco	ercal ta	il is the featur	re of this	fish							
	1) Poly	pterus		2) L	atimeria	3)]	Protopte	erus	4)	Neocertato	dus			
63.	Staten	nent (S)): Nem	atodes	exhibit 'eutely	y '								
	Reaso	n (F	R) : In	nemato	des cell divis	sions cea	se near	the er	nd emb	ryonic dev	elopment so that			
	numb	er of th	ne cells	of the a	dult is consta	nt								
	1) Bot	h (S) an	d (R) ar	e true a	nd (R) is the c	orrect ex	planatio	on (S)						
	2) Onl	y(S) is	true but	t not (R))									
	3) Bot	h (S) an	d (R)ar	e not tru	ie									
	4) Bot	h (S) an	d (R) ar	e trueai	nd (R) is not a	correct e	xplanat	ion to (S	S)					
64.	Identi	fy the	followi	ng stru	ctures which	are pre	esent in	diopti	rical reg	gion of the	ommatidium of			
	cookr	oach				w p wp g								
	1) Len	ticular c	cells, rha	abdome	, rhabdomeres	2) I	Lenticul	ar cells	, vitrella	e, crystallin	e cone			
	3) Vitro	ellae, re	tinulae,	rhabdo	me	2) Lenticular cells, vitrellae, crystalline cone 4) Crystalline cone, retinulae, rhabdome								
65.	The jo	int bet	ween ca	arpal ai	nd metacarpa	ncarpal of thumb in primate mammals is								
	1) Ball	and So	cket joi	nt 2) S	addle joint	3) Pivot joint 4) Hinge joint								
66.	In dia	psid sk	ull of re	eptiles,	the two temp	oral foss	ae are s	eparat	ed by th	ese bones o	ot form the upper			
	tempo	ral bar	•											
	1) Post	t-orbital	l and jug	gal		2) Post-frontal and squamosal								
	3) Post	t-orbital	l and squ	uamosa	1	4) \$	Squamo	sal and	jugal					
67.	In the	the life-cycle of Plasmodium vivax some stages may survive for long periods in liver as dormant												
	stages	known	as											
	1) Spo	rozoites	S	2) N	Ierozoites	3)]	Hypnoz	oites	4)	Cryptozoit	es			
68.	Match	the fol	llowing	with re	eference to the	e insects	and dis	sease						
	List -	I				Lis	st - II							
	a) Aed	les				I) I	Dermat	obiasis						
	b) Cin	nex				II)	Typhoi	id						
	c) Pso	rophor	a			III) Encep	halitis						
	d) Mu	sca				IV)) Buboi	nic plag	gue					
						V)	Break	bone fe	ever					
		<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>		<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>				
	1)	V	IV	I	II	2)	V	IV	II	I				
	3)	III	V	II	IV	4)	IV	V	III	V				
69.	Match	the fol	llowing											
	<u>List - l</u>	<u>[</u>				<u>Lis</u>	st- II							
	A)Car	icer cel	ls			I) I	ONA re	plicatio	n					
	B) Tra	nscript	tional fa	actors		II)	Sachar	omyces	S					
	C) Cy	clins				III) Telom	erase						
	D) Zy	gote				IV) Totipo	tent ce	11					
		<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>		<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>				
	1)	III	IV	П	I	2)	II	I	Ш	IV				
	3)	III	I	II	IV	4)	IV	III	II	I	Page No.3			

