Total Time: 3:00 Hours

Biology (Part-II)

(Fresh/New Course)

, Note: There are three sections in this paper i.e. Section A, B & C.

Total Marks: 85

VERSION: A

me	Allowed: 20 Minutes	"Sect	ion-A''	Marks: 18
	 Use black ball poir 	on on the MCQs Answer	one circle for correct option of	
	No mark will be as	warded for cutting, erasing, c	over writing and multiple circles	: question.
Q,	 Choose the correct of 	option i.e. A,B,C, or D.		
	1. The average adult hun	nan has a lung capacity of		· <u>-</u>
	A liters	5 liters	© 5.6 liters	6 liters
′ :	2. The cells of Bowman's ca	psule that wrap around the	capillaries of glumerulus are	о деня
	Microcytes	Macrocytes	Lanocytes	
3	3. Demineralization of bo	one resorption is carried b	ov	Podocytes
	Chondrocyte	Osteocyte	© Osteoblast	A 0 1
4	4. Reflexes like heart bea		nd sneezing are concerned wit	Osteoclast
•	Cerebrum	Medulla oblonge	ata Pons	
5	6. Exophthalmia and gray	e disease are concerned w		© Cerebellum
	Hypothyroidism	 Hyperthyroidisn 		(A) 77 1 1
6	•	ncerned with		Hypercalcemia
	A Learning	Orientation behav		(a) m
7	. The middle muscular la	yer of ovary wall is called		Territorial behavior
	Perimetrium	Myometrium	© Endometrium	
8.	. Between the age of 30 a	and 40 years due to loss of	lower minerals content from	Pericardium
	Osteoporosis	Osteomalacia	Osteopenia	
9.	. When red flower is cros		produces pink flower, this is o	Osteoarthritis
		Incomplete domina	ance © Over dominance	
10.	The loss of single chron	osome from a diploid set	is collect	Co dominance:
	Nullisomy ■	• Молозоту		○ ₩
11.	Speciation occurs when	populations are senarated	not by geographical barrier b	Tetrasomy
	habitat, it is called		> 88pment omittet 0	at due to extreme change in
	Sympatric	Parapatric	Allopatric	D Both A & B
12.	Average rise in earth's te			
	Green house effect		© Ozone depletion	All of these
13.	The collection of bacteri genome of an organism i	al or bacteriophage clones	s containing at least one copy	of every DNA sequence in a
	Sonication		ng Genomic library	(A) (D) (A)
14,	Liquid prepared from fer	mentation of maltose by	report is	DNA sequencing
	Beer	Wine	· _ ·	
15.			© Vinegar	Alcohol
	The external feature of n • Frontal bone			
16		Parietal bone	© Temporal bone	Ethmoid bone
16,	All are true about juxtam	edullary nephron except .	************	
	(A) Long loop of henle	Short loop of henle	Reual corpuscle in junction of cortex and medulla	Deal with blood volume
17.	Axial skeleton of human	consist of ribs, vertebral c		
	Skuli	Pectoral girdle	Pelvic girdle	Pore arms
18,	The human hind brain co	_	D D	C I OLO RIMA
	• Cerebellum	Cerebrum	© Thalamus	Hippocampus

Total Time: 2:40 Hours

Biology (Part-II)

(Fresh/New Course)

"Section-B"

Marks: 40

Total Marks: 67

- Q. 2. Write short answers of any Ten (10) of the following parts. Each part carries equal marks.
- (i) What is the main cause of lung cancer? Mention six common symptoms of lung cancer.
- (ii) Describe the mechanism of ultra filtration,
- (iii) What is synovial joint? Mention its two types.
- (iv) How does an impulse move from one neuron to another neuron across the synapse?
- (v) How positive feedback enables child birth by enhancing labour contraction?
- (vi) What is orientation behavior? Differentiate between Kinesis and Taxis.
- (vii) Define Pregnancy. What conditions are necessary for pregnancy?
- (viii) How nucleus play role in development of an organism?
- (ix) What is gene linkage?
- (x) What is translocation?
- (xi) Define Hardy Weinberg theorem and name only four conditions necessary to keep gene population in Equilibrium.
- (xii) Define Productivity. Differentiate between Gross Primary Productivity (GPP) and Net Primary Productivity (NPP).
- (xiii) Write four applications of DNA analysis.

"Section-C"

Marks: 27

- Note: Answer any Three (3) questions. Each question carries equal marks.
 - Q. 3. Describe briefly the Human Respiratory System.
 - Q. 4. Explain the endocrine function of Human Pancreas.
 - Q. 5. Describe Morgan's historic work on sex linkage in Drosophila.
 - Q. 6. Write notes on the following.
 - (a) Advantages of Breast feeding and disadvantages of bottle feeding.
 - (b) Female infertility.