TEST SERIES CSIR-NET/JRF DEC. 2018

BOOKLET SERIES E

FULL LENGTH TEST - II

Paper Code 03

Test Type: TEST SERIES

LIFE SCIENCES

Duration: 3:00 Hours

Date: 08-12-2018 Maximum Marks: 200

Read the following instructions carefully:

* Single Paper Test is divided into **THREE** Parts.

Part - A: This part shall carry 15 questions. Each question shall be of 2 marks.

Part - B: This part shall carry 35 questions. Each question shall be of 2 marks.

Part - C: This part shall contain 25 questions. Each question shall be of 4 marks.

* Darken the appropriate bubbles with HB pencil/Ball Pen to write your answer.

* There will be negative marking @25% for each wrong answer.

* The candidates shall be allowed to carry the Question Paper Booklet after completion of the exam.

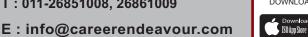
* For rough work, blank sheet is attached at the end of test booklet.



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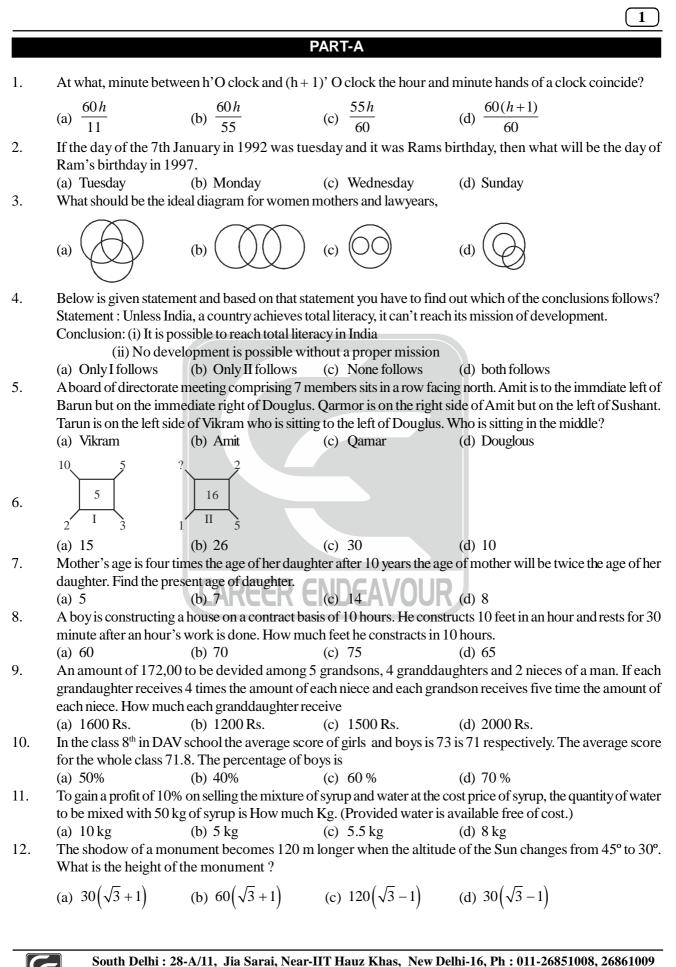
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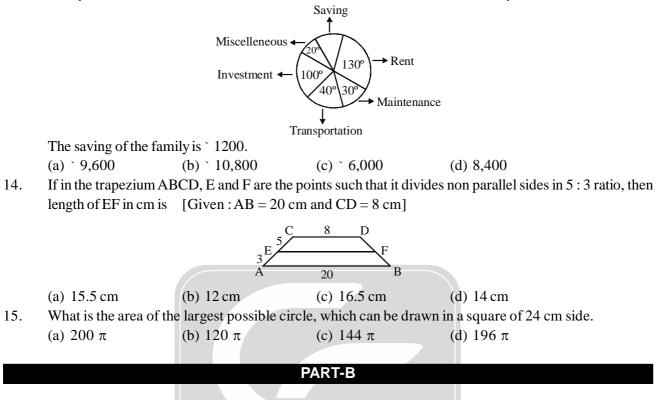


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13. Given below is a pie chart based on that pie chart which provides the information of expenditure of a family in various fields, based on these information find out income of the family?