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70.	Which of the following			
	A) Diencephalon regul	-		
	B) Cerebral hemisphe	•	,	
	C) Medulla oblongata		y activities	
	D) Cerebellum regulat	-		
	1) B and C	2) A and B	3) A and C	4) C and D
71.	` ′	G	utosomal genes in both n	
				es is different in different sexes,
	dominant in one sex ar	nd recessive in the ot	ther	
	1) Both (S) and (R) are	true and (R) is the cor	rect explanation (S)	
	2) Only (S) is true but n	ot (R)	3) Both (S) and (R) are	e not true
	4) Both (S) and (R) are	trueand (R) is not a co	orrect explanation to (S)	
72.	Vermicompost produc	ed by earthworm co	ontains Nitrogen N and l	Phosphorus P in this ratio.
	1) 10% N and 3.04% P	2) 60% N and 5.04%	6 P 3) 30% N and 2.04%	P 4) 20% N and 1.04% P
73.	The blood group of a v	voman is 'O'. She has	s two brothers; one with	'A' group and the other with 'B'
	group. The genotypes	of her parents are		
	$1)\mathrm{I}^{\mathrm{A}}\mathrm{I}^{\mathrm{B}}\!\!-\!\!\mathrm{I}^{\mathrm{O}}\mathrm{I}^{\mathrm{O}}$	2) I°I°–I ^A I°	$3) I^{A}I^{O} - I^{A}I^{B}$	$4) I^{A}I^{O}-I^{A}I^{O}$
74.	In which of the followi	ng characaters proto	otherians resemble Meta	atherians?
	1) Presence of epipubic	bones, two uteri and J	penis in male	
	2) Presence of abdomina	al testis and chorio-vit	elline placenta	
	3) Presene of single head	ded ribs, megalecithal	eggs and smallest gestati	on period
	4) Presence of degenera	te corpus callossum, s	simple cochlea and absen	ce of ear pinnae
75.	The sites of ATP ase ac	tivity in flagellum/ci	lium are	
	1) Inner sheath		2) Central tubules of a	axoneme
	3) The dynein arms of o	uter doublets of micro	otubules	
	4) Outer protoplasmic sl	neath		
76.	The following are the	parts of male reprod	uctive in rabbit. Arrang	ge them in sequence showing the
	passage of sperms from	n the place of their fo	ormation	
	A) Epididymis	B) Vasa efferentia	C) Vas deferentia	D) Seminiferous tubules
	E) Urethra	F) Rete testis		
	1) $E \rightarrow C \rightarrow A \rightarrow B \rightarrow F$	\rightarrow D	$2) D \rightarrow F \rightarrow B \rightarrow A \rightarrow$	
	3) $D \rightarrow F \rightarrow A \rightarrow B \rightarrow C$		$4)D \mathop{\rightarrow}\limits_{}\!$	$C \rightarrow E$
77.	Pick up the statements		·	
	A) Feminine sexual de	-		
	B) Karyotype is 44XX		C) The male is negat	tive for Barr body
	D) Secondary sexual c		•	
	1) B and D	2)A and B	3) B and C	4) C and D
78.	Match the following			
	<u>List - I</u>		<u>List - II</u>	
	A) Zooplanktons		I) Chironomid larva	
	B) Neustons		II) Daphnia	
	C) Nektons		III) Water spiders	
	D) Benthos		IV) Hydra	D 37 4
				Page No.4

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		<u>A</u>	$\underline{\mathbf{B}}$	<u>C</u>	$\underline{\mathbf{D}}$		<u>A</u>	<u>B</u>	<u>C</u>	$\underline{\mathbf{D}}$	
	1)	III	V	IV	II	2)	II	IV	I	III	
	3)	I	\mathbf{II}	II	IV	4)	II	Ш	IV	I	
79.	Cteno	phores	have tl	ne follov	wing symm	netry					
	1) Bira	dial		2) R	adial	3) \$	Spherica	al	4)	Pentaradial	
80.	Identi	fy the c	orrect	combin	ations with	n reference	to their	larval	forms		
	A) Ho	lothuro	idea	– ph	iopluteus						
	B) Ast	eroidea	ı	– Bi	pinnaria						
	C) Pel	ecypod	a	– Gl	ochidium						
	D) Ce	phalop	oda	-Aı	ıricularia						

3) A and D

4) B and D

2) B and C

1) A and B

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41) 3	42) 4	43) 2	44) 2	45) 1	46) 4	47) 4	48) 2	49) 2	50) 3
51) 4	52) 2	53) 3	54) 3	55) 3	56) 4	57) 3, 4	58) 2	59) 3	60) 2
61) 1	62) 2	63) 1	64) 2	65) 2	66) 3	67) 3	68) 1	69) 3	70) 1
71) 4	72) 2	73) 4	74) 1	75) 3	76) 4	77) 2	78) 4	79) 1	80) 2

0 to t = 3s is

2) Zero

1) 18 m

81.

