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Ro	ll No.		[Total No. of Pages: 2
		PGIIIS-N 1546 B-14 M.Sc. IIIrd Semester (CBCS) Degr Zoology (Biology of Reproduction Paper - HCT-3.1 (New)	ee Examination
Tim	ne:3 F	Iours	Maximum Marks: 80
Insi	tructio	ons to Candidates:	
	i)	Answer all questions.	
	ii)	Illustrate your answer wherever necessary.	
1.	Ans	wer the following in brief	(8×2=16)
	a)	Delayed implantation	
	b)	Vas deferens	
	c)	Lueteogenesis	
	d)	Milk efection	
	e)	Surrogate pregnancy	
	f)	Cumulus oophorus	
	g)	Prostaglandins	
	h)	Coagulatory gland	
2.	a)	Describe histo architecture of overy and function	ns. $(16 \times 1 = 16)$
		OR	하는 사람들이 많은 사람들이 되었다. 그런 그렇게 취해 없는 다음 기가 있는 사람들이 있는 사람들이 되었다. 그런 사람들이 되었다. 이 사람들이 있는 사람들이 있는 사람들이 있는 것이 없는 것이 없다.
	b)	Hormonal regulation of male reproductive organ	${f S}_{f c}$
3.	a)	Explain sequence of events during implantation.	(16×1=16)
		OR	
	b)	Discuss the various models of parturation and fac-	ctors involved in the process.
P(C)	IIIS-N	1546 B-14/2015 (1)	[Contd

4. Write explanatory notes on any two of the following $(2 \times 8 = 16)$ Biology of spermatozoa. a) b) Physiological role of androgens. c) Estrous cycle. 5. Write short notes on any four of the following $(4 \times 4 = 16)$ a) **IVF** b) Decidual cell reaction c) Mammary glands. d) Gestational carrier. Progesteron. e) f) Growth factors.

Roll	No.		

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PGIIIS-N 1550 B-14 M.Sc. IIIrd Semester (CBCS) Degree Examination Zoology (Environmental Biology) Paper - SCT-3.1 (New)

Time: 3 Hours

Maximum Marks: 80

Instructions to Candidates:

- i) Answer all questions.
- ii) Illustrate your answer wherever necessary.
- 1. Answer the following in brief

 $(8 \times 2 = 16)$

- a) Solar flux
- b) BOD
- c) Bioaccumulation
- d) Stratosphere
- e) Micro-nutrients
- f) II Law of thermodynamics
- g) Biome
- h) Primary producers.
- 2. a) Explain how energy flow take place in an ecosystem

 $(16 \times 1 = 16)$

OR

- b) Write detail account on source of air pollution & comment on control measures.
- a) "Over population is the main cause for all environmental problems in recent times".
 Discuss. (16×1=16)

OR

b) Solid waste management.

4.	Write explanatory notes on any two of the following		
	a)	Thermal pollution	
	b)	Acid Rain	
	c)	Hydrological cycle.	
5.	Write short notes on any four of the following		
	a)	Green house effect	
	b)	Biogas	
	c)	Smog	
	d)	Ozone layer	
	e)	Earth quake	
	f)	Biological indicators.	

 $(2 \times 8 = 16)$

 $(4 \times 4 = 16)$

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PGIIIS-N 1548 B-14 M.Sc. IIIrd Semester (CBCS) Degree Examination Zoology (Animal Physiology) Paper - HCT-3.2 (New)

Time: 3 Hours

Maximum Marks: 80

Instructions to Candidates:

- i) Answer all questions.
- ii) Illustrate your answer wherever necessary.
- 1. Answer the following in brief

 $(8 \times 2 = 16)$

- a) Respiratory organs
- b) Homeostasis
- c) Allosteric enzymes
- d) Sorting of sensory information
- e) Hibernation
- f) Bhore effect
- g) Problems of Diving
- h) Uricotelic animals.
- 2. a) What is Respiration? Explain the mechanism of Respiration in eggs. $(16 \times 1 = 16)$

OR

- b) Explain types and mechanics of nitrogen excretion in animals.
- 3. a) Discuss the general principles of circulation with reference to vertebrates. $(16 \times 1=16)$

OR

b) Explain the transmission of nerve impulses in nerves and across synapses.

4.	Write explanatory notes on any two of the following		
	a)	Enzymes Kinetics	
	b)	Methods of feeding & Digestion	
	c)	Transmission of nerve impulse.	
5.	5. Write short notes on any four of the following		
	a)	Types of sense organ	
	b)	Respiration in birds	
	c)	Problems associating with diving	
	d)	Chemical defense	
	e)	Effect of high altitude	

Air breathing vertebrates.

f)

 $(2 \times 8 = 16)$

 $(4 \times 4 = 16)$

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PGIIIS-N 1552 B-14 M.Sc. IIIrd Semester (CBCS) Degree Examination Zoology (Applied Zoology) Paper - OET-3.1 (New)

Time: 3 Hours Maximum Marks: 80

Instructions to Candidates:

- i) Answer all questions.
- ii) Illustrate your answer wherever necessary.
- 1. Answer the following in brief

 $(8 \times 2 = 16)$

- a) Muga silk
- b) White leghorn
- c) Operation flood
- d) Vermi protein
- e) Bivolatine
- f) Drone
- g) Rangeeni
- h) Murrah
- **2.** a) Discuss the commercial practice of sericulture.

 $(16 \times 1 = 16)$

OR

- b) Write detail account on different types of cow breeds & importance.
- 3. a) Explain breeds of poultry and economic importance

 $(16 \times 1 = 16)$

OR

b) Write account on practice of Lac culture.

4.	Writ	e explanatory notes on any two of the following	$(2 \times 8 = 16)$
	a)	Fur industry	
	b)	Api culture	
	c)	Importance of fisheries	
5.	Write short notes on any four of the following		
	a)	Swap buffalloes	
	b)	Artifical insemination	
	c)	Products of Dairy industry.	
	d)	Artifical hatching	
	e)	Pearl culture.	
	f)	Mori culture.	