- 16. Which of the following statements about thylakoids is not correct ?
 - (a) The thylakoids membranes contain photosystems
 - (b) They contain chlorophyll
 - (c) The contain electron transport machinery for photosynthesis
 - (d) The thylakoid membranes contain the Calvin cycle enzymes
- 17. Which of the following statements about chlorophyll is correct ?
 - (a) They make the electron transport chains
 - (b) They are found in stroma of chloroplast
 - (c) They absorb green light
 - (d) Chlorophyll molecules are photosynthetic pigments in the thylakoid membrane
- 18. Which reaction in photosynthesis is carried out by Rubisco or ribulose -1, 5-bisphosphate carboxylase?
 - (a) Conversion of 3 phosphoglycerate into glyceraldehyde 3 phosphate
 - (b) Utilisation of CO_2 to produce 3-phosphoglycerate
 - (c) Conversion of glyceraldehyde 3-phosphate into RuBP
 - (d) Carboxylation of phosphoenol pyruvate to oxaloacetate
- 19. Which of the following statements is correct regarding the mechanism of Calvin cycle ?
 - (a) It is a metabolic pathway by which plants use CO_2 to make pentose sugars such as glucose
 - (b) Enzymes of Calvin cycle are more reactive when there is a decrease in light intensity
 - (c) In Calvin cycle, Rubisco adds CO_2 to 3-phosphoglycerate
 - (d) The Calvin cycle is a metabolic pathway by which plants convert CO_2 and water into carbohydrates



		3			
20.	Which is the correct sequence of transfer of electron	s in Z-scheme of photosynthesis ?			
	(a) $P680 \rightarrow PC \rightarrow Cytb_{c}f \rightarrow PQ \rightarrow Pheo$	(b) P680 \rightarrow PC \rightarrow Pheo \rightarrow Cytb ₆ f \rightarrow PQ			
	(a) $P680 \rightarrow PC \rightarrow Cytb_6 f \rightarrow PQ \rightarrow Pheo$ (c) $P680 \rightarrow Pheo \rightarrow PQ \rightarrow Cytb_6 f \rightarrow PC$	(d) Cytb $f \rightarrow P680 \rightarrow Pheo \rightarrow PQ \rightarrow PC$			
21.	The Red Data Book is the documentation of rare and				
	(a) Animals (b) Plants	(c) Fungi (d) All of the above			
22.	The Cartagena protocol is regarding the safe use, tran				
	(a) Nuclear waste	(b) Invasive alien species			
	(c) Living modified organism	(d) Toxic byproducts and industrial effluents			
23.	Which of the following are not the name of temperat				
	(a) Steppes in Central Asia	(b) Prairies in North America			
	(c) Veld in South America	(d) Pampas in South America			
24.	Which of the following key faunal species is being con				
2	(a) Musk Dear	(b) One horned Rhino			
	(c) Kashmir Stag or Hangul	(d) Asiatic lion			
25.	To show how many organisms are present at each le				
23.		(c) pyramid of numbers (d) food web			
26					
26.	Adaptations that an organism acquires by its own act	nons are			
	(a) Heritable (b) Nat haritable				
	(b) Not heritable				
	(c) Can be made heritable through some modification(d) Both heritable and not heritable	115			
27.	A large number of manatees are killed of due to a m	aior hurricane event what type of effect may occur			
21.	with this population relating to its gene pool	ajor numeate event what type of effect may occur			
	(a) A founder effect	(b) A genetic equilibrium effect			
	(c) A speciation event	(d) A bottleneck effect			
28.	Molecular evidence in support of natural selection inc				
	(a) The nearly universal genetic code(b) The presence of vestigial structure	AVUUR			
	(c) A tendency toward perfect, unchanging DNA in				
	(d) The transmission of acquired characteristics by D	DNA			
29.	Which of the following is also called halophiles?				
	(a) Eubacteria	(b) Actinomyces			
	(c) Cyanobacteria	(d) Archaebacteria			
30.	A given population is in Hardy–Weinberg equilibrium.	. Which of the following statement is INCORRECT			
	about the population?				
	(a) Individuals in the population mate randomly.				
	(b) The frequencies of alleles in the gene pool does n	not change over time.			
	(c) The population undergoes genetic drift.				
	(d) All of the above				
31.	When an influenza virus enters a cell, it immediately	starts to do which of the following?			
	(a) Incorporate viral DNA into the host cell's chromosome.				
	(b) Replicate its genetic material and synthesize viral	proteins.			
	(c) Use a viral copy of reverse transcriptase to manu	facture viral DNA			

- (c) Use a viral copy of reverse transcriptase to manufacture viral DNA.
- (d) Destabilize membrane proteins and lyse the host cell.