4) 13.5 m

EAMCET-2011 MEDICAL-PHYSICS

A wheel of radius 0.5m rolls without sliding on a horizontal surface, starting from rest, the wheel

moves with constant acceleration 6 rad/s^2 . The distance travelled by the centre of the whell from t =

A body is projected vertically from the surface of the earth with a velocity equal to $\frac{3}{4}$ th escape velocity

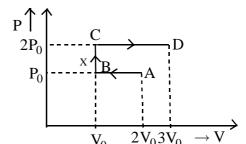
3) 27 m

	of earth. If 'R' is the	radius of earth, the maxim	num height attained by the	e body is
	1) $\frac{10}{3}$ R	2) $\frac{10}{9}$ R	3) $\frac{9}{7}$ R	4) $\frac{9}{8}$ R
83.	The time period of a	simple harmonic motion is	8s. At $t = 0$, it is at its equ	ilibrium position. The ratio of
	distance traversed by	it in the first and second	seconds is	
	1) $\frac{1}{\sqrt{3}}$	2) $\frac{1}{2}$	3) $\frac{1}{\sqrt{2}}$	4) $\frac{1}{\sqrt{2}-1}$
84.	An Aluminium and C	Copper wire of same cross	sectional area but having	lengths in the ratio 2:3 are
	joined end to end. Th	nis composite wire is hung	from a rigid support and	a load is suspended from the
		se in length of the composite : $\left[Y_{A\ell} = 20 \times 10^{11} \text{N} / \text{m}^2 \right]$	-	rease in lengths of Aluminium
	1) 1.0 mm; 1.1 mm	2) 0.6 mm; 1.5mm	3) 0.7 mm; 1.4 mm	4) 0.9 mm; 1.2 mm
85.	The surface energy of energy is	of a liquid drop is E. It is	sprayed into 1000 equal	droplets. Then their surface
	1) E	2) 1000 E	3) 100 E	4) 10 E
86.		h two capillary tubes A an		he length and radius of B are
	1) 1	3) 8	3) 4	4) 2
87.	At 10°C, the value of this ratio is	f the density of a fixed mas	ss of an ideal gas divided l	by its pressure is 'x'. At 110°C
	1) $\frac{110}{10}$ x	2) $\frac{283}{383}$ x	3) $\frac{10}{110}$ x	4) $\frac{383}{283}$ x
88.	When a liquid, filled	in two vessels A and B of	f equal volumes, is heated	, the coefficients of apparent
	expansion of the liqu	aids are found to be γ_1 a	nd γ_2 respectively. If α	be the coefficient of linear
	expansion of A, then	the coefficient of linear exp	pansion of B will be	
_	$1) \ \frac{\gamma_1 - \gamma_2}{3} + \alpha_1$	$2) \frac{\gamma_1 - \gamma_2}{3} - \alpha_1$	$3) \ \frac{\gamma_2 - \gamma_1}{3} + \alpha_1$	4) $\frac{\gamma_2 - \gamma_1}{3} - \alpha_1$ Page No.:
_				

P-V diagram of an ideal gas is shown in figure. Work done by the gas in the process ABCD is



2) $4P_{0}V_{0}$



- 3) $2P_{0}V_{0}$
- 4) $3P_0V_0$
- 90. Two cylinders A and B fitted with pistons. A and B contain equal moles of an ideal monoatomic gas at 400 K. Piston in A is free to move, while piston in B is held fixed. Same amount of heat is given to the gas in each cylinder. If the rise in temperature of the gas in A is 42 K, then the increase in the temperature of the gas in B is , $\left(\gamma = \frac{5}{3}\right)$
 - 1) 70 K
- 2) 21 K

3) 35 K

- 4) 42 K
- 91. The temperature of a perfect black body is 727°C and its area is 0.1 m². If Stefan's constant is 5.67×10^{-8} W/m² k⁴, then heat radiated by it in 0.3 minutes is
 - 1) 102060 cal
- 2) 102.06 cal
- 3) 1701 cal
- 4) 17010 cal
- A source of sound producing wavelength 50 cm is moving away from a stationary observer with $\frac{1}{5}$ th 92. speed of sound. Then what is the wavelength of sound heard by the observer
 - 1) 60 cm
- 3) 70 cm
- 3) 55 cm
- 4) 40 cm
- Two identical flutes produce fundamental notes of frequency 300 Hz at 27°C. If the temperature of the 93. air in one of the flutes in increased to 31°C, the number of beats heard per second will be
 - 1) 1

2) 4

3) 3

- 4) 2
- 94. A water film is formed on a glass - block. A light ray is incident on water film from air at an angle 60° with the normal. The angle of incidence on glass slab is, [given $\mu_g = 1.5$, $\mu_w = \frac{4}{3}$]

