## II Revision Examination - February 2023

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	ass: XII ıbject: Zoology				Marks: 70 Duration: 3 hrs			
	abjecti Zoology		Part - I					
Cł	hoose the best answei	r			15 x 1 = 15			
1.	Division of multinucleat	ted parent into many mu	ltinucleate daughter in	dividuals w	vith division of nuclei is			
	a. Sporulation	b. Plasmotomy	c. Strobilatio	n (	d. Multiple fission			
2.	Which of the following i	s correct?						
	i. Androgen Binding Protein is stimulated by testosterone.							
	ii. ABP helps in the process of spermiogenesis.							
	iii. LH acts on the Leydig cells and stimulates the synthesis of testosterone.							
	iv. Spermatogenesi							
	a. I, iii and iv	b. i and iv	c. ii and iii	d. all of t	these			
3.	3. The process which the sperm undergoes before penetrating the ovum is							
	a. Spermiation	b. Cortical reaction	c. Spermiogenesis	d. Capac	itation			
4.	Pain during urination an	nd bleeding between peri	iods are the major symp	otoms of				
	a. Genital warts	b, Syphilis	c. Genital herpes	d. Chlam	nydiasis			
5.	. Which of the following is true about Rh factor in the offspring of a parental combination Dd x Dd (both Rh							
	positive)?							
	a. All will be Rh pos	itive. b. Ha	lf will be Rh positive.					
	c. About ¾ will be F	Rh negative. c. Abo	out one fourth will be R	h negative.				
6.	Which of the following is the correct sequence of event with reference to the central dogma?							
a. Transcription, Translation, Replication b. Transcription, Repli				ication, Translation				
	c. Duplication, Tran	scription, Translation.	d. Replication, Trans	cription, Ti	ranslation.			
7.	The cluster of gene with	related functions are						
	a. Introns	b. Exons	c. Operons	d. Struct	cural gene			
8.	In which epoch higher p	lacental mammals were	appeared?					
	a. Oligocene	b. Pliocene	c. Miocene	d. Paleo	cene			
9.	Haemozoin is							
a. A precursor of haemoglobin			b. A toxin from Streptococcus					
c. A toxin from Plasmodium species			d. A toxin from Haemophilus species					
10	). Which of the following	in non - organ specific au	itoimmune disease?					
	a. Graves' disease	b. Addison's disease	c. Hashimoto's thyro	iditis (	d. Multiple sclerosis			
11	I. Which of the following	genetically engineered m		ster				
	a. Streptococci	b. Saccharomyces	c. Monascus	d. Clostr	ridium			

12. Vaccines that use compon	ents of a pathogenic o	rganism rather than the	whole organism are call	ed					
a. Subunit recombinar	nt vaccines	b. attenuated recombinant vaccines.							
c. DNA vaccines		d. Conventional vaccines							
13. Example for camouflage is									
a. Salamander	b. Stick insect	c. Chameleon	d. both b and c						
14. Which of the following is the best example of anthropogenic extinction?									
a. Labeo	b. Steller's Sea cow	c. Punitus	d. all of these						
15. The thickness of Stratospheric Ozone layer is measured in/on									
a. Sieverts units	b. Dobson units	c. Melson units	d. Beaufort Scale						
Part - II									
Answer any SIX of the follow	ving in short (Q. No 2	4 is compulsory)		$6 \times 2 = 12$					
16. Placenta is an endocrine tissue. Justify									
17. Chromosomal abnormalities can be detected even in embryonic stage. Define									
18. Write short notes on euthenics									
19. Differentiate template strand and coding strand									
20. What is speciation? Write its types.									
21. What is meant by Opsonisation?									
22. What is transgenesis?									
23. Write notes on Bergmann's rule									
24. What are the four major hotspots in India?									
Part - III									
Answer any SIX of the follow	ving in brief (Q. N	o. 33 is compulsory)		$6 \times 3 = 18$					
25. Write notes on parturition and lactation									
26. Explain the Dosage compensation – Barr body in brief									
27. What are the goals and methodologies of HGP?									
28. Write down the salient features mutation theory									
29. Explain the structure of HIV									
30. List out the advantages of biogas plants in rural areas									
31. Write any three advantages of cloning									
32. What are the effects of noise pollution?									
33. What are the three major population interaction?									

## Part - IV

Give detail answer  $5 \times 5 = 25$ 

34. Describe the various types of syngamy

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Describe the menstrual disorders.

35. Explain the packaging of DNA helix

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Describe the various steps involved in DNA fingerprinting technique.

36. Describe the three types of natural selection

Or

Write down the prevention and control of drug and alcoholic addiction.

37. Explain the structure of immunoglobulin in detail.

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Explain the ELISA in detail.

38. What are the adaptations terrestrial animals

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What are agrochemicals? Write their harmful effects to the environment.

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