32.	Through a microscope, you can see a cell plate beginni	č			
	forming on either side of the cell plate. The cell is mo	st likely,			
	(a) an animal cell in the process of cytokinesis.				
	(b) a plant cell in the process of cytokinesis.				
	(c) a bacterial cell dividing				
22	(d) a plant cell in metaphase				
33.	Which one of the following amino acid substitution conformation?				
	(a) Phe \rightarrow Ile (b) Ser \rightarrow Thr	(c) $Gln \rightarrow Tyr$ (d) $Glu \rightarrow Val$			
34.	Which of the following pair of amino acids have chira				
	(a) Thr & Leu (b) Ser & Glu	(c) Ile & Thr (d) Gly & Pro			
35.	Glycogen storage disease type O occurs due to defici	-			
	(a) glycogen phosphorylase	(b) phosphofructokinase			
	(c) glycogen synthase	(d) transglucosidase			
36.	Which of the following is the correct order in which the	ne extra-cellular signals are transmitted?			
	(a) Adenylate cyclase > Camp > Protein kinase A				
	(b) Protein kinase $A > Adenylate cyclase > cATP > c$	cAMP			
	(c) Protein kinase $A > cAMP > Adenylate cyclase$				
	(d) cAMP > Adenylate cyclase > cATP > Protein kir	nase A			
37.	Choose a correct statement about phosphorylases and kinases?				
	(a) Both phosphorylases and kinases require ATP as the source of energy and phosphate.				
	(b) Only kinases require ATP as the source of phosphate.				
	(c) Only phosphorylases require ATP as the source of	f phosphate.			
	(d) None of the above.				
38.	FOS, JUN and MYC are				
	(a) Proteins that are expressed on the surface of cancerous cells.				
	(b) Proteins that phosphorylate transcription factors in cancerous cells.				
	(c) Proteins involved in regulation of expression of ge	nes involved in growth promotion.			
	(d) All of the above.				
39.	How do retroviruses are capable of causing cancer?				
	(a) Retroviruses produce a very high number of viruses progeny.				
	(b) Retroviruses often lead to point mutations in their <i>pol</i> gene.				
	(c) Retroviruses transduce mutant versions of cellular genes that normally regulate cell growth.				
	(d) Retroviruses cause more efficient infection to cells				
40.	Which one of the following statements is CORRECT for	or Mycoplasma?			
	(a) Their cells are of definite shape. (b)	They are resistant to lysis by osmotic shock.			
	(c) Their growth is not inhibited by penicillin. (d)	They are nonpathogenic to human.			
41.	Which of the following statements is correct ?				
		(a) Gram negative bacteria are colored purple after Gram staining			
	(b) Gram negative bacteria are commonly more resistant to antibiotics than Gram positive bacteria				
	(c) Gram negative bacteria cell was consists of a thick layer of peptidoglycan outside the plasma membrane				
	(d) Cell wall of Gram negative bacteria does not contain an outer membrane				