- 1) $\sin^{-1} \left(\frac{9\sqrt{3}}{16} \right)$ 2) $\sin^{-1} \left(\frac{3\sqrt{3}}{8} \right)$ 3) $\sin^{-1} \left(\frac{1}{\sqrt{3}} \right)$ 4) $\sin^{-1} \left(\frac{4\sqrt{3}}{9} \right)$
- A thin bi-convex lens of focal length 20 cm is made of glass of refractive index 1.5. When it is dipped in 95. a liquid of refractive index $\frac{9}{8}$, it acts as
 - 1) Convex lens of focal length 30 cm
- 2) Concave lens of focal length 15 cm
- 3) convex lens of focal length 15 cm
- 4) Concave lens of focal length 30 cm

- 96. When a light of wavelength 4000 0_A in vacuum travels through the same thickness in diamond and water separately, the difference in the number of wave is 200. Find the thickness, if refractive indices of diamond and water are $\frac{5}{2}$ and $\frac{4}{3}$ respectively
 - 1) 68.5 mm
- 2) 6.85 mm
- 3) 0.685 mm
- 4) 0.0685 mm
- 97. Two polarizers have their axes inclined at 45° to each other. If unpolarized light of intensity I_{\circ} is incident on the first polarizers, then the intensity transmitted light through second polarizer is
 - 1) I₀

2) 0

3) $\frac{I_0}{4}$

- 4) $\frac{I_0}{2}$
- 98. A magnet of length 10 cm and magnetic moment 1 Am² is placed along the side AB of an equilateral triangle ABC. If the length of sides AB is 10 cm, the magnetic induction at point C is
 - 1) 10^{-4} T
- **2**) 10^{-9} T
- 3) 10^{-7} T
- 4) 10^{-5} T
- 99. A bar magnet of moment M gives a time period 'T' at a place in a vibration magnetometer. Four such similar bar magnets are placed in the frame one over the other out of which one magnet is placed with opposite polarity. The new time period is
 - 1) T

2) 2T

3) $\frac{T}{\sqrt{2}}$

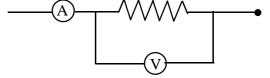
- **4**) $\sqrt{2}T$
- 100. Four positive point charges (+q) are kept at the four corners of a square of side 'l'. The net electric field at the midpoint of any one side of the square is $\left[\text{take} \frac{1}{4\pi\varepsilon_0} = K \right]$
 - 1) $\frac{8Kq}{\sqrt{5}.\ell^2}$
- $2) \frac{Kq}{\ell^2}$

- $3) \frac{4Kq}{\ell^2}$
- 4) $\frac{16\text{Kq}}{5\sqrt{5}.\ell^2}$
- 101. Consider a parallel plate capacitor of capacity 10 μ F filled with air. When the gap between the plates is filled partly with a dielectric of dielectric constant 4, as shown in figure, the new capacity of the capacitor is (A is the are of plates)
 - **1**) 2.5μF
- **2**) 25μF

air air

dielectric

- 3) $20\mu F$
- **4**) 40 μ F
- 102. In the circuit shown in figure, the ammeter shows 5A current, voltmeter shows 250V and the internal resistance of the voltmeter is 2500Ω , then the value of R is
 - **1**) 510Ω
- 2) 51Ω



- **3**) 150 Ω
- **4**) 0.51 Ω

103. A battery of emf 'E' and internal resistance 'r' is connected to a resistor of resistance 'r₁' and Q Joules of heat is produced in a certain time 't'. When the same battery is connected to another resistor of resistance 'r₂' the same quantity of heat is produced in the same time 't'. then, the value of 'r' is

1)
$$\sqrt{r_1 \ r_2}$$

2)
$$\frac{r_1^2}{r_2}$$

3)
$$\frac{r_2^2}{r_1}$$

4)
$$\frac{1}{2}(r_1+r_2)$$

104. In a thermocouple, cold junction is at 0° C, hot junction is at t° C. The graph drawn between thermo emf (E) and temperature of the hot junction (t) is represented by the equation, E= at + bt². If a = -224b, the neutral and the inversion temperatures of the thermocouple respectively, in degree Celsius are

105. If \overline{B} is the magnetic Induction, at the centre of a circular coil of radius 'r' carrying a current is 1 T, then its value at a distance of $\sqrt{3}$ r on the axis from the centre of the coil is

