·		anno anno marchine de labalita anno 1964 <del>an</del> 1964 anno 1966.	Seriai No. Of the Roll No. (in figu		201	- 
			(in Words)			
Sup	erinte	endent Seal & Signature	.i FIC. No (For off	ice use only)		
			121601		FIC. No (For office v	ise only)
Fotal Tir Note: Th Cime: 20 M Note:	finutes Atte ever Sect Writ	Hours  e THREE Sections of this Pape  mpt all parts of Section – A  i if you have not attempted  flon-A and no credit will be  e the correct option i.e. A/B/C/	SECTION-A. A. Section —A must be any question. Over given to such answer the control of the cont	pt each according to to be return to the sup- erwriting/ defacing/	M erintendent after 20	farks: 18 minutes bited in
	í,	• •	3) 28	(C) 8	(D) 12	<u>H</u>
	ii.	(A) Spondylosis (E	o pain, weakness, numbi 3) Scintica	ess or Tingling in the 1 (C) Arthritis	eg . (D) None of them.	B
	iil.	What does not happen during it (A) Ribs move forward (B)				B
			O) Intercostals musules (		•	
	iv.	The most important harmone in (A) Oxytocin (F	i initiating and maintain 3) Prolactin	g tactation after birth is (C) FSH	(D) Estrogen	B
	٧.	The most toxic metabolites in the (A) Fats (E	he blood is the origin of 3) Carbohydrate	which type molecule _ (C) Protein	(D)Nucleic acid	
	vi.	Hypercatecemia is mainly cause (A) Adrenatine (E	es due to over secretion  3) Nor-Adrenaline	of (C) Glucagon	(D) Parathormone	
	vii.	The disorder in which bones are (A), Osteomalocia (E	e porous and thin but no	rmal composition is (C) Rickets	(D) Arthritis	
	viii:	Resting membrance potential of (A) -90 mv (E	f neuron is 3) -60 mv	(C) -7 mv	(D) -80 mv	[c]
	łx.	Kidney receive (A) 20 (E	% of blood co	ming from heart. (C) 40	(D) 25	A
	х.		r receive the stimulus of	pain (C) Mechanoreceptor	(D) Chemoreceptor	A
	xi.	<del></del>	in abnormal thickness of b) Acromegaly		)) Arthritis	$\Box$ B
	xii.	The measurement of human cm (A) Crown-Rump measurem		ocks) is known as (B) Rough measureme	ent .	A
	'	(C) Correct measurement	• •	(D) Approximate mea	surement	
	xiii.	• •		• •	(D) 62	
	xiv.	Myoglobin has a special function (A) It breaks down glycoget	on in muscle n (B) It holds a reserve s	supply of oxygen in the	muscle .	B
		(C) It is contractile protein		(D) None of these		
	XV.	HBV vaccines are(A) Live (B	vaccines, 3) Killed	(C) Subunit	(D) Toxoid	C
-	xvi.	Culturing of the cells for their re (A) Organ (B	e-aggregation to form a		resentculture . (D) cell	B
	xvii.	The cause of stone cancer is  (A) Global warming (B)	l) Acid rain	(C) Ozone layer (I	)) Green house	B
	xylii	Permanent removal of standing (A) Forestation (B)	forest is	(C) Reforestation	(D) All of these	B

## 121601

## PIOLOGY (Fresh) - II

Note: Time allowed for section B and C is 2 hours and 40 minutes.

Marks: 40 SECTION "B" Attempt any TEN Parts out of the tollowing. Each Part carries equal marks. П. Differentiate between Osmoconfermers and Osmoregulators?. i. Differentiate between Osteoblasts and Osteocytes? ij. What are the causes of Kidney stones? iii. What is biological clock? iv. Describe the structure of a typical neuron? What is the Endosymbiosis view of Eukaryotic origin? Briefly describe Hyperthyroidism and Hypothyroidism? vii. Briefly describe placentation in human. viii. Describe the causes and risk factors of pneumonia? ix. Differentiate between sympatric and allopatric speciation? x. What are the five major causes of evolution accepted by the Modern theory? хi. Write down the steps of Nitrification? xii. xiii. What are restriction endonucleases? Marks: 27 SECTION "C" Note: Attempt any THREE questions of the following. Each question carries equal Marks. Elaborate Meselson and stahl to justify the semi-conservative replication as a correct model of replication. IV. Give a detailed account of development of human embryo. What is sex-linkage? Give a detailed account on sex-linkage in Drosophila? ٧. VI. Write a note on any two of the following.

(a) Mendal's law of segregation

(b) Formation of Recombinant DNA

(c) Gene therapy