Total No. of Printed Pages-4

HS/XII/SC/Bio-Zoo/OC/21

2021

BIO-ZOOLOGY

(Old Course)

(Theory)

Full Marks: 35

Time : $1\frac{1}{2}$ hours

The figures in the margin indicate full marks for the questions General Instructions :

- (i) Write all the answers in the Answer Script.
- (ii) Attempt all parts of a Group serially in one place.
- (iii) All questions are compulsory.
- (iv) This question paper consists of 5 (five) Groups—A, B, C, D and E.

Group—A consists of 4 questions (multiple-choice type). Each question (Q. Nos. 1-4) carries 1 mark.

Group—B consists of 4 questions (very short-answer type). Each question (Q. Nos. **5–8**) carries 1 mark and to be answered in *one* sentence.

Group—C consists of 4 questions (short-answer type—I). Each question (Q. Nos. **9–12**) carries 2 marks and to be answered in 20-30 words.

Group—D consists of 3 questions (short-answer type—II). Each question (Q. Nos. **13–15**) carries 3 marks and to be answered in 30-40 words.

Group—E consists of 2 questions (long-answer type). Each question (Q. Nos. **16** and **17**) carries 5 marks with alternatives to be answered in 60-80 words.

/124

(2)

GROUP—A

Choose and write the correct answer of the following :

1.		ich one of the following is released from the ovary ring ovulation?	1
	(a)	Primary oocyte	
	(b)	Secondary oocyte	
	(c)	Oogonium	
	(d)	Embryo	
2.	Ma	laria is caused by	1
	(a)	Entamoeba sp.	
	(b)	Ascaris sp.	
	(c)	Plasmodium sp.	
	(d)	Wuchereria sp.	
3.	Mo	lecular scissor which cuts DNA at specific site is	1
	(a)	pectinase	
	(b)	polymerase	
	(c)	restriction endonuclease	
	(d)	ligase	

HS/XII/SC/Bio-Zoo/OC/21/124

[Contd.

(3)					
4.	Kaziranga National Park is located in	1			
	(a) West Bengal				
	(b) Assam				
	(c) Meghalaya				
	(d) Odisha				
	Group—B				
5.	Name the hormone produced by corpus luteum.	1			
6.	Define vaccine.	1			
7.	Give the full form of VNTR.	1			
8.	Name the gas that contributes mainly to global warming.	1			
GROUP—C					
9.	Draw a labelled diagram of a mammalian sperm.	2			
10.	Why did Mendel select garden pea for his experiment?	2			
11.	What is the full form of AIDS? Name its causative agent.	+1			
12.	What is a biosphere reserve? Name one biosphere reserve in India.	+1			
HS/X	XII/SC/Bio-Zoo/OC/21 /124 [P.7	Г.О.			

(4)

GROUP-D

13.	What are the different characteristics of cancer cells?	3
14.	Give the salient features of human genome project.	3
15.	State Mendel's law of segregation. Explain it with the help of a monohybrid cross.	1+2
	GROUP-E	
16.	With suitable diagrams, describe the process of oogenesis in human female.	2+3
	Or	
	What is menstrual cycle? Briefly describe the various phases of this cycle.	1+4
17.	List the four postulates of Lamarckism. Give one example given by Lamarck in support of his theory.	4+1
	Or	

What is haemophilia? With the help of a cross, explain why this genetic disorder occurs more in male individuals than females. 1+4
