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Number			

## SCIENCE (Theory) — Paper II (Botany and Zoology)

	( Dording		Salar Sa	
Time Allo	wed: $2\frac{1}{2}$ Hours ]		[ Maximum Marks : 100	
	SE	CCTION - A	A Where to the state of the sta	
		BOTANY Marks: 50)	euterom orgon et tejtW, -F1	
I. Cho	ose and write the correct ans	wer:	5 × 1 = 5	
1.	Vitamin $B_2$ is manufactured	d by the action	n of the war at the William	
	a) Clostridium	b)	Bacillus	
	c) Nitrobacter	d)	Pseudomonas.	
2. The concept of two pigment systems was proposed by				
	a) Arnon	b)	Hill	
	c) Emerson	d)	Calvin.	
3. The chromatids are joined at a particular point called				
	a) centromere	b)	telomere	
	c) centriole	d)	chromomere.	
4.	Excessive noise can lead to	affect		
	a) lungs	b)	ear and an amount of the second	
	c) nose	d)	muscles.	
5.	Seed is a fertilized		Barris Ba	

b)

d)

a) flower

androecium

ovary

ovule.

 $5 \times 1 = 5$ 

II. Fill in the blanks with suitable terms:

6. Streptomycin is obtained from ......

29. Give an account of hypogeal germination.

	7. The haploid set of chromosome is called	
	8. The pungent principle of ginger is	
	9. A special pattern of moist air movement is called	
	10. Crops cultivated for other than food are called crops.	
III.	Answer any five of the following questions in one or two sentences each:	1.0
	Service the service of the service o	= 10
	11. What is retting?	
	12. What is root pressure?	
	13. What is ATP?	
	14. What is tropic movement?	
	15. Mention the types of photosynthesis.	
	16. Define the term 'pomology'.	
	17. What is caryopsis?	
	18. How is neem used traditionally?	
	19. Define the term 'algal bloom'.	
	20. What are the types of agricultural practices in India?	*
IV.	Write short answers for any four of the following questions includes Question No. 22, which is compulsory, each in 100 words. Draw diag wherever necessary. $4 \times 5$	grams o = 20
	21. Write a note on the harmful activities of bacteria.	
	22. Draw a schematic representation of dark reaction of photosynthesis.	
	23. Distinguish between DNA and RNA.	
	24. Write the significance of mutation.	
	25. Explain the zoochory with examples.	
	26. What are the effects of acid rain?	
	27. Explain the rotation of crops.	
V.	Write a detailed answer for any one of the following questions in 200 words. Draw diagrams wherever necessary. $1 \times 10^{-2}$	about = 10
	28. Explain the physiological role of mineral elements.	

## SECTION - B

## ZOOLOGY

(Marks: 50)

VI.	Cho	oose and write the correct answer:				$5 \times 1 = 5$
	30.	In Frog's brain, the roof of the diencephalon is called				
		a)	infundibulum	b)	anterior choroid plexus	
		c)	pituitary gland	d)	lateral ventricles.	
	31. Glucose and amino acids are absorbed into the blood in the				nto the blood in the	
		a)	arteries	b)	veins	
		c)	capillaries	d)	lacteal.	
	32. The spermatogenesis is regulated by			etanjayun katha	av -	
		a)	nurse cells	b)	nerve cells	
		c)	fat cells	d)	bone cells.	
	33.	The	repeated culturing of tissue is			and we
		a)	callus	b)	totipotency	
		c)	sub-culturing	d)	pleuripotency.	
	34. Diabetes mellitus is caused due to the deficiency of				eficiency of	
		a)	aldosterone	b)	cortisone	
		c)	thyroxine	d)	insulin.	E . 1 - E
VII.			e blanks with suitable terms:			$5 \times 1 = 5$
		35. Non-healing wounds are called				
		38. Edward Jenner was the first one who developed the				
	55. The breakdown of organic materials of more					

## VIII. Answer any five of the following questions in one or two sentences each:

 $5 \times 2 = 10$ 

- 40. What is peristaltic movement?
- 41. Write the symptoms of Addison's disease.
- 42. Draw and label the structure of Lymph.
- 43. What is called Latebra?
- 44. Define Ovulation.
- 45. Expand:
  - a) IUCN
  - b) ZSI.
- 46. What is Wild Life?
- 47. What is meant by disease?
- 48. Define Polydipsia.
- 49. Write any two characteristics of fresh water.
- IX. Write short answers for any four of the following questions including Question No. 53, which is compulsory, in 100 words each. Draw diagrams wherever necessary.  $4 \times 5 = 20$ 
  - 50. Describe the pulmonary respiration in Frog.
  - 51. Give an account of the photoreceptors of Frog.
  - 52. Explain the structure of a tooth.
  - 53. Draw a neat labelled sketch of a mammalian egg.
  - 54. Enumerate the methods of restoring balance in Ecosystem. ( Any five points )
  - 55. Write short notes on Coronary Heart disease.
  - 56. Give an account of Dialysis.
- X. Write detailed answer for any *one* of the following questions in 200 words. Draw diagrams wherever necessary.  $1 \times 10 = 10$ 
  - 57. Explain the structure and functions of the adenohypophysis of pituitary.
  - 58. Describe the steps involved in the process of cloning mammals.