4



		5				
42.	2. Which among the following in NOT a conclusion of neutral theorem.	bry of evolution ?				
	(a) Organisms are not adapted to their environment					
	(b) Rate of advantageous mutations is slowest	(b) Rate of advantageous mutations is slowest				
	(c) Fixation of advantageous mutations is random & governed	by genetic drift				
	(d) Most mutations are lost before they can be fixed					
43.	3. The topological features of circular DNA may not affect which	ch of the following?				
	(a) The electrophoretic mobility of the DNA.	(a) The electrophoretic mobility of the DNA.				
	(b) The sedimentation properties of the DNA.	(b) The sedimentation properties of the DNA.				
	(c) The affinity toward proteins that bind to the DNA.					
	(d) The susceptibility of the DNA to the action of DNA ligas	se.				
44.	4. North-western blotting is used for identification of					
	(a) RNA and protein interactions.					
	(b) DNA-DNA interactions.					
	(c) DNA protein interactions.					
	(d) Detecting the levels of post-translationally modified protei	ns.				
45.	RNA integrity number (RIN) value of 9.8 was obtained for a purified RNA, it means					
	(a) RNA is of good quality	(a) RNA is of good quality				
	(b) RNA is of bad quality					
	(c) RNA is contaminated with DNA					
	(d) RNA is 0.2% less concentrated than cellular level					
46.	6. Which of the following is an example of exonuclease that cle	eaves only one strand?				
	(a) BamHI (b) Bal-31 (c) ExoIII	(d) DNaseI				
47.	7. Which of the following enzyme provides protection against experiments?	self-ligation of vectors during gene cloning				
	(a) Alkaline phosphatase (b) Polynucleo	tidyl kinase				
	(c) Restriction endonuclease (d) Terminal de	eoxyribonucleotide transferase				
48.	8. Diacylglycerol activates CARCER ENDER					
	(a) Protein kinase A (b) Protein kin	ase C				
	(c) MAP kinase (d) Tyrosine ki	nase				
49.	9. Apoptosis involves all but which of the following?					
	(a) Fragmentation of the DNA	(a) Fragmentation of the DNA				
	(b) Cell-signaling pathways					
	(c) Lysis of the cell					

- (d) Digestion of cellular contents by scavenger cells.
- Cell A has half as much DNA as cells B, C and D in a mitotically active tissue. Cell A is most likely in
 - (a) G₁
 - (c) prophase

(b) G₂(d) metaphase

50.

			6			
		D				
		27	ART-C			
51.	Which of the following stat correct ?	ements about the m	echanism of light dependent reactions of photosynthesis is			
	I. Ferredoxin NADP red	uctase reduces NA	DP⁺ to NADPH.			
	II. Electrons from photos	ystem I reduce NA	DPH.			
	III. Electrons from photos	ystem I reduce pheo	phytin.			
	IV. Electrons from NADF	H revert photosyste	em II back to the ground state.			
	(a) I and II	(b) II and III	(c) I only (d) IV only			
52.	Which of the following stat	ements about cyclic	e photophosphorylation is correct ?			
	(a) It reduces $NADP^+$ to 2	NADPH				
	(b) It utilizes excess ATP					
	(c) Cyclic photophospho photosystem I	ryation occurs in t	he cytochrome $b_{o}f$ complex and utilizes electrons from			
	(d) It utilizes electrons from	n photosystem II				
53.		· ·	osystem I in chloroplasts are correct ?			
			idently from photosystem II.			
	II. Plastocyanin reduces p	photooxidised P700	in PSI.			
	III. It produces both ATP	and NADPH.				
	IV. Electron ejected from	P700 in photosyste	m I are replaced with electrons from water.			
	(a) I, II and III	(b) I, II and IV	(c) II, III, IV (d) I and II			
54.	Which of the following sta	tements about C ₄ p	lants is correct ?			
	I. C_4 plants minimise the oxygenase activity of rubisco by fixing CO ₂ into PEP.					
	II. C_4 plants minimise the oxygenase activity of rubisco by fixing CO_2 into oxaloacetate.					
	III. C_3 plants are more efficient in photosynthesis than C_4 plant.					
	IV. C_4 plants are more efficient in photsoynthesis than C_3 plant.					
	(a) I and II	(b) I and III	(c) II and IV (d) II and III			
55.	Match the following					
	Column – I		Column – II			
	A. Behavioural isolation	(i) Populations a	are separated by distance or barriers.			
	B. Ecological isolation		ect signals to initiate reproductive activity, males and females			
		-	opulations may never interbreed.			
	C. Mechanical isolation	-	nay be reproductively active at different times; they			
		•	t different breeding seasons.			
	D. Temporal isolation		lifferences can prevent fertilisation as reproductive			
		-	to complement each other for the exchange of gametes.			
	A B	С	D			
	(a) i iii	iv	i			
	(b) i i	iv	ш			
	(c) ii i	i 	ÎV			
	(d) i i	ü	īv			



