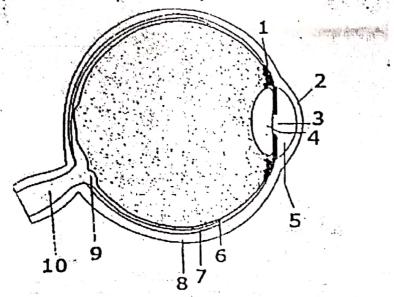
CAMPION SCHOOL, MUMBA PRELIMINARY EXAMINATION.

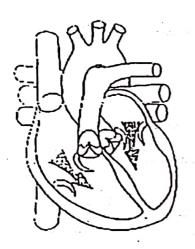
Std. X	Date: 04/01/2019.	Sub: Biology	Time: 2 hours	Marks: 80
	Answer to this pape	r must be written on the p	aper provided separately	
	You will NOT	be allowed to write during	the first 15 minutes.	
. 1	This time is to be spent in reading the question paper.			
F. 7	The time given at the head	d of this paper is the time	allowed for writing the	inswer.
		uestions or parts of questi		
		SECTION - I (MARKS	5-40)	
	Att	tempt all questions in this		; :
Q1. A.	Fill in the blanks: [Write the e	ntire statement and underl	ine the blank]	[5]
J.	Stroma is the matrix of the	as well as the	spongy body of the	,-,
ij.	Tunica externa is the scier	tific term for the outermo	st layer of the	
∙ijI.	The fovea centralis is loca	ted at the centre of the		
iy.	The vestibular canal of the	e ear is filled with		
Q1/B. N	Match the columns: [Rewrite	Column A and match with	the right option from C	Jolumn B1 [5]
Column	A	Column B		
i. JAA		a. Hgh		
ii. Soma	totropin	b. Apical domin	nance.	
iii. Speri		c. Hammer		1
iv. Malle	eus	d. Pesticide		
v. DDT		e. Male gamete		
O				d.
Q1. C. S	tate true or false. If false corr	ect the statement by chang	ging only the underlined	word/s. [5]
i.j.	The uterus is called the bir			
Vii.	Osmosis is termed as activ			
liń.	Transpiration is the loss of	cell sap from any cut or i	njured part of a plant.	
٤v.	The <u>auditory canal</u> of the e		· ·	
ist.	Heterotrophs are organism	s that prepare their own fo	ood.	* 1
Q1, D. C	ross the odd term out. State the	he category of the others.	·	[5]
J.	Auricle, ventricle, ossicles,		C ≱	[0]
(F)	Hypothalamus, infundibulum, oviduct, fallopian tube.			
iii.	Auricle, ventricle, ossicles, auditory canal. Hypothalamus, infundibulum, oviduct, fallopian tube. Mg, C, Na, H, O, N. PCT, DCT, DPT, LOH Phototropism, chemotropism, hydrotropism, somatotropin. Name the following: The pigment found in the choroid. The pigment found in the red or orange flowers The pigment found in the urine.			
υν.	PCT, DCT, DPT, LOH		7 (EX.)/(EX.)/(-1.)	
w.	Phototropism, chemotropis	m hydrotronism somate	O. 7 6 6	
		m, rejurotropism, somato	mobin. O S X S Z	S
01. E. Na	ame the following:		Ra. 189. 189. 189. 189.	,
i.i.	The pigment found in the c	hanaid	3.2 E E	[5]
чi.	The pigment found in an R	notola.	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
чí.	The nigment farmer of	DC.	₹ \$ £ \$	-
	The pigment found in the re	ed or orange flowers	4 0 €	
φv.	The pigment found in the u	rine.		
٦٧.	The pigment found in the c	hloroplasts.		
				Contd2

01 7 0	Mob. 9821263050,	[5]
Mary Street Street Street Street	tale the full forms of:	ر ا
i i	ABA, ii. IAA, iii. GA3, iv. IUD, v. FSH	
Q1. G. C	Complete the following statements, [Rewrite the statement]	[5]
\v!	Parturition is the	
h!	Osmosis is the movement of	
W.	A reflex action is a	· 101 (18) 243
iy.	Hormones always act on	jara de de la composição
v.	A gene is a specific sequence of	
		69-58-55 Jan 1944
Q1. H. F	form 5 pairs from the terms given below:	[5]
Centrom	nere, scala media, nephron, scalavestibuli, semcircular canals, chromosomes, croton	
Mimosa	pudica Insulin, variegated leaves, osmosis, kidney, neuron, Petunia, semipermeable	membrane,
endolym	iph. right in the second of th	
and and the sales of	SECTION II	
	ANSWER ANY FOUR QUESTIONS FROM THIS SECTION.	aga ta arth
Section 1		
Q2. A. E	Differentiate between the following based on the topic given in the bracket.	[5]
1/	Stomata & hydathodes [Nature of water lost]	
i ji.	Ureter and uterus [Function]	
بن انن اننا.	Seminiferous tubule & uriniferous tubule [location]	
Liv.	Cell wall & cell membrane[Permeability]	
W.	Insulin & glucagon[Source of secretion]	
		*:
Q2. B. C	Give the functional activity of the following:	[5]
U.	Mitochondria:	
ji.	Umbilical cord:	
رناز. بناز. منه.	Retina:	
2iv.	Stroma of chloroplast:	
ر برا	RBC:	
Q3.A. A	A pea plant that bears homozygous purple flowers is crossed with a pea plant that be	ars.
homozy	gous white flowers. Answer the questions based on the above information.	[5]
املنا	What will be the appearance of the progeny in the F ₁ generation?	
vii.	What will be the appearance of the progeny in the F ₂ generation?	
Jii.		
viv.		
W.	Who is the father of modern genetics? What was the plant he used in his researc	h?
Q2. B. D	Draw an animal cell with 6 chromosomes and depict the metaphase stage. Label the	diagram
appropri		[5]

Contd..3



Q4. B. Study the diagram and answer the following questions:



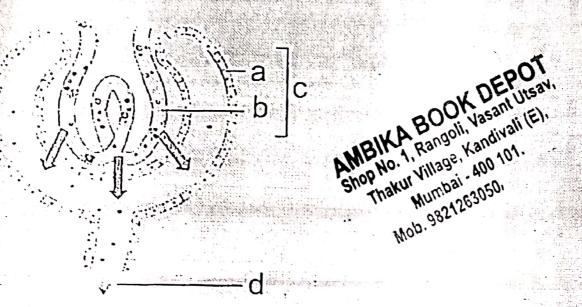
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/نیا	Name the valves of the heart that are open & the valves that are closed.	[2]
vii.	What sound would you hear if the open valves closed?	[1]
viii.	What phase of the heart beat would the heart be in when the open valves wo	uld close?[1]
, iv.	Which chamber of the heart has the thickest walls & why?	[1]

Q3. A. Given below is a table. Rewrite the table and complete it. [5]

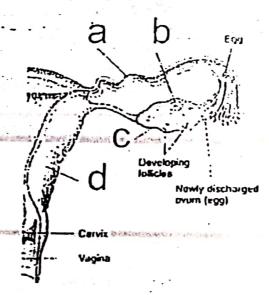
Function		Hormone
· 1, i.	Production of milk	
Li:	Reabsorption of water in the nephrons	- 1844 - 18 48 - 1844
Lil.	Controls basal metabolism	SV 11/2
UH.	Releases extra energy in the case of an emergency.	
Usv.	Contraction of the uterus during childbirth.	Market a religion of the series of

Q5. & Observe the diagram and answer the questions based on it:



V.	Label the different parts marked in the diagram.	[2]
lil.	What is the process that takes place in this structure?	[1]
Yii,	Where is this structure specifically located?	[1]
44.	Redraw the diagram & label 2 blood vessels that are not i	narked in this diagram. [1]

Q6. A. Observe the diagram and answer the questions based on it:



i,	Label the parts marked in the diagram	- [2]
Lir.	Where does fertilization take place?	(1)
ill.	What are the 2 hormones that released by 'b'?	
.⁄⁄ن	If the egg released was fertilized and the resulting zygote	was that of a male, what would be
,	the chromosome number in the zygote?	

Q6. B. Two potato cups, one carved from a raw skinned potato and another carved from a boiled skinned potato were set up with a concentrated salt solution in them and water around them. Answer the questions based on the set up. u/

In which setup would you expect osmosis to take place?

Why does one have to skin the potato before the experiment? ki.

What would your observation in both the cases be? l jil.

Explain how the principle of osmosis is used to preserve fish? Tiv.

What are the terms used for the concentrated salt solution and water respectively. ٩ ٧:

O7. A. Answer the following:

[5]

State the cranial capacities of Autralopithecus and CroMagnon.

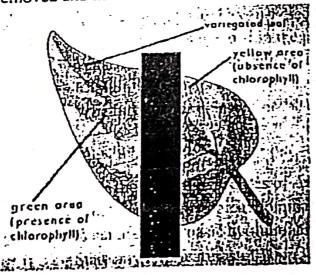
What is meant by apical dominance?

What are the 2 basic evolutionary theories?

is. State any two features of Homo sapiens.

Which evolutionary period or age had a prognathous face?

Q7. B. A leaf of a variegated plant was covered with a black strip of paper after the plant was destarched. This plant was then kept in bright sunlight for a few hours. The leaf was plucked, the black paper removed and the starch test was conducted on the leaf. Answer the questions based on the diagram?



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What is the aim of the experiment?

Name any 2 variegated plants that you can use.

Redraw the leaf to show the result after the starch test.

[1]

[2]