A. proximal tubule

3. Which one is imino acid?

A Cell membrane

5. ACTH is secreted from A. Adrenal cortex

A. cubical epithelium

A. CT Scan

A. T-lymphocyte

10. Fertilization occur in A. Uterus

A. Intestine

11. The Gastrin is secreted from

8. Electric potential of the brain is recorded by

9. Which of the following is related to humoral immunity?

A. 500 ml

A. Pepsin

#### **CEB11** 43957 MULTIPLE CHOICE QUESTIONS SUBJECT: BIOLOGY **FULL MARKS: 80** (Each question carries one mark) 1. Glucose and amino acids are reabsorbed in the B. distal tubule C. collecting duct D. loop of Henle [Ans. (A)] 2. The amount of CSF in the cranial cavity C 1 litre B 140 ml $D = 1.5 \,\mathrm{ml}$ [Ans. (B)] B Proline C. Cysteine D. Renin [Ans. (B)] 4. The main difference between Gram positive and Gram negative bacteria is B. Cell Wall C. Ribosome D. Mitochondria [Ans. (B)] C. Adrenal Medulla B. Pituitary D. Thyroid [Ans. (B)] 6. Which of the following is the correct pathway for propagation of cardiac impulse? A. SA node $\rightarrow$ AV node $\rightarrow$ Bundle of His $\rightarrow$ Purkinje fibers B. AV node $\rightarrow$ Bundle of His $\rightarrow$ SA node $\rightarrow$ Purkinje fibers C. SA node $\rightarrow$ Purkinje fibers $\rightarrow$ AV node $\rightarrow$ Bundle of His D. Purkinje fibers $\rightarrow$ AV node $\rightarrow$ SA node $\rightarrow$ Bundle of His [Ans. (A)] 7. Inner surface of the bronchi, bronchioles and fallopian tubes are line by B. columnar epithelium C. squamous epithelium D. ciliated epithelium [Ans. (D)]

C. ECG

C. Vagina

C. Pancreas

C. I-lymphocyte

B. Sphygmomanometer

B. B-lymphocyte

B. Ureter

B. Stomach

D. EEG

D. P-lymphocyte

D. Fallopian tube

D. Rectum

[Ans. (D)]

[Ans. (B)]

[Ans. (D)]

[Ans. (B)]

## 

								[Ans. (C)]
	A. Autopolyploid		Triploid	C.	Allopolyploid	D.	Monoploid	
24.	Polyploid derived from two	diff	Cerent species is called					[Ans. (B)]
	A. Larmarck	B.	Darwin	C.	De Vries	D.	Mendel	[Ama (D)]
23.	Who wrote the famous bool	k "O	rigin of Species"?					(-)]
	A. Ligin	В.	Suberin	C.	Inulin	D.	Starch	[Ans. (D)]
22.	Example of a typical homop							. /-
	c. Divitude protein in pro	u1 )		٧.	22 Trim promaryones			[Ans. (A)]
	<ul><li>A. DNA in prokaryotes</li><li>C. DNA and protein in pro</li></ul>	kars	votes		DNA and RNA in prol RNA in prokaryotes	sary	otes	
	What is a genophore?			D	DNA and DNA in prol	70 PT 1	otos	[Ans. (B)]
	C. Juxtaglumerular apparar	tus		D.	Semilunar valve			[Ans (D)]
	A. Lymph node				S.A. node			
20.	The name of the pace make	er of	f the heart is					[ ( <i>D</i> )]
	A. Calcium	В.	Sodium	C.	cAMP	D.	cGMP	[Ans. (B)]
19.	Which one of the following							
	11. Dyspiica	<i>D</i> .	Проми	<b>.</b>	Ториули	<i>D</i> .	. ipiiou	[Ans. (B)]
18.	When the oxygen supply to A. Dyspnea		tissue is inadequate, the Hypoxia		dition is Asphyxia	D	Apnea	
1.0	***							[Ans. (D)]
± /·	A. 1.7 litres		7 litres		17 litres	D.	170 litres	
17	In 24 hours, total glomerula	ır filt	trate formed in human ki	dne	ev is			[Ans. (B)]
	A. Glucose	B.	Glucose and galactose	C.	Fructose	D.	Glucose an	
16.	The lactase hydrolyzes lacte	ose i	into					[/1115. (/1/)]
	C. Polysynaptic reflex arc			υ.	Asynaptic reflex arc			[Ans. (A)]
	A. Monosynsptic reflex ard				Disynaptic reflex arc			
15.	The reflex arc, which is ma	ide c	of two neurons is known	as				[-1107 (12)]
	A. Cerebrum	В.	Hypothalamus	C.	Cerebellum	D.	Medulla Ob	longata [Ans. (B)]
14.	The part of the brain where					_		_
	A. Testosterone	В.	Progesterone	C.	Adrenalin	D.	Aldosterone	(Ans. (D)
13.	Which of the following is a			<b>C</b>		Б	.11	
	A. Hypothyroidism	В.	Hypoparathyroidism	C.	Hyperthyroidism	Д.	Hyperparati	inyroidism [Ans. (A)]
12.	The cause of cretinism is			-		_	•	

25.	Electrons used in Electron I	Microscope are of the wave	leng	<mark>gth</mark>				
	A. 0.05 Å	B. 0.15 Å	C.	0.25 Å	D.	$0.30~{\rm \AA}$		
26	D: 1: /: / 1 : 1:						[Ans. (A)]	
26.	Biolistic technique is used in	l	ъ	C 4				
	A. Tissue culture process			Gene transfer process				
	C. Hybridization process		υ.	Germplasm conservation	on p	rocess	[Ama (D)]	1
27	Evanuala afavotan aalahla al	ant ni am ant is					[Ans. (B)]	l
21.	Example of water soluble pl		$\mathbf{C}$	Anthoryonin	Ъ	Vanthanhvill		
	A. Chlorophyll-a	B. Chlorophyll-b	C.	Anthocyanin	υ.	Xanthophyll		1
20	Structure element of Chrom	otin is					[Ans. (C)]	I
20.	A. Histone	B. Acid protein and DNA	C	Nuclear matrix	D	Nucleosome	ag	
	A. HISTOILE	b. Acid protein and DNA	C.	Nuclear mairix	υ.		[Ans. (D)]	1
20	Inulin is a polymer of						[Alls. (D)]	ı
<i>29</i> .	A. Glucose	B. Galactose	C	Fructose	D	Arabinose		
	A. Glucosc	D. Galaciose	С.	Tructosc	<b>D</b> .	Arabinosc	[Ans. (C)]	1
30	Mannitol is						[/Ms. (C)]	1
50.	A. Amino acid	B. Amino alcohol	C	Sugar alcohol	D	Sugar acid		
	11. Tillillo ucid	D. Tillino diconor	<u>C.</u>	Sugar diconor	υ.	Sugar acra	[Ans. (C)]	1
31	A flower which can be divid	led into two equal halves by	onl	v one plane is			[11134 (0)]	ı
	A. Zygomorphic	B. Actinomorphic		Regular	D.	Perfect		
		_ ,		8			[Ans. (A)]	1
32.	2. Pieces of plant tissue used in tissue culture is called							•
	A. Explant	B. Somaclone	C.	Inoculant	D.	Clone		
	1						[Ans. (A)]	ı
33.	VAM is							•
	A. Symbiotic bacteria	B. Saprophytic bacteria	C.	Saprophytic fungi	D.	Symbiotic fu	ıngi	
							[Ans. (D)]	l
34.	Ovule integument gets trans	formed into					- , , , ,	_
	A. seed	B. fruit wall	C.	seed coat	D.	cotyledons		
							[Ans. (C)]	l
35.	Acid rain is caused by							
	A. NO <sub>2</sub>	B. SO <sub>2</sub>	C.	$SO_3$	D.	$CO_2$		
				•			[Ans. (B)]	]
36.	Which one of the following	bacterium is used for produ	ctio	on of transgenic plants?				
	A. Escherichia coli		В.	Bacillus thuringiensis				
	C. Staphylococcus aureus	S	D.	Agrobacterium tumefa	ıcie	ens		
							[Ans. (D)]	l
37.	A plant cell becomes turgid	due to						
	A. Plasmolysis	B. Exosmosis	C.	Endosmosis	D.	Electrolysis		
							[Ans. (C)]	l

38.	Restriction enzymes are use	ed to cut						
	A. Single stranded RNA		В.	Double stranded DNA				
	C. Single stranded DNA		D.	Double stranded RNA				
							[Ans.	(B)]
39.	Spindle fibre is made up of							
	A. humulin	B. intermediate filament	C.	flagellin	D.	tubulin		
							[Ans.	<b>(D)</b> ]
40.	Edible part of Mushroom is							
	A. Basidiocarp	B. Primary mycelium	C.	Fungal hyphae	D.	Basidiospoi	es	
							[Ans.	(A)]
41.	Calcium level decreases in t	the blood due to hyposecret	ion (	of				
	A. Parathyroid hormone	B. Calcitonin	C.	Thyroxine	D.	Adrenaline		
							[Ans.	(A)]
42.	Kupffer's cells are							
	A. Phagocytic		В.	Mast cells				
	C. Hormone secreting		D.	Digestive juice secreting	g			
							[Ans.	(A)]
43.	Which centre is stimulated	during increase in body tem	pera	ature ?				
	A. Anterior hypothalamus		B.	Posterior hypothalamus	3			
	C. Limbic system		D.	Red nucleus				
		[Ans	. (A	A) Heat loss centre i.e	. Aı	nterior hypo	othala	<mark>mus</mark> ]
44.	Name the following having	oxygen storing capacity						
	A. Myoglobin	B. Actin	C.	Myosin	D.	Fibrin		
							[Ans.	(A)]
45.	Longest phase of meiosis							
	A. Prophase I	B. Prophase II	C.	Anaphase I	D.	Metaphase	II	
	•	•		•		-	[Ans.	(A)]
46.	Tetany is caused by							
	A. Hyperparathyroidism	B. Hypoparathyroidism	C.	Hyperthyroidism	D.	Hypothyroid	dism	
							[Ans.	(B)]
47.	Which of the following is a	gastro intestine hormone?					-	` /-
	A. Prolactin	B. Enterokinase	C.	GH	D.	FSH		
							[Ans.	(B)1
48.	Name the hormone that has	no role in menstruation.						( )1
	A. LH	B. FSH	C	GH	D	TSH		
	11. 211	<b>D.</b> 1511	О.	011	<u>.</u>		[Ans.	(D)1
49	Which of the following sub	stances can cure Parkinson	's di	sease ?			[7 1115.	(D)]
17.	A. GABA	B. Acetylcholine		Dopamine	D	Glutamic ac	eid	
	n. Ondri	D. Hooty to nothing	<u>C.</u>	Боринно	<b>D</b> .	Siduline ac	Ans.	(C)1
50	Movement of tongue muscle	e is controlled by					[4 7119.	CH
50.	A. facial nerve	B. trigeminal nerve	C	hypoglossal nerve	D	vagus nerve	<b>.</b>	
	A. Iaciai nei ve	D. Higominal licive	<b>C</b> .	nypogiossai lici ve	<i>υ</i> .	vagus nei ve		(C)1
							[Ans.	

51.	Which function will be lost	due to damage of occipital l	obe	?				
	A. Hearing	B. Speech	C.	Vision	D.	Memory	[]	C)1
52.	Meissner's corpuscles occur	r is					[Ans. (	C)]
	A. Brain	B. Nerve cells	C.	Skin	D.	Tongue	EA (	<b>C</b> \1
53.	Osteomalacia is a deficienc	y disease of					[Ans. (	C)]
	A. Infants due to protein enertgy malnutrition		B.	Adults due to protein en	nerts	ev malnutriti	on	
				D. Infants due to Vitamin K deficience				
	C. 1144110 440 to 1144111112	, desires of	٠.				[Ans. (	C)I
51	The gene of sickle cell anae	mia is inherited by					[2113. (	C)]
<i>Э</i> ¬.	A. Blood cells	B. Bone cells	C	Sex chromosomes	D	Autosomes		
	A. Blood cells	B. Bone cens	C.	SCA CHIOIHOSOINGS	υ.	Autosomes	[Ama (	D/I
	D. 1						[Ans. (	ונט
<b>33</b> .	Ptyalin is inactivated by a co				_			
	A. Pepsin	B. Mucus	C.	Rennin	D.	HC1		
							[Ans. (1	<b>D</b> )]
56.	Which one of the following	human cells do not contain i	mitc	ochondria?				
	A. Nerve cell	B. Red blood cell	C.	Liver cell	D.	White blood	l cell	
							[Ans. (	<b>B</b> )]
57.	In which stage of the first meiotic division two sister chromatids are formed?							
	A. Leptotene	B. Zygotene		Pachytene	D.	Diplotene		
	F	7,8		<b>3</b> 11 1		F	[Ans. (	C)I
58	Which one of the following triplet codons is a chain termination codon?							~ <i>)</i> ]
56.	A. UGU	B. AAU		UUG	D	UAG		
	A. OGO	B. AAU	C.	UUU	υ.	UAG	[ ]	D/I
<b>50</b>		. 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			[Ans. (	ונט
39.	How many pairs of contrast			•	_	0		
	A. 3	B. 5	C.		D.			
		Acco	ordir	[ According to English vong to Bengali version pair			_	
<b>60</b>	16 1	-:: 11		41. 500/ 1:	-4	. (	/	·
ου.	If a cross between two indicharacter (a) the genotype	1 1	S WI	tii 50% dominant chara	ctei	(A) and 30%	6 recess	ive
	, ,	•	$\mathcal{C}$	A A .v. ==	Ъ	<b>A A</b> × <b>A</b> =		
	$A. Aa \times Aa$	B. Aa × aa	C.	$AA \times aa$	D.	$AA \times Aa$		
							[Ans. (	B)]
61.	Structural lipids of cell men							
	A. Simple lipid	B. Chromolipids	C.	Steroid	D.	Phospholipi	ds	
							[Ans. (1	<b>D</b> )]
62.	Which one of the following	is polysaccharide?						
	A. Glycogen	B. Sucrose	C.	Lactose	D.	Maltose		
	, ,						[Ans. (A	A)l
63.	What will be the codons in	m-RNA if the DNA codes a	are /	ATG-CAG?			. (	/1
	A. TAC – GTC	B. UAC – GUC		UCA – TUA	D	TCA – GTO	7	
		0.10 300	٥.	2 2.1 1 2.1	~.	- 5.1	[Ans. (]	B)I
							1 - 1 - 1	~ / 1

64.	Which of the following sp	pecies is restricted to a spec	cific area?	
	A. Sibling species	B. Allopatric species	C. Sympatric species	D. Endemic species [Ans. (D)]
65.	Which one of the following	ng is NOT correctly matche	ed?	1 ( )1
	A. Sycon – Canal system	-	B. Star fish – Radial	symmetry
	C. Ascaris – Flame cell		D. Prawn – Haemoco	-
				[Ans. (C)]
66.	Which one of the followin	ng animal phyla does not po	ssess a coelom?	
	A. Platyhelminthes	B. Annelida	C. Mollusca	D. Echinodermata
	11. 1 100/1101111101100	2. 1 mil vii w	0. 1/10/1 <b>/4/50</b>	[Ans. (A)]
67	Cardiac muscles are			[ ()]
07.	A. Striated and voluntary		B. Striated and involu	intary
	C. Smooth and voluntary		D. Smooth and involu	•
	c. Smooth and voluntary		D. Smooth and myord	[Ans. (B)]
68	Which one of the followin	g immunoglobulins is found	d as nentamer 9	[/113. (D)]
00.	A. IgG	B. IgM	C. IgA	D. IgE
	A. IgO	D. IgW	C. IgA	
60	Which are of the followin	a calla is not a nhago avitia (	nall 9	[Ans. (B)]
09.		ng cells is not a phagocytic o		D. D111
	A. Macrophage	B. Monocyte	C. Neutrophil	D. Basophil
<b>7</b> 0	7771 1 C.1 C.11 1			[Ans. (D)]
70.		ng is the most primitive and		
	A. Homo habilis		B. Australopithecus	
	C. Rampithecus punjabi	icus	D. Homo neanderth	
				[Ans. (C)]
71.	A female Anopheles mosq			
		e long and more or less of e	equal length	
	B. Proboscis long and pal	-		
	C. Proboscis short and pa	lpi long		
	D. Both proboscis and pa	lpi are short		
				[Ans. (A)]
72.	The anterior V-spot in mic	<mark>crofilaria of <i>Wuchereria</i> re</mark> p	presents	
	A. Nerve ring	B. Cervical papilla	C. Excretory System	D. Reproductive system
				[Ans. (C)]
73.	In a population, unrestricted	ed reproductive capacity is	<mark>called</mark>	
	A. Biotic potential	B. Fertility	C. Carrying capacity	D. Birth rate
				[Ans. (A)]
74.	When the two ecosystems	s overlap each other, the are	ea is called	
	A. Habitat	B. Niche	C. Ecotone	D. Ecotype
	(-1, -1, -1, -1, -1, -1, -1, -1, -1, -1,	<u> </u>	<u> </u>	[Ans. (C)]
75	Pyramid of energy in ecos	systems is		[1210. (0)]
, 5.	A. Always upright	B. Always inverted	C. Mostly upright	D. Mostly inverted
	11. 11 ways aprignt	D. Miways miverted	C. Iviosity uprignt	[Ans. (A)]
				[Alls. (A)]

## 

/6.	Which one of the following	g is mainly responsible for g	reer	house effect?		
	A. SO <sub>2</sub>	B. CO <sub>2</sub>	C.	CO	D. O <sub>2</sub>	
	-	_			-	[Ans. (B)]
77.	Which one of the followin	g is an exotic carp species?				
	A. Barbus stigma	B. Cyprinus carpio	C.	Labeo bata	D. Cirrhinus	mrigala
	C					[Ans. (B)]
78.	Which of the following tw	o hormones are essential for	ind	uced breeding of fishes?		. ,,
	A. TSH and ACTH		В.	Oestrogen and progest	erone	
	C. FSH and LH		D.	Vassopressin and oxyto	ocin	
						[Ans. (C)]
79.	Which stage of malarial pa	rasite is infective to man?				. , /2
	A. Gametocyte	B. Merozoite	C.	Cryptomerozoite	D. Sporozoite	
	·				•	[Ans. (D)]
80.	The scientific name of the	moth which produce tasar is	S			. ( /1
	A. Bombyx mori	•	B.	Antheraea mylitta		
	C. Antheraea assamensi	S	D.	Philosomia ricini		
						[Ans. (B)]
						. /1

# DESCRIPTIVE QUESTIONS SUBJECT : BIOLOGY

**FULL MARKS: 20** 

(Each question carries two marks)

1. What are poikilothermic animals?

Ans. Also called cold blooded animals. Their body temperature changes according surrounding environment. These animals are less active.

e.g. all invertebrates, fishes, amphibians, reptiles.

2. Write two functions of juxtaglomerular apparatus.

#### Ans. Functions:

- (i) Juxtaglomerular cells secretes Renin which through RAAS (Renin-Angiotensis Aldosterone System) help in absorption of Na<sup>+</sup> from DCT and therefore increases Blood pressure.
- (ii) Its Macula densa cells act as chemorecptor feeding information to JG cells.
- 3. State two differences between red and white muscle.

Ans. Difference between Red & White Muscle.

#### **Red Muscles**

- i) Rich in Myoglobin.
- ii) Mitochondria are more in number.
- iii) Less sarcoplasmic reticulum.
- iv) Can carry out considerable aerobic respiration.
- v) Slow rate of contraction for long period.

#### White Muscles

- i) Less myoglobin.
- ii) Less in number.
- iii) More sarcoplasmic reticulum.
- iv) Depends mainly on anaerobic respiration.
- v) Fast rate of contraction for short period.
- 4. What is the difference between pinocytosis and phagocytosis?

Ans.

#### **Phagocytosis**

- i) Bulk intake of fluid material by cell.
- ii) Vesicles formed are small.
- iii) Lysosome play no role.

#### **Pinocytosis**

- i) Intake of solid material from outside to inside of the cell.
- ii) Large
- iii) Lysosomes are essential.
- 5. State four important functions of plasma membrane.
- Ans. (i) Helps in Transport by active and passive processes.
  - (ii) Take part in Exocytosis and Endocytosis.
  - 6. What is bioaccumulation?
- Ans. Different types of elements and compound deposited inside the living beings. Which is called Bioaccumulation or Bioconcentration. Like in scallops maximum quantity of Zn, Cu, Cd and Cr deposited and in human beings maximum Iodide deposited in thyroid glands.

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- 7. What is a test cross? Why is it so named?
- Ans. When F<sub>1</sub> progeny is crossed with recessive parent then it is called Test Cross. Test Cross helps to find out the genotype of dominant individual.
  - 8. What is ribozyme?
- Ans. Ribozymes are the RNA molecules (Non protein enzyme) that possess catalytic activity they function in RNA splicing reactions.
  - 9. What are mycorrhizae?
- Ans. The association of fungi with the roots of higher plant, is called mycorrhizae. Mycorrhizal association fround in conifers plant.
  - 10. Write down the scientific name of China rose plant. Give its floral formula.

Ans. Hibiscus rosasinensis:

 $Br \oplus \mathcal{O} Epi_7 k_{(5)} \widehat{C_5 A_{(\alpha)} G_{(5-\alpha)}}$ 

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