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56.		-	post-zygotic barri	ers to reprodu	ction betweer	n to reproduction between species
	of a population	l				
	I. Behavioura	al isolation.		II.	Ecological is	solation.
	III. Hybrid bre	akdown.		IV.	Mechanical	isolation.
	V. Hybrid inv	iability.		VI.	Temporal iso	plation.
	VII. Hybrid ste	erility.				
	(a) I, III, IV,	V	(b) II, III, V, V	/II (c)	III, V, VII	(d) I, II, IV, VI
57.						with neighbouring species. (1.0
	e		0) indicates complete niche overlap
	with other spec	cies).			-	
	Ν	iche breadth	Niche overlap			
	Species A	0.7	0.8			
	Species B	0.2	0.1			
	Species C	0.2	0.8			
	Species D	0.7	0.1			
				ecies likely to	be suffering	intense competition ?
	(a) Species A	bove speek	(b) Species B	-	Species C	(d) Species D
58.	Match the follo	wing .	(b) Species B	(0)	species c	(d) Species D
58.		U U	ll of a live whelk	(i)	Parasitism	
				(i) (ii)		competition
		-	eating a fish	(ii) (iii)	Intraspecific Commensalis	•
			ng on a birch tree			SIII
		-	ng to take over an	I (IV)	Mutualism	
	-	rem of fema		tah (in)	Dradation	
			n a fly the eggs ha	atch (IV)	Predation	
	and cat the					
			ggs inside a devel	oping figure		
	A	В 			UEJI	F
	(a) i	iii	iv	i	v	vi
	(b) iii	iv	i 	i	VI -	V
	(c) iv (x)	V	iii 	1	1	VI
50	(d) v	ÎV	ш	vi	1	ï
59.	Match the follo	owing				made up either cellulose or
	p) Archaea			(i)	fungal cellulo	made up either cellulose or
	q) Bacteria			(ii)	U U	es not contain peptidoglycan
	r) Eukarya					made up of peptidoglycan
	(a) p-(iii), q-(i), r-(ii)			p-(i), q-(ii),	
	(c) $p(ii), q(i)$				p-(ii), q-(iii)	
60.			ements regarding			,
	A. Heavy chain $V_H - D_H - J_H$ rearrangement begin in the pre-B-cell state.					
			ain is expressed b		Pro D con	
			ani is capiesseu b	y pre-b-cens.		

- C. Self-reactive B-cells can be saved from negative selection by light chain editing in peripheral blood.
- D. The enzyme terminal deoxynucleotidyl transferase (TdT) is active in pre-B-cell stage.



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- (a) A, B (b) B, C (c) C, D (d) A, D
- 61. From given statements find out true statements :
 - A. Cytokines can regulate which branch of immune system is activated.
 - B. All the antibodies secreted by a single plasma cell will have same idiotype & isotype.
 - C. Immunization with a hapten carrier conjugate results in production of anti-hapten antibodies only.
 - D. Immature B-cell express membrane IgM & IgD both.

Correct combinations are :

- (a) A, C (b) A, D (c) B, C (d) A, B
- 62. Given below are some results for immunization & their results w.r.t Ab- classes & their affinity. The correct match is :

	Immunization	Ab-Class	Affinity
A.	A primary response to a low antigen dose	IgM	High affinity
В.	A secondary response to a low antigen dose	IgG	Low affinity
C.	A primary response to a high antigen dose	IgM	Low affinity
D.	A secondary response to a high antigen dose	IgG	Low affinity
(a) A	A (b) B	(c) C	(d) D

- 63. Consider following statements about cytokines:
 - A. The anti-TAC mab recognizes IL-1R on T-cells.
 - B. High affinity IL-2R consists of three transmembrane proteins.
 - C. All cytokine binding receptors contain two or three subunits.
 - D. All members of each subfamily of the class I cytokine receptors share a common signal transduction unit.