2)
$$\frac{1}{4}$$
 T

3)
$$\frac{1}{8}$$
 T

4)
$$\frac{1}{16}$$
 T

106. A series LCR circuit is connected to a source of alternating emf 50 V and if the potential differences across inductor and capacitor are 90V and 60V respectively, the potential difference across resistor is

107. A long straight vertical conductor carries a current of 8 A in the upward direction. What is the magnitude of the resultant magnetic induction at a point in the horizontal plane at a distance of 4 cm from the conductor towards South? (The horizontal component of earth's magnetic induction = 4×10^{-5} T)

1)
$$4 \times 10^{-5}$$
 T

2)
$$2 \times 10^{-5}$$
 T

3)
$$2\sqrt{2} \times 10^{-5} \text{ T}$$

4)
$$4\sqrt{2} \times 10^{-5} \text{ T}$$

108. Match the following physical quantities with their respective dimensional formula

a) Angular momentum e)
$$\left[ML^2T^{-3}\right]$$

$$\mathbf{f}$$
) $\left[\mathrm{ML}^2\mathrm{T}^{-1}\right]$

$$\mathbf{g}$$
) $\left[\mathbf{MLT}^{-1} \right]$

$$\mathbf{h)} \left[\mathbf{ML}^{-1} \mathbf{T}^{-2} \right]$$

1)
$$a - g$$
; $b - h$; $c - f$; $d - e$

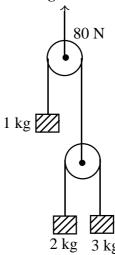
2)
$$a - g$$
; $b - h$; $c - e$; $d - f$

3)
$$a - f$$
; $b - g$; $c - h$; $d - e$

4)
$$a - f$$
; $b - g$; $c - e$; $d - h$

- 109. Two vectors are $(\vec{A}+\vec{B})$ and $(\vec{A}-\vec{B})$. The angle between their resultant vector and \vec{A} is
 - 1) $\cos^{-1}\left(\frac{A-B}{A+B}\right)$ 2) Zero

- 3) $\cos^{-1}(A/B)$
- 4) cos⁻¹ (B/A)
- 110. A ball is dropped into a well. The water level in the well is at a depth 'h' below the top. If the speed of sound is v, then after what time the splash of sound is heard
- 1) $h\left[\frac{2}{g} \frac{1}{v}\right]$ 2) $h\left[\sqrt{\frac{2}{gh}} + \frac{1}{v}\right]$ 3) $h\left[\sqrt{\frac{2}{gh}} \frac{1}{v}\right]$ 4) $h\left[\frac{2}{g} + \frac{1}{v}\right]$
- 111. The acceleration of 3 kg mass in figure shown is (assume $g = 10 \text{m/s}^2$)
 - 1) $16\frac{2}{3}$ m/s² downwards
 - 2) $3\frac{1}{2}$ m/s² downwards
 - 3) $3\frac{1}{2}$ m/s² upwards
 - 4) Zero



- 112. A bullet is fired normally towards an immovable wooden block. It loses 25% of its kinetic energy in penetrating through a thickness 'x' of the plank. The total thickness penetrated by the bullet into the block is
 - 1) 8x

2) 2x

3) 4x

- 4) 6x
- 113. A shell is fired from a cannon with a velocity 'v' at an angle ' θ ' with the horizontal. At the highest point in its path is explodes into two pieces of equal masses. One of the pieces retraces its path and reaches the cannon. Then the velocity of the other piece immediately after collision is
 - 1) 3 v cos θ
- 2) v cos θ
- 3) 2 v cos θ
- 4) $\frac{3}{2}$ v cos θ
- 114. A uniform metal disc of diameter 24 cm is taken and out of it a disc of diameter 8 cm is cut off from the right side end. The centre of mass of the remaining part will be at
 - 1) Right side, 2 cm from the centre
- 2) Left side, 1 cm from the centre
- 3) Left side, 2 cm from the centre
- 4) Right side, 1 cm from the centre
- 115. A uniform chain of length 'l' is placed on a rough table, with its length $\frac{\ell}{n}(n>1)$ hanging over the edge of the table. If the chain just begins to slide off the table by itself, the coefficient of friction between the chain and the table is
 - 1) $\frac{n-1}{n+1}$

