T(III)-Zoology-H-6 (Unit-II)

2021

ZOOLOGY — HONOURS

Sixth Paper

(Unit - II)

Full Marks : 50

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

Answer any ten questions.

1.	(a)	Briefly describe the rearing room of sericulture.	
	(b)	Name a bacterial disease of silkworm and its causative agent.	3+2
2.	(a)	Define Kusmi and Rangeeni strains of lac insects.	
	. ,	What are shellac and seed lac?	3+2
3.	Desc	ribe the structure of a Newton Box with suitable diagram.	5
4.	(a)	What is the importance of polyculture in aquaculture and fisheries?	
	(b)	Give an example of successful hybridization of Indian major carps.	3+2
5.	(a)	Define adherent and suspension cell culture.	
	(b)	Comment on use of serum and antibiotic in cell culture.	3+2
6.	(a)	What is continuous cell culture?	
	(b)	Write the difference between Ex-vivo & In-vivo gene therapy.	2+3
7.	Wha	t is 'mother of pearl'? Briefly describe natural pearl formation mechanism.	1+4
8.	(a)	Comment on semi-intensive and extensive prawn cultures.	
	(b)	Mention four desirable traits of honey bee species to be the best choice for bee keeping.	3+2
9.	Sche	matically describe the process of hypophysation.	5

Please Turn Over

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(2)

10.	(a)	Write the composition of RPMI-1640 cell culture media.	
	(b)	Define major, minor and accidental pest with example.	2+3
11.	, í	Mention use of transgenic chicken. Define EIL and ETL.	2+3
12.	Writ	e a short note on: DNA micro-injection.	5
13.	Write notes on gene augmentation therapy and anti-sense therapy.		
14.	Comment on merits and demerits of composite fish culture.		
15.	Wha	t do you mean by Broiler and Layer strains? Give one example from each.	(1½+1)×2