Find False statements :

- (a) A, B (b) A, C (c) C, D (d) B, D
- 64. In the Meselson and Stahl experiment, E. coli was grown in a medium rich in 15NH4Cl. E. colicells were transferred to medium containing 14NH4Cl. The *E. coli* cells took 24 hrs to complete one generation. After few days the DNA were isolated from the culture and subject to density gradient centrifugation. The ratio of the intermediate density (15N/14N) DNA molecules and light density (14N/14N) DNA molecules was found to be 1:3. Following are the statements about the E. coli cultures.
 - A. At the time of DNA isolation the E.coli cells have completed 3rd generation.
 - B. At the time of DNA isolation the E.coli cells have completed 4^{th} generation.
 - C. The E. coli culture is 72hrs old at the time of DNA isolation.
 - D. The E. coli culture is 96 hrs old at the time of DNA isolation.

Which of the above statements are True ?

(a)	В	(b) D	(c)	A, C	(d) A, D
Giv	en the section A	and B.			
	Section-A			Section-B	
A.	DnaA		i)	Mis-match repair i	n prokaryotes
B.	dam methylase		ii)	Promoter recognition	on
C.	FEN1		iii)	Prevents associatio	n of ribosome subunits
D.	Initiation factor 3	(IF3)	iv)	Primer removal	
			V)	Recognition of orig	gin of replication
			vi)	Helicase enzyme	

65.

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Ider	ntify the correct match
(a)	A-v, B-i, C-iv, D-iii (b) A-ii, B-iv, C-vi, D-iii
(c)	A-v, B-i, C-iv, D-ii (d) A-v, B-v, C-iv, D-ii
	oramphenicol is a "broad-spectrum" antibiotic which inhibits protein synthesis in prokaryotes. Given
	by are a few statements regarding the mode of action of chloramphenicol.
	It binds the smaller subunit 30S and inhibits the binding of aminoacyl-tRNA.
	Chloramphenicol inhibits the peptidyl-transferase activity of ribosomes.
	Chloramphenicol binds to one of the domains of 23S rRNA.
D)	Chloramphenicol competes for binding with the E-site tRNA.
	ich of the following options describes correctly the mechanism of action of chloramphenicol?
	A and B only (b) B and C only
	A, B and C (d) B, C and D
. ,	A interference a mechanism of RNA mediated gene silencing in Eukaryotes. It has two pathways miRNA
	siRNA. Which of the following statements describe the miRNA mediated silencing of mRNA targets?
P.	Small RNA molecule is encoded by the genome.
Q.	Small RNA molecule is exogenous in origin.
R.	Processing of small RNA molecule require DROSHA in the Nucleus.
S.	It is cleaved by DICER to produce 24 nucleotide longsmall RNA molecule.
T.	The small RNA molecule has single target mRNA.
Wh	ich of the above statements are TRUE?
(a)	P, S, T (b) Q, R, S (c) P, R, S (d) only R
68. In a	mapping experiment involving three genes a, b, and c mutants in <i>Drosophila</i> . A three-point test cross
	s performed betweenAaBbCc X aabbcc. If a-b-c is the order of the genes, which of the following is
	e for the f1 progenies?
	The progenies with the genotype aaBbcc and AabbCc have smallest number.
	The progenies with the genotype AaBbCc and aabbcc have smallest number.
	The progenies with the genotype aaBbcc and AabbCc have largest number.
	The progenies with the genotype aaBbCc and Aabbcc have smallest number
	ross was made between pure wild type males and brown eyed, curled winged females of D. melanogaster.
	F1 females were test crossed. The F2 progeny obtained was as follows:
	d type 200
	own eyes, curled wings 170
	own eyes, normal wings 10
	rmal eyes, curled wings 20
	al 400
	e genetic distance (cM) between brown eye and curled wing loci is:
	7.5cM (b) 75cM (c) 150 cM (d) 25cM
	nplete the statement: Apoptosis is
	an energy dependent biochemical mechanism of programmed cell death.
	a genetically programmed process of deliberate suicide.
R.	characterized by morphological changes including cell shrinkage, blebbing, chromatin condensation and
a	nuclear fragmentation.
	comprises only effectors phase and degradation execution phage.
(a)	P and R (b) Q and S (c) P, R and S (d) P, Q and R

- 71. Consider following statements about geological time scale :
 - A. Precambrian is largest period is geological time scale
 - B. Evolution slowed down during Cambrian explosion
 - C. A large amount of biodiversity was lost at the end of Permian
 - D. No mass extinction in ongoing at the moment.

Chose correct statements

(a) A, C (b) A, D (c) C, D (d) B, C

72. At 25°C value of $[Q]_{222}$, the mean residue ellipticity at 222 nm are -33000 and -3000 deg cm²d mol⁻¹ for a polypeptide existing in α -helix and β -sheet structure respectively. If this polypeptide undergoes a two-state heat induced $\alpha \rightarrow \beta$ transition and a value of $[Q]_{222} = -18000$ deg cm²d mol⁻¹ is observed at 60°C, then this observation leads to the conclusion that the α -helix conversion to β -sheet is

- 73. Filteration of the blood in the glomeruli of the kidneys produces a nephric filterate with a conc. of glucose same as that of the blood (~ 5mM).
 - (i) What is the free energy required to move glucose back from the tubular fluid to the blood, when the conc. of glucose in tubular fluid has dropped to 0.005 mM.
 - (ii) The glucose is transported through Na⁺/glucose transporter and Na⁺ ions are moving along with the glucose from tubular fluid to the blood, releasing energy i.e. used in transport of glucose.

If the conc. of Na⁺ in tubular fluid is 140 mM and in blood is 10 mM, then the number Na⁺ ions needed to be transported to produce enough energy to transport glucose, will be given.

Faraday's constant (F) = 23,062 Cal/volt gm

Gas constant (R) = 2 Cal/mole/ K^{-1}

 V_{m} (Memb. potential) = -70 m Volts

- (a) (i) = 4.2 K Cal/mole, (ii) \cong 1.3 Na⁺ ions
- (b) (i) = 3.2 K Cal/mole, (ii) \cong 2 Na⁺ ions
- (c) (i) = 5.4 K Cal/mole, (iii) \cong 4 Na⁺ ions
- (d) (i) = 2.4 K Cal/mole, (iii) \cong 1.8 Na⁺ ions
- 74. A DNA molecule of size 7.5 kb was cut using restriction enzyme and only one band was obtained on agarose gel corresponding to the size of 3.75 kb. Consider the following statements.
 - P. DNA was linear.
 - Q. DNA was circular.
 - R. There was single restriction site.
 - S. There was two restriction sites.

Which of the above statements are true for obtaining aforesaid results?

- (a) P and Q (b) P and R
 - (d) P, Q and R
- 75. Consider the following recombinant crops and corresponding gene that was manipulated to create those crops:

Crops Genes

(c) P and S

P.	Bt Cotton	1.	Acetyl Co-A carboxylase
Q.	Roundup ready Soyabean	2.	Cry
R.	FlavrSavr	3.	Polygalactouronase
S.	Endless Summer	4.	Enolpyruvyl shikimate synthase
The	e correct match for the recombinant crops	and	the gene manipulated to generate them is
(a)	P1, Q2, R3, S4	(b)	P4, Q3, R2, S1
(c)	P2, Q4, R3, S1	(d)	P2, Q4, R1, S3



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Date : 08-12-2018

[ANSWER KEY]						
	PA	RT-A				
1 (2)	2. (a)	3. (d)	4. (a)	5. (b)		
1. (a)	. ,		, í			
6. (b)	7. (a)	8. (b)	9. (a)	10. (c)		
11. (b)	12. (b)	13. (b)	14. (a)	15. (c)		
	PA	RT-B				
16. (d)	17. (d)	18. (b)	19. (d)	20. (c)		
21. (d)	22. (c)	23. (c)	24. (c)	25. (c)		
26. (b)	27. (d)	28. (a)	29. (d)	30. (c)		
31. (b)	32. (b)	33. (d)	34. (c)	35. (c)		
36. (a)	37. (b)	38. (c)	39. (c)	40. (c)		
41. (b)	42. (a)	43. (d)	44. (a)	45. (a)		
46. (c)	47. (a)	48. (b)	49. (c)	50. (a)		
	DA	DT C				
	PA	RT-C				
51. (c)	52. (c)	53. (b)	54. (c)	55. (b)		
56. (c)	57. (c)	58. (b)	59. (d)	60. (b)		
61. (d)	62. (c)	63. (b)	64. (c)	65. (a)		
66. (b)	67. (c)	68. (a)	69. (a)	70. (d)		
71. (a)	72. (b)	73. (a)	74. (b)	75. (c)		



(11)