- 3) $\frac{1}{n+1}$
- 4) $\frac{1}{n-1}$

- 116. Two circular rings of equal mass (m) and radius (r) are placed side by side, touching each other. The moment of inertia of the system about tangential axis in the plane of system passing through point of contact of the rings is
 - 1) $\frac{5}{2}$ mr²
- 3) $\frac{3}{2}$ mr²
- 117. When two electrons enter into a magnetic field with different velocities, they deflect in different circular paths, in such a way that the radius of one path is double that of the other. 1 x10⁻⁷ ms⁻¹ is the velocity of the electron in smaller circle of radius 2 x 10⁻³ m. The velocity of electron in the other circular path is
 - 1) $2 \times 10^7 \text{ms}^{-1}$
- 2) $2 \times 10^6 \text{ms}^{-1}$
- 3) $4 \times 10^7 \text{ ms}^{-1}$
- 4) $4 \times 10^6 \text{ ms}^{-1}$
- 118. When a light of photons of energy 4.2 e V is incident on a metallic sphere of radius 10 cm and work function 2.4 e V, photoelectrons are emitted. The number of photoelectrons liberated before the emis-

sion is stopped, is
$$\left(e = 1.6 \times 10^{-19} \text{ and } \frac{1}{4\pi\varepsilon_0} = 9 \times 10^9 \text{ N} - \text{m}^2 / \text{coulomb}^2\right)$$

- 1) 1.25×10^8
- **2)** 6.25×10^{18} **3)** 6.25×10^8
- 4) 1.25×10^9
- 119. Two deuterium nuclei each of mass 'm' fuse together to form a Helium nucleus, releasing an energy E. If 'c' is the velocity of light, the mass of Helium nucleus formed will be
 - 1) $m + \frac{E}{a^2}$
- 2) $2m \frac{E}{a^2}$
- 3) $2m + \frac{E}{a^2}$
- 120. A zener diode voltage regulator operated in the range 120 180 V produces a constant supply of 110 V and 250 mA to the load. If the maximum current is to be equally shared between the load and zener, then the values of series resistance (Rs) and load resistance (R_s) are
 - 1) $R_L = 140\Omega$; $R_S = 440\Omega$

2) $R_L = 280\Omega$; $R_S = 70\Omega$

3) $R_L = 70\Omega$; $R_S = 280\Omega$

4) $R_L = 440\Omega$; $R_S = 140\Omega$

81) 4	82) 3	83) 4	84) 2	85) 4	86) 2	87) 2	88) 1	89) 4	90) 1
91) 0	92) 1	93) 4	94) 2	95) 1	96) 4	97) 3	98) 1	99) 4	100) 4
101) 2	102) 2	103) 1	104) 4	105) 3	106) 4	107) 4	108) 3	109) 2	110) 2
111) 2	112) 3	113) 1	114) 2	115) 4	116) 2	117) 1	118) 1	119) 2	120) 4

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121.	Which one of the follow	ving oxides is reduced by v	vater gas to obtain the me	tal during its extraction?							
	1) WO ₃	2) Fe_2O_3	3) NiO	4) ZnO							
122.	Which air pollutant is	responsible for Bhopal gas	tragedy?								
	1) MIC	2) CO	3) PIC	4) CFC							
123.	0.16 gms of an organic	c compound containing su	lphur produces 0.233 gm	s of BaSO ₄ . Percentage of							
	sulphur in the compound is										
	1) 50	2) 10	3) 20	4) 80							
124.	Assertion (A): Cyclohe	xane is the most stable Cy	cloalkane								
	Reason (R): Cycloprop	Reason (R): Cyclopropane and cyclobutane are less stable due to angle strain and torsional strain									
	The correct answer is										
	1) A is not true but R is true										
		e and R is the correct explar	nation of A								
		e but R is not the correct exp									
			planation of A								
	4) A is true but R is not										
125.	$C_6H_6+O_3 \longrightarrow X \xrightarrow{Zn/H_2O} Y$. X and Y are respectively										
	1) Triozonide, Glycol		2) Monoozonide, Oxalid								
126.	3) Diozonide, Glycol 4) Triozonide, Glyoxalic acid Which one of the following exhibits enantiomerism?										
	1) $H_3C - CH_2 - CH_2$	_	2) $H_3C - CH_2 - CBr_2 -$	-CH ₃							
	, <u> </u>	-		-							
	3) $BrCH_2 - CH_2 - CH$	$_2$ – CH_2Br	4) $H_3C - CH - CH_2 - CH_3$								
127.	Phosgene is formed slo	wly from which one of the	following on exposure to a	air and sunlight?							
	1) H ₃ COH	2) $C_2H_5C\ell$	3) CHC ℓ_3	4) H ₃ CCℓ							
128.	3	of Phenol (1), Nitrobenzen	, 3	3							
	=	2) (1) > (2) > (3)									
129.	The reagent used in the	e Wolff-Kishner reduction	is								
	1) Sn/HCℓ	2) LiA ℓ H ₄	3) $H_2N - NH_2/KOH$	4) H ₂ /Ni							
130.		r carboxylic acids are 4.76	5, 4.19, 0.23 and 3.41 resp	pectively. the pK _a value of							
	strongest carboxylic ac 1) 0.23	2) 4.76	3) 4.19	4) 3.41							
131.	*	ion using Zinc in alkaline i	,	*							
	pi (π) bonds in 'X' is	J		3 (3 /							
	1) 27σ , 7π	2) 27σ , 6π	3) 24σ , 7π	4) 24σ , 6π							
132.		ving is not a biopolymer?									
122	1) Insulin	2) DNA	3) Cellulose	4) Nylon – 6							
133.	1) A tripeptide has two	wing statements is not corr	2) α – Amino acids exi	et as Zwitter ions							
	3) Except Glycine all other naturally occurring α – amino acids are optically active 4) α Amino acids have maximum solubility at their isoelectric point										
	, 22	,	1 -								

