ANNEXURE – II

MODEL QUESTIONS – BOTANY

1.	Assertion (A): In the leaves of the sugarcane C ₃ and C ₄ cycles are spatially separated. Reason (R): Hatch and Slack pathway occurs in bundle sheath cells and Calvin cycle in mesophyll cells.										
	1) 2) 3) 4)		(R) are true, but (R) is false		correct explanation of not the correct explana						
2.	Arrange the following in the order of their occurrence in the life cycle of an angiospermic plant: I. Primary Endosperm Nucleus II. Microsporogenesis III. Xenogamy IV. Pericarp The correct sequence is:										
		•	e is:	21	111 1 157 11						
	1) I, III,			2)	III, I, IV, II						
	3) II, II	II, I, IV		4)	IV, I, II, III						
3.	synthe 1) ATO		ription will hav ATT		eotide sequence TAC ucleotide sequence as: 2) TAC AAT CGG 4) TUC UUT CGG	AAT CGG TAA, the new stand TAA TUU					
4.	Study	the following li	sts:								
		List I		List II							
	A) Spa	adix		l.	Allium						
	B) Um	ibel		II.	Tridax						
	C) Spil	ke		III.	Cocos						
	D) He	ad		IV.	Achyranthus						
				V.	Hibiscus						
	The co	rrect match is:									
		(A)	(B)	(C)	(D)						
	1.	1	IV	V	II						
	2.	IV	1	Ш	V						
	3.	II	III	IV	I						
	4.	III	I	IV	II						
5.	Prokaryotic cell possesses the following:										
	I. Chl	oroplast			II. Cell wall						
	III. 70	S ribosomes			IV. Well defined nucleus						
	The co	rrect combina	tion is:								
	1) I an	ıd II	2) II and III		3) I and III	4) II and IV					

MODEL QUESTIONS – ZOOLOGY

In human being acromian process is presnt on:

1.

1.

2.

(1) 12

	1) Sternum	J	2) Skul	I	3) Pect	toral girdle		4) Pelvic girdle	
2.	Identify the son A) Tibia Correct sequence 1) B-A-D-E-C	B) Cox ence is		C) Tars		ach from base to D) Fem 3) A-D-C-B-E	ur	the leg E) Trochanter 4) A-C-B-E-D	
	1) b-A-D-L-C		2) b-L-	D-A-C		3) A-D-C-B-L		4) A-C-B-L-D	
3.	Multiple selection type Choose the correct statements with I A) Shell may be external and multich B) It includes Cuttle fishes C) Development includes Veliger larv D) Blood circulation is open type 1) All 2) A & B						ods:	4) A & D	
	- //		2,710			3,000		1,71 & 5	
4.	Matching typ SET-I Scientific nam A) Pinctada B) Mytilus C) Dentalium D) Aplysia Identify the contact 1) 2) 3) 4)	nes	natch be B IV I IV V	etween C II II I	II) Sea III) Pea IV) Ma V) Ship	orl Oyster Irine mussel D worm	es		
5.	Statement and Reason type Statement (S) During favourable conditions Euglena undergoes longitudinal binary fission. Reason (R) Binary fission in Euglena is described as symmetrogenic division as daughter individuals are like mirror images. 1) Both S and R correct and R is the correct explanation to 'S'. 2) Both S and R are correct but R is not correct explanation to 'S'. 3) S is correct but R is not correct. 4) S is not correct but R is correct.								
				МО	DEL QU	IESTIONS – PHY	SICS		

(3)18

particle at the instant its x-coordinate is 24m becomes

(2)6

A particle starts from origin at t=0 with a velocity of 10 i m/s and moves in x-y plane under the action

of force which produces a constant acceleration of (2i + 3j) m/s². The y – coordinate in meters of the

When 0.2 kg of ice at 0° C mixed with 0.5 kg of water at 60 $^{\circ}$ C in a container , the resulting temperature is 10 $^{\circ}$ C. The heat of fusion of ice (S_{water} = 4.186 J/kg/K)

(4) 3

3.	5 bulbs each of 100 W are connected across 220 V power supply for domestic application. If each unit costs Rs. 4 then the cost per day in Rs. is										
	(1) 48			(2) 24	4	(3) 96		(4) 12			
4.	A solenoid of length 1.0m has a radius of 1cm and is made up of 1000 turns. It carries a current A. The magnitude of the magnetic field inside the solenoid in Tesla is (1) $\pi \times 10^{-3}$ (2) $\pi \times 10^{-4}$ (3) $\pi \times 10^{-6}$ (4) $\pi \times 10^{-5}$										
	(1) /(X 10		(2) 10	X 10	(5) /(X 10		(4) /(x 10			
					MODEL QUI	ESTIONS – CHE	MISTRY				
1.	Which one of the following has stable electronic configuration?										
	(1) N			(2) C		(3) F		(4) Al			
2.	Which	Which one of the following exhibits acidity?									
	(1) R-			(2) R	=	(3) R-X		(4) C ₆ H ₅ -OH			
3.	Assertion (A): Carbonyl compounds undergo nucleophilic addition reactions. Reason (R): Carbonyl group is non-polar. The correct answer is: (1) Both (A) and (R) are true and (R) is the correct explanation of (A) (2) Both (A) and (R) are true and (R) is not the correct explanation of (A) (3) (A) is true but (R) is not true (4) (A) is not true but (R) is true										
4.	Matci	i the io	llowing: LIST				LIST II				
	(A) Pa	cking e			structure		(1) 2				
	(A) Packing efficiency in ccp structure(B) Number of atoms in bcc unit cell(C) Packing efficiency in simple cubic structure(D) Number of atoms in fcc unit cell						(2) 4				
							(3) 52.	4%			
							(4) 68.0				
	. ,						(5) 74.0				
	The co	orrect a	nswer i	s:							
		(A)	(B)	(C)	(D)						
	(1)	5	4	3	2						
	(2)	3	2	1	4						
	(3)	5	1	3	2						
	(4)	4	1	2	3						

(2) 2.62 X 10⁵ J/kg (4) 5.23 X 10⁵ J/kg

(1) 1.31 X 10⁵ J/kg (3) 10.46 X 10⁵ J/kg