THE STANDARD AND S	Roll No:		Answer Sheet No:	
	Signature of Candid	late:	Signature of Invigilator: _	

## Federal Board HSSC-I Examination Biology Model Question Paper

Biology Woder Question I aper									
SECTION – A									
Time allowed: 25 minutes Marks: 17									
Note:	answer handed	red on t	compulsory and comprises pages the question paper itself. It should to the Centre Superintendent. Deletel.	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.	Plants A. C.	having foreign DNA incorporated Transduced plants Transformed plants	into their B. D.	cells are called: Transgenic plants Xerophyte plants				
	ii.	Heat v A. C.	raporization is expressed as calories Litre Gram	B. D.	vaporized. Kilogram Kilometre				
	iii.	Who u A. C.	used the technique of X-Ray diffrac Erwin Chargaff M. Wilkins and R. Franklin	tion to de B. D.	termine the structure of DNA? Watson & Crick Alfred Harshey & Martha Chase				
	iv.	RNA i A. C.	is synthesized by DNA in a process Replication Reverse Transcription	known a B. D.	s: Transcription Conjugation				
	v.	Thylak A. C.	coids are found in: Chloroplasts Mitochondria	В. D.	Golgi complex Nucleus				
	vi.	The vi A. C.	rus is: Facultative parasite Saprophyte	В. D.	Obligate intracellular parasite Ectoparasite				
	vii.	Hetero A. C.	ocysts are helpful in the fixation of Bacteriophages Fungi	atmosphe B. D.	ric nitrogen in: Cyanobacteria Land plants				
	viii.		of the following organisms is used otosynthesis as well as an alternativ Plasmodium Chlorella						

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#### DO NOT WRITE ANYTHING HERE

ix. Sexual phase has not been observed in:  A. Zygomycota C. Ascomycota D. Deuteromycota  X. Gametophyte is the dominant plant body in:  A. Marchantia B. Rosa indica C. Adiantum D. Pinus  Xi. Which one of the following is not an eutherian mammal?  A. Whale B. Opossum C. Elephant D. Horse  Xii. Hepatic and pancreatic secretion are also stimulated by a hormone called:  A. Insulin B. Oxytocin C. Secretin D. Testosterone  Xiii. Tiny thin walled ducts called parabronchi are present in the lungs of:							
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viii Tiny thin walled ducts called parabronchi are present in the lungs of							
A. Cows  B. Birds							
C. Man D. Frog							
xiv. Which one group of the following organisms has not double circuit heart?							
A. Reptiles  B. Birds							
C. Fishes D. Mammals							
xv. Antiserum is a serum containing:							
A. Antibiotics B. Antibodies							
C. Antigens C. Antiseptic							
	What type of pressure moves the sucrose and other substances in the sieve tube cells						
and then moves to sink?							
A. Atmospheric pressure  B. Root pressure							
C. Hydrostatic pressure D. Blood pressure							
xvii. Guttation is the loss of liquid water through:							
A. Phloem B. Cambium							
C. Hydathodes D. Endodermis							
For Examiner's use only							
•	15						
Q. No.1: Total Marks:	17						
Marks 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 <b>TWO</b> questions. All questions carry equal marks.	(2 ×	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		(7) (6)
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)

# Result.pk