134. Which one of the following is an artificial sweetening agent?

OCOCH₃

$$CO_2H$$

$$A)$$
NHCOCH₃

- 135. Which property among the following is same for both hydrogen and deuterium molecules?
 - 1) Boiling point
- 2) Bond length
- 3) Bond energy
- 4) Melting point
- 136. In which of the following reactions hydrogen is not liberated?
 - 1) heating the concentrated NaOH with Si
- 2) reaction of zinc with NaOH

3) reaction of fused NaOH with C

- 4) reaction of NaOH with sulphur
- 137. Which one of the following statements is not correct?
 - 1) Amorphous boron on heating with oxygen forms B_2O_3
 - 2) Boron is a non-conductor of electricity
 - 3) Moissan boron is amorphous
 - 4) The reaction between boron and concentrated HNO₃ gives N₂O
- 138. Which one of the following is a correct set?
 - 1) Diamond, sp
- 2) Graphite, sp²
- 3) Diamond, sp²
- 4) Graphite, sp³
- 139. The total number of σ and π bonds in pyrophosphoric acid are respectively
 - 1) 12, 2
- 2) 8, 4

- 3) 8, 2
- 4) 10, 2
- 140. What are the products formed when moist chlorine gas is reacted with hypo?
 - 1) Na₂S₄O₆, Na₂SO₃, HCl

2) Na₂S₄O₆, NaCl, HCl

3) $Na_2^2SO_4$, S, HCl

- 4) Na₂SO₂, S, HCl
- 141. What is the bond angle $(OC\hat{\ell}O)$ in $C\ell O_2^-$?
 - $1)\ 105^{0}$

 $2) 111^{0}$

 $3) 90^{0}$

- 4) 1200
- 142. The hybridization of Xe and the number of lone pairs of electrons on it in XeF, are
 - 1) sp^3d^2 , 2
- 2) sp^3d^3 , 1
- 3) sp^3d^2 , 1
- 4) sp^3d^3 , 2
- 143. Identify the order in which the spin only magnetic moment (in BM) increases for the following four ions:
 - I) Fe²⁺

II) Ti²⁺

- III) Cu²⁺
- $IV) V^{2+}$
- 1) III, IV, I, II 2) III, II, IV, I 3) I, II, IV, III 4) IV, I, II, III 144. Which one of the following frequencies of radiation (in Hz) has a wavelength of 600 nm?
 - 1) 2.0×10^{14}
- 2) 5.0×10^{14}
- 3) 2.0×10^{13}
- 4) 5.0×10^{16}
- 145. According to Bohr's theory, which one of the following values of angular momentum of hydrogen atom is not permitted?
 - 1) $\frac{1.5h}{\pi}$

2) $\frac{0.5h}{\pi}$

- 3) $\frac{1.25h}{\pi}$
- 4) $\frac{h}{a}$
- 146. Which one of the following is correct order of second ionization potential of Na, Ne, Mg and $A\ell$?
 - 1) $Mg < A\ell < Ne < Na$

2) Na < Mg < Ne < A ℓ

3) $A\ell < Na < Mg < Ne$

4) Ne < A ℓ < Na < Mg

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147.	The formal char	ges of N	, N ₍₂₎ and	d O atoms	in : 🎛	$\dot{N}_{(1)} = 1$	$N_{(2)} = 0$	are	respectively	
	1) +1, +1, 0		2) -1, -1	, 0		3) +1,	-1, 0		4) -1, +1,	0
148.	In which of the	following	g pairs, th	e central at	toms h	ave the	same n	umber	of lone pairs o	f electrons?
	1) XeF_4 , $C\ell O_4^-$		2) SCl ₄	$, CH_4$		3) PC	ℓ_5 , BrF ₅		4) XeF ₂ , IO	Cl
149.	19 grams of a mi STP. The weight before heating?		emaining			What is			g) of Na ₂ CO ₃	
	1) 4.0 Under which one 1) High temperate 3) Low temperate Which one of the	ure and l	low pressu	ıre ure		2) Low4) Hig	tempe h tempe	rature a	nd low pressure and high pressu	e re
	$BaC\ell_2$, $NaC\ell$ and	nd $A\ell_2$	$(SO_4)_3$ re	espectively?						
152.	1) 5 : 3 : 2 The volume in a solution of H ₃ PO		2) 2 : 3 : .1 M solu		OH rec	3) 3 : 2 quired		pletely	4) 5 : 2 : 3 neutralize 100	ml. of 0.3 M
153.	1) 300 Match the follow		2) 30			3) 60			4) 600	
	List I A) Potential of I B) Cu ²⁺ / Cu	Hydrogei	List II n electrode	e at p ^H = 10	0	I) 0.76 II) 0.0				
	C) Zn / Zn ²⁺					•	0.591 V			
	D) $\frac{2.303\text{RT}}{\text{F}}$					IV) 0.3				
						V) – 0	.76 V			
	1) III	B (II		2) 4)	A V II	B I V	C IV I	D II	
154	3) III If the values of /			OH and N	,				IV m ⁻¹ cm ² equiv	-1 resnectively
10 11	the $^{\wedge}_{\infty}$ of NH ₄ C				act "	100,	ar, and	107 01	m . em . equi,	respectively,
155.	1) 22 The number of u $(N = Avogadro n)$	ınit cells	2) 456 present i	n 39 grams		3) 238 assium		rstallize	4) 196 s as body centr	red cube is :
	1) $\frac{N}{3}$		2) N			3) $\frac{N}{4}$			4) $\frac{N}{2}$	
156.	Which one of the energies of forw 1) $E_f = -E_b$			d reactions					f $\mathbf{E}_{\mathbf{f}}$ and $\mathbf{E}_{\mathbf{b}}$ are	the activation
157.	If the equilibrium	n consta	nt for the	reaction 2	AB==	\Longrightarrow A ₂ -	$+B_2$ is	49, wh	at is the equilib	rium constant
	for $AB \longrightarrow \frac{1}{2}$	$A_2 + \frac{1}{2}B$	B ₂ ?			_	_			
	1) 24.5		2) 49			3) 7			4) $\frac{1}{7}$	

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- 158. The p^H of 0.5 M acetic acid is $(K_a = 2 \times 10^{-5})$

3) 2

- 4) 11
- 159. What is the entropy change in J.K⁻¹ during the melting of 27.3 grams of ice at 0° C? 3) 330 2) 33
- 160. Which one of the following give a straight line for Freundlich adsorption isotherm?
 - 1) $\log \frac{x}{m} Vs. \log \frac{1}{P}$ 2) $\frac{x}{m} Vs. \frac{1}{P}$
- 3) $\log \frac{x}{m} \text{Vs.} \log P$ 4) $\frac{x}{m} \text{Vs.} \frac{1}{P}$

121) 3	122) 1	123) 3	124) 3	125) 1	126) 4	127) 3	128) 1	129) 3	130) 1
131) 2	132) 4	133) 4	134) 2	135) 2	136) 4	137) 4	138) 2	139) 1	140) 3
141) 2	142) 2	143) 2	144) 2	145) 3	146) 1	147) 4	148) 4	149) 2	150) 1
151) 3	152) 4	153) 1	154) 3	155) 4	156) 2	157) 3	158) 2	159) 2	160) 3