BOARD QUESTION PAPER: MARCH 2014 BIOLOGY – II (12th Sci., HSC, Maharashtra)

This question paper is an extract from our title "Perfect Biology - II" for Std. XII Science, MH Board. Visit www.targetpublications.org to know more.

Note:

- i. Answers to Section-I and Section-II should be written in **Two Separate** answ
- ii. Questions from Section-I attempted in the answer book of Section-II and vi not given any credit.
- iii. All questions are compulsory.
- iv. Draw neat and labelled diagram wherever necessary.
- v. Figures to the right indicate full marks.
- vi. Answer to every new question must begin on a new page.





SECTION – II [ZOOLOGY]

Q.5.		ct and write the most appropriate ar question:	iswer	from the given alternatives for each	[7]
	i.	The most common types of fossils are(A) moulds (C) actual remains	(B) (D)	casts models	
	ii.	Which of the following trait is never observ (A) Hypertrichosis (C) Colour blindness	(B)	numan females? Haemophilia Myopia	
	iii.	Safety of polio vaccine is tested on transger (A) pig (C) fish	(B)	rabbit mice	
	iv.	Mucous membrane trapping the microbes at (A) physiological barrier (C) phagocytic barrier	(B)	a physical barrier inflammatory barrier	
	v.	Conversion of ammonia into uric acid occu (A) ornithine cycle (C) Ionosinic pathway	(B)	ugh guanine cycle Kreb's cycle	
	vi.	Spinal cord and sympathetic ganglion of (A) ramus ventralis (C) ramus dorsalis	(B) (D)	ramus communicans connective	
	vii.	Pregnancy in second trimester is maintained (A) LH (luteinizing hormone) (C) estrogen	•	progesterone HCG (human chorionic gonadotropin)	
Q.6.	(A)	Answer the following in 'one' sentence ea i. What is 'gene flow'? ii. Why do sex linked traits appear more iii. What is 'restriction digestion'? iv. What is the use of tissue plasminoger	in ma	les than in females?	[12]

- Name the type of animal breeding carried out to produce a mule.
- Why is zona pellucida retained around the egg till it reaches uterus? vi.
- Draw a neat and well labelled diagram of human excretory system.

(2) (4)

- Attempt any TWO of the following **(C)**
 - i. Write a note on desert adaptations.
 - ii. Give the economic importance of fisheries.
 - iii. Distinguish between X and Y chromosomes.
 - iv. Give applications of a vaccine.

Q.7. (A) Attempt any TWO of the following:

(6) [9]

- i. With the help of a chart, explain the method of sex determination in honeybees.
- ii. Describe the structure of an antibody.
- iii. Distinguish between the following: (Give at least one point of distinction for each pair).
 - Natality and Mortality.
 - (b) Competition and Mutualism.
 - Agricultural water pollution and Shipping water pollution. (c)
- (B) Sketch and label V.S. of human eye.

(3)

[7]

Q.8. Draw a neat and well labelled diagram showing T.S. of ovary and describe the menstrual cycle in human female.

OR

With the help of a well labelled diagram describe the internal structure of human heart.