THE MAN A BAD LINE AND A STANDARD TO STAND	Roll No:						Answer Sheet No:
	Signature of Candidate:				Signature of Invigilator:		

Federal Board HSSC-I Examination Biology Model Question Paper

			Biology Model Que	estion Pap	er				
			SECTION	<u> – A</u>					
Time	allowe	ed: 25	minutes		Marks: 17				
Note:	answer handed	red on	compulsory and comprises page the question paper itself. It shou to the Centre Superintendent. D il.	ld be compl	eted in the first 25 minutes and				
Q.1	Encircle the correction option i.e. A $/$ B $/$ C $/$ D. All parts carry equal marks.								
	i.	A.	having foreign DNA incorporate Transduced plants	B.	Transgenic plants				
		C.	Transformed plants	D.	Xerophyte plants				
	ii.	Heat v A. C.	raporization is expressed as calor Litre Gram	ies per B. D.	vaporized. Kilogram Kilometre				
	iii.	Who u A. C.	used the technique of X-Ray diffi Erwin Chargaff M. Wilkins and R. Franklin	action to de B. D.	termine the structure of DNA? Watson & Crick Alfred Harshey & Martha Chase				
	iv.	RNA i	is synthesized by DNA in a proce Replication Reverse Transcription	ess known a B. D.	s: Transcription Conjugation				
	V.	Thylal A. C.	koids are found in: Chloroplasts Mitochondria	В. D.	Golgi complex Nucleus				
	vi.	The vi A. C.	rus is: Facultative parasite Saprophyte	B. D.	Obligate intracellular parasite Ectoparasite				
	vii.	Hetero A. C.	ocysts are helpful in the fixation of Bacteriophages Fungi	of atmosphe B. D.	ric nitrogen in: Cyanobacteria Land plants				
	viii.		of the following organisms is us otosynthesis as well as an alterna Plasmodium Chlorella		-				

Turn Over

DO NOT WRITE ANYTHING HERE

	ix.	Sexu	al phase has not been observed in:			<u></u>				
		A.	Zygomycota	B.	Basidiomycota					
		C.	Ascomycota	D.	Deuteromycota					
	х.	Game	Gametophyte is the dominant plant body in:							
		A.	Marchantia	B.	Rosa indica					
		C.	Adiantum	D.	Pinus					
	xi.	Whic	ch one of the following is not an euth	erian ma	ammal?					
		A.	Whale	B.	Opossum					
		C.	Elephant	D.	Horse					
	xii.	Нера	tic and pancreatic secretion are also	stimulat	ed by a hormone called:					
		A.	Insulin	B.	Oxytocin					
		C.	Secretin	D.	Testosterone					
	xiii.	Tinv	thin walled ducts called parabronchi	are pres	sent in the lungs of:					
	11111	A.	Cows	B.	Birds					
		C.	Man	D.	Frog					
	xiv.	Whic	Which one group of the following organisms has not double circuit heart?							
	A1 V •	A.	Reptiles	B.	Birds					
		C.	Fishes	D.	Mammals					
	XV.	Antic	serum is a serum containing:							
	AV.	Anus A.	Antibiotics	В.	Antibodies					
		C.	Antigens	C.	Antiseptic					
			_		-	11				
	xvi.	What type of pressure moves the sucrose and other substances in the sieve tube cells and then moves to sink?								
		A.	Atmospheric pressure	В.	Root pressure					
		C.	Hydrostatic pressure	D.	Blood pressure					
			•		Diood picoodic					
	xvii.	Guttation is the loss of liquid water through:								
		A.	Phloem	В.	Cambium					
		C.	Hydathodes	D.	Endodermis					
_										
For E	xamine	er's us	e only							
					Q. No.1: Total Marks:	17				
					•					
					Marks Obtained:					
					mans obtained.					



Federal Board HSSC-I Examination Biology Model Question Paper

Time allowed: 2.35 hours Total Marks: 68

Note: Sections 'B' 'C' and 'D' comprise pages 1-2 and questions therein are to be answered on the separately provided Answer Book. Use supplementary answer sheet i.e., sheet B if required. Write your answers neatly and legibly.

SECTION – B (Marks 21)

(Chapter 1-8)

- Q.2 Attempt any seven parts from the following. All parts carry equal marks. $(7 \times 3 = 21)$
 - i. Compare the various kinds of cytoskeleton.
 - ii. Differentiate between Glycosidic linkage and peptide bonding.
 - iii. Write down optimum pH of Pepsin, Sucrase, Enterokinase and Arginase.
 - iv. How does an enzyme accelerate a metabolic reaction?
 - v. Differentiate between:
 - Antiseptic and antibiotic
 - Capsid and capsomere
 - Foraminiferans and Actinopods
 - vi. Why kingdom Protista is regarded as polyphylectic group of organisms?
 - vii. How cloning is done in animals?
 - viii. Diagrammatically show the functions of Lysosomes in Eukaryotic cells.
 - ix. Show different steps of infectious cycle of HIV.
 - x. List land adaptations of Fungi.

SECTION – C (Marks 21)

(Chapter 9-14)

- Q.3 Attempt any SEVEN parts from the following. All parts carry equal marks. $(7 \times 3 = 21)$
 - i. Enlist steps which are adopted by plants for the evolution of seed habit.
 - ii. Compare coelomic characteristics of groups of kingdom animalia.
 - iii. What is mechanism of water flow from root to leaf in plants?
 - iv. Enlist all types of cells present in human blood along with their major functions.
 - v. What is the Action spectrum of photosynthesis?
 - vi. Enlist secretions of different organs of human digestive system.
 - vii. How do Cnidaria exhibit alternation of generation?
 - viii. Write a note on Respiratory organs of cockroach.
 - ix. How Glycolysis is linked with Kreb's cycle?
 - x. Draw the structural model of an antibody molecule.

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SECTION – D (Marks 26)

Note:	Attem	pt any TWO questions. All questions carry equal marks.	$(2 \times 13 = 26)$
Q.4	a. b.	Describe in detail the structure and types of bacterial cell wall. Which adaptations are required for aerial mode of life in birds	* *
Q.5	a. b.	How transport of respiratory gases takes place in humans. Describe non – cyclic phosphorylation.	(7) (6)
Q.6	a. b.	Describe the life cycle of Adiantum. What are the stages of Cardiac cycle? How it is controlled?	(7) (6)