CEB11 MULTIPLE CHOICE QUESTIONS SUBJECT : BIOLOGY FULL MARKS : 80 (Each question carries one mark)

	Glucose and amino acids an	re reabsorbed in the			
	A. proximal tubule	B. distal tubule	C. collecting duct	D. loop of Henl	e [Ans. (A)]
2.	The amount of CSF in the c	eranial cavity			
	A. 500 ml	B. 140 ml	C. 1 litre	D. 1.5 ml	
					[Ans. (B)]
3.	Which one is imino acid?				
	A. Pepsin	B. Proline	C. Cysteine	D. Renin	[A (D)]
1	The main difference betwee	on Gram positive and Gram	nagativa bactaria is		[Ans. (B)]
4.	A. Cell membrane	B. Cell Wall	C. Ribosome	D. Mitochondria	a
		D. Con Wan	e. Rubosonie		[Ans. (B)]
5.	ACTH is secreted from				[*' (-)]
	A. Adrenal cortex	B. Pituitary	C. Adrenal Medulla	D. Thyroid	
					[Ans. (B)]
6.	Which of the following is the	ne correct pathway for propa	agation of cardiac impulse	?	
	A. SA node \rightarrow AV node \rightarrow	•			
	B. AV node \rightarrow Bundle of \mathbb{I}	•			
	C SA node \rightarrow Purkinie fil	hang \A\/mada \Dumdla			
	•	bers \rightarrow AV node \rightarrow Bundle			
	D. Purkinje fibers $\rightarrow AV$ n				[A ma (A)]
7	D. Purkinje fibers $\rightarrow AV$ n	node \rightarrow SA node \rightarrow Bundle	of His	I	[Ans. (A)]
7.	D. Purkinje fibers \rightarrow AV n Inner surface of the bronchi	node \rightarrow SA node \rightarrow Bundle	of His tubes are line by		
7.	D. Purkinje fibers $\rightarrow AV$ n	node \rightarrow SA node \rightarrow Bundle	of His	D. ciliated epith	elium
	D. Purkinje fibers \rightarrow AV n Inner surface of the bronchi A. cubical epithelium	hode \rightarrow SA node \rightarrow Bundle , bronchioles and fallopian B. columnar epithelium	of His tubes are line by	D. ciliated epith	
	D. Purkinje fibers \rightarrow AV n Inner surface of the bronchi	hode \rightarrow SA node \rightarrow Bundle , bronchioles and fallopian B. columnar epithelium	of His tubes are line by	D. ciliated epith	elium
	D. Purkinje fibers \rightarrow AV n Inner surface of the bronchi A. cubical epithelium Electric potential of the braz	hode \rightarrow SA node \rightarrow Bundle i, bronchioles and fallopian B. columnar epithelium in is recorded by	of His tubes are line by C. squamous epithelium	D. ciliated epithe	elium
8.	D. Purkinje fibers \rightarrow AV n Inner surface of the bronchi A. cubical epithelium Electric potential of the braz	hode \rightarrow SA node \rightarrow Bundle i, bronchioles and fallopian B. columnar epithelium in is recorded by B. Sphygmomanometer	of His tubes are line by C. squamous epithelium C. ECG	D. ciliated epithe	elium [Ans. (D)]
8.	D. Purkinje fibers \rightarrow AV n Inner surface of the bronchi A. cubical epithelium Electric potential of the bran A. CT Scan	hode \rightarrow SA node \rightarrow Bundle i, bronchioles and fallopian B. columnar epithelium in is recorded by B. Sphygmomanometer	of His tubes are line by C. squamous epithelium C. ECG	D. ciliated epithe	elium [Ans. (D)] [Ans. (D)]
8. 9.	D. Purkinje fibers \rightarrow AV n Inner surface of the bronchi A. cubical epithelium Electric potential of the brac A. CT Scan Which of the following is re A. T-lymphocyte	hode \rightarrow SA node \rightarrow Bundle a, bronchioles and fallopian B. columnar epithelium in is recorded by B. Sphygmomanometer slated to humoral immunity f	of His tubes are line by C. squamous epithelium C. ECG	 D. ciliated epithe D. EEG D. P-lymphocyt 	elium [Ans. (D)] [Ans. (D)]
8. 9.	 D. Purkinje fibers → AV n Inner surface of the bronchi A. cubical epithelium Electric potential of the braz A. CT Scan Which of the following is re A. T-lymphocyte Fertilization occur in 	 node → SA node → Bundle a, bronchioles and fallopian B. columnar epithelium in is recorded by B. Sphygmomanometer elated to humoral immunity fallopian B. B-lymphocyte 	of His tubes are line by C. squamous epithelium C. ECG C. I-lymphocyte	 D. ciliated epithe D. EEG D. P-lymphocyt 	elium [Ans. (D)] [Ans. (D)] te [Ans. (B)]
8. 9.	D. Purkinje fibers \rightarrow AV n Inner surface of the bronchi A. cubical epithelium Electric potential of the brac A. CT Scan Which of the following is re A. T-lymphocyte	hode \rightarrow SA node \rightarrow Bundle a, bronchioles and fallopian B. columnar epithelium in is recorded by B. Sphygmomanometer slated to humoral immunity f	of His tubes are line by C. squamous epithelium C. ECG	 D. ciliated epith D. EEG D. P-lymphocyt D. Fallopian tub 	elium [Ans. (D)] [Ans. (D)] te [Ans. (B)] pe
8. 9. 10.	D. Purkinje fibers \rightarrow AV n Inner surface of the bronchi A. cubical epithelium Electric potential of the braz A. CT Scan Which of the following is re A. T-lymphocyte Fertilization occur in A. Uterus	 node → SA node → Bundle a, bronchioles and fallopian B. columnar epithelium in is recorded by B. Sphygmomanometer elated to humoral immunity for B. B-lymphocyte B. Ureter 	of His tubes are line by C. squamous epithelium C. ECG C. I-lymphocyte	 D. ciliated epith D. EEG D. P-lymphocyt D. Fallopian tub 	elium [Ans. (D)] [Ans. (D)] te [Ans. (B)]
8. 9. 10.	 D. Purkinje fibers → AV n Inner surface of the bronchi A. cubical epithelium Electric potential of the braz A. CT Scan Which of the following is re A. T-lymphocyte Fertilization occur in A. Uterus The Gastrin is secreted from 	 node → SA node → Bundle a, bronchioles and fallopian B. columnar epithelium in is recorded by B. Sphygmomanometer clated to humoral immunity for B. B-lymphocyte B. Ureter n 	of His tubes are line by C. squamous epithelium C. ECG C. I-lymphocyte C. Vagina	 D. ciliated epith D. EEG D. P-lymphocyt D. Fallopian tub 	elium [Ans. (D)] [Ans. (D)] te [Ans. (B)] pe
8. 9. 10.	D. Purkinje fibers \rightarrow AV n Inner surface of the bronchi A. cubical epithelium Electric potential of the braz A. CT Scan Which of the following is re A. T-lymphocyte Fertilization occur in A. Uterus	 node → SA node → Bundle a, bronchioles and fallopian B. columnar epithelium in is recorded by B. Sphygmomanometer elated to humoral immunity for B. B-lymphocyte B. Ureter 	of His tubes are line by C. squamous epithelium C. ECG C. I-lymphocyte	 D. ciliated epith D. EEG D. P-lymphocyt D. Fallopian tub D. Rectum 	elium [Ans. (D)] [Ans. (D)] te [Ans. (B)] pe

12.	The cause of cretinism is							
	A. Hypothyroidism	В. Нурор	parathyroidism	C.	Hyperthyroidism	D.	Hyperparat	-
13	Which of the following is a	minereloco	rticoid?					[Ans. (A)]
15.	A. Testosterone	B. Proges		C.	Adrenalin	D.	Aldosteron	e
		8						[Ans. (D)]
14.	The part of the brain where	the centre	for hunge and th	nirst	is located is			
	A. Cerebrum	B. Hypot	halamus	C.	Cerebellum	D.	Medulla Ob	olongata
	T 1 (1 1 1 1	1						[Ans. (B)]
15.	The reflex arc, which is ma		eurons is knowr					
	A. Monosynsptic reflex are	с			Disynaptic reflex arc			
	C. Polysynaptic reflex arc			D.	Asynaptic reflex arc			
16	The lactase hydrolyzes lact	oso into						[Ans. (A)]
10.	A. Glucose		se and galactose	С	Fructose	D	Glucose an	d fructose
		D. Glueo	se una guiaetose	U.	11401050	Ъ.		[Ans. (B)]
17.	In 24 hours, total glomerula	r filtrate for	rmed in human ki	idne	vis			[11101 (2)]
	A. 1.7 litres	B. 7 litres			17 litres	D.	170 litres	
								[Ans. (D)]
18.	When the oxygen supply to	the tissue i	s inadequate, the	con	dition is			
	A. Dyspnea	B. Hypox	tia	С.	Asphyxia	D.	Apnea	
								[Ans. (B)]
19.	Which one of the following	; is not a see	cond messenger i					
	A. Calcium	B. Sodiur	n	C.	cAMP	D.	cGMP	
• •								[Ans. (B)]
20.	The name of the pace make	er of the he	art is	_				
	A. Lymph node				S.A. node			
	C. Juxtaglumerular appara	tus		D.	Semilunar valve			
21	What is a gamanhara 2							[Ans. (B)]
21.	What is a genophore ? A. DNA in prokaryotes			D	DNA and RNA in prol	70 m 1	otac	
	C. DNA in protein in pro	karvotes			RNA in prokaryotes	sai y	oles	
	C. DIVA and protein in pro	kai yotes		D.	KINA III piokai yotes			[Ans. (A)]
22	Example of a typical homop	olysacchar	ide is					
	A. Ligin	B. Suberi		C.	Inulin	D.	Starch	
							~	[Ans. (D)]
23.	Who wrote the famous bool	k "Origin o	f Species"?					
	A. Larmarck	B. Darwi		C.	De Vries	D.	Mendel	
								[Ans. (B)]
24.	Polyploid derived from two	different sp	pecies is called					
	A. Autopolyploid	B. Triploi	d	C.	Allopolyploid	D.	Monoploid	
								[Ans. (C)]

25.	Electrons used in Electron I A. 0.05 Å		roscope are of the wavel 0.15 Å	-	th 0.25 Å	D.	0.30 Å	[4
26.	Biolistic technique is used in A. Tissue culture process	l		B.	Gene transfer process			[Ans. (A)]
	C. Hybridization process			D.	Germplasm conservation	on p	process	[Ans. (B)]
27.	Example of water soluble pl			G			.	
	A. Chlorophyll-a	В.	Chlorophyll-b	C.	Anthocyanin	D.	Xanthophyll	[Ans. (C)]
28.	Structure element of Chrom	atin	ı is					
	A. Histone	B.	Acid protein and DNA	C.	Nuclear matrix	D.	Nucleosome	es [Ans. (D)]
29.	Inulin is a polymer of							
	A. Glucose	В.	Galactose	C.	Fructose	D.	Arabinose	[Ans. (C)]
30.	Mannitol is	Ð		G	a 1.1.1	P	a	
	A. Amino acid	В.	Amino alcohol	C.	Sugar alcohol	D.	Sugar acid	[A = -(C)]
21	A flower which can be divid	lad	into two aqual halves hy	anl	v ono plono is			[Ans. (C)]
51.	A. Zygomorphic		Actinomorphic		Regular	р	Perfect	
		D.	Retifionorphic	C.	Regular	D.	reneet	[Ans. (A)]
32.	Pieces of plant tissue used i	n tis	ssue culture is called					[[]]]]
	A. Explant		Somaclone	C.	Inoculant	D.	Clone	
								[Ans. (A)]
33.	VAM is							
	A. Symbiotic bacteria	В.	Saprophytic bacteria	C.	Saprophytic fungi	D.	Symbiotic fi	e
24		c						[Ans. (D)]
34.	Ovule integument gets trans A. seed		fruit wall	C	seed coat	Л	cotyledons	
	A. seeu	D.	ii uit wali	U.	seeu coal	D.	cotyleuolis	[Ans. (C)]
35.	Acid rain is caused by							
	A. NO ₂	B.	SO ₂	C.	SO ₃	D.	CO_2	
	2		2		3		2	[Ans. (B)]
36.	Which one of the following	bac	terium is used for produ	ctio	n of transgenic plants?			
	A. Escherichia coli				Bacillus thuringiensis			
	C. Staphylococcus aureus	5		D.	Agrobacterium tumefo	icie	ens	
27	A 1 / 111 / · · ·	1						[Ans. (D)]
37.	A plant cell becomes turgid			C	Fudaqueasis	р	El a atri - 1'	
	A. Plasmolysis	B.	Exosmosis	U.	Endosmosis	D.	Electrolysis	[Ans (C)]
								[Ans. (C)]

A. Single stranded RNA	B. Double stranded DNA
C. Single stranded DNA	D. Double stranded RNA [Ans. (B)]
39. Spindle fibre is made up of	
A. humulin B. intermed	iate filament C. flagellin D. tubulin [Ans. (D)]
40. Edible part of Mushroom is	
A. Basidiocarp B. Primary I	mycelium C. Fungal hyphae D. Basidiospores [Ans. (A)]
41. Calcium level decreases in the blood due	
A. Parathyroid hormone B. Calcitonia	
42. Kupffer's cells are	[Ans. (A)]
A. Phagocytic	B. Mast cells
C. Hormone secreting	D. Digestive juice secreting [Ans. (A)]
43. Which centre is stimulated during increas	
A. Anterior hypothalamus	B. Posterior hypothalamus
C. Limbic system	D. Red nucleus [Ans. (A) Heat loss centre i.e. Anterior hypothalamus]
44. Name the following having oxygen storin	
A. Myoglobin B. Actin	C. Myosin D. Fibrin
45. Longest phase of meiosis	[Ans. (A)]
A. Prophase I B. Prophase	
A. Prophase I B. Prophase	
A. Prophase IB. Prophase46. Tetany is caused by	e II C. Anaphase I D. Metaphase II [Ans. (A)]
 A. Prophase I B. Prophase 46. Tetany is caused by A. Hyperparathyroidism B. Hypopara 	e II C. Anaphase I D. Metaphase II [Ans. (A)] athyroidism C. Hyperthyroidism D. Hypothyroidism [Ans. (B)]
 A. Prophase I B. Prophase 46. Tetany is caused by A. Hyperparathyroidism B. Hypopara 47. Which of the following is a gastro intestime 	e II C. Anaphase I D. Metaphase II [Ans. (A)] athyroidism C. Hyperthyroidism D. Hypothyroidism [Ans. (B)] ne hormone ?
 A. Prophase I B. Prophase 46. Tetany is caused by A. Hyperparathyroidism B. Hypopara 	e II C. Anaphase I D. Metaphase II [Ans. (A)] athyroidism C. Hyperthyroidism D. Hypothyroidism [Ans. (B)] ne hormone ?
 A. Prophase I B. Prophase 46. Tetany is caused by A. Hyperparathyroidism B. Hypopara 47. Which of the following is a gastro intestin A. Prolactin B. Enterokin 48. Name the hormone that has no role in me 	e II C. Anaphase I D. Metaphase II [Ans. (A)] athyroidism C. Hyperthyroidism D. Hypothyroidism [Ans. (B)] ne hormone ? nase C. GH D. FSH [Ans. (B)] enstruation.
 A. Prophase I B. Prophase 46. Tetany is caused by A. Hyperparathyroidism B. Hypopara 47. Which of the following is a gastro intestin A. Prolactin B. Enterokin 	e II C. Anaphase I D. Metaphase II [Ans. (A)] athyroidism C. Hyperthyroidism D. Hypothyroidism [Ans. (B)] ne hormone? nase C. GH D. FSH [Ans. (B)] enstruation. C. GH D. TSH
 A. Prophase I B. Prophase 46. Tetany is caused by A. Hyperparathyroidism B. Hypopara 47. Which of the following is a gastro intestin A. Prolactin B. Enterokin 48. Name the hormone that has no role in me 	e II C. Anaphase I D. Metaphase II [Ans. (A)] athyroidism C. Hyperthyroidism D. Hypothyroidism [Ans. (B)] ne hormone ? nase C. GH D. FSH [Ans. (B)] enstruation. C. GH D. TSH [Ans. (D)]
 A. Prophase I B. Prophase 46. Tetany is caused by A. Hyperparathyroidism B. Hypopara 47. Which of the following is a gastro intestin A. Prolactin B. Enterