

Guru Aanklan

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: 70

: 3 Hrs

and	HSC EXAMINATION SET - A			M.Marks: Duration:	
est	BIOLOGY				
	;	SECTION-I (BOTAN)	Y)		
-	ct and write the recreatives for each	nost appropriate answ ch sub-question:	wer from the	given (7)	
1) In albu	uminous seeds the	e endosperm presen	t is		
		ns b) Present in the f		perm	
c) Ab	sent	d) Present in the f	form of nucle	eolus.	
2) Guano	deposits are give	en hv			
	arine fish				
c) Marine birds			als		
a) Cr		er during meiosis. Recon c) M of wheat is	uton	d) Gene	
		b) Pusa Subhra			
c) Pus	a Gaurav	d) Himgri			
5) Papaya	a is an example o	of			
	nogamy	b) Gietonogamy			
c) Au	togamy	d) Hybridization			
6) In Mic	helia, self pollin	ation is avoided by			
	togyny	b) Unisexuality			
c) Sel	f sterility	d) Protoandry			
-	oatial patterns in a organism is	an ecosystem determ	ined by the h	neight	
	nation b) Niche	c) Stratification	d) Gradatio	on	

Q2. A. Answer in one sentence			
 What is the name of the microbe used in the wine industry What is the meaning of pure line What is cryptogram What is epihdrophily What is leaching What is VAM 			
Q2. B. Sketch and label clover leaf label of t- R.N.A.	(2)		
 Q.2. C. Answer any two of the following: a) Explain in brief the role of ozone b) Explain the significance of polar nuclei c) Explain how photo respiration is avoided in C₄ plants Q3. A. Answer in one sentence a) State and explain Mendel's second law of Inheritance 			
b) Give the characters of Genetic codec) Write a note on Gano-bacterial Fertilisers			
Q3. B Sketch and label v.s. of mature anatropus ovule	(3)		
Q4. Give brief account of replication of bacetriophage			
OR Describe non-cyclic photophosphorylation with diagramatic Representation.	(7)		

SECTION II (ZOOLOGY)

Q5. Select and write the most appropriate answer from the given alternatives for each sub-question: (7)						
1) Passive immunity is obtained by injectinga) Antigensb) Antibodiesc) Antibioticsd) Vaccines.						
 2) Failure of descending testes into the scrotum is known as a) Cryptorchidism b) Tubectomy c) Castration d) Masorctium 						
 3) Which of the following is not X – linked disorder a) Haemophilia b) Night Blindness c) Myopia d) Hypertrichosis 						
 4) Key factor of D.N.A. profiling is a) Sequence of nucleotides b) D.N.A. isolation. c) VNTR d) RFLP 						
5) Bird flu is caused by a) Bacteria b) Protozoans c) Fungus d) Virus						
6) Anti serum has a) Antigen b) Antibody c) W.B.C. d) R.B.C.						
7) W.B.C. with a kidney shaped nucleus is a) Eosinophil b) Neutrophil c) Lymphocyte d) Monocyte						
26. A. Answer in one sentence						
 Why urethra is also called urogenital duct. What was the cranial capacity of cro-magnan man. What is vaccine. What are transgenic animals. Name the causative agent of typhoid. What is lymph 						

Q6. B. Sketch and label X & Y chromosomes to show non homologous parts of them.	(2)
 Q.6. C. Answer any TWO of the following: a) What is age structure? Explain b) Give the functions of cerebral hemispheres c) What is the result of hybridization with respect to D.N.A finger printing. 	(2) (2) (2)
 Q7. A. Answer any TWO of the following: a) What is air pollution? Mention hazards of air pollution. b) What is filariasis? Explain signs and symptoms c) Explain the characteristics of Propliophitecus, Dryphitecus and Ramaphitecus. 	(6)
Q7. B Sketch and label the diagram illustrating formation of urine	(3)
Q8 . Define reflex action. Explain the mechanism of reflex action and give The types of reflex actions with significance.	(7)
<u>OR</u>	
What is menstrual cycle and Explain the various phases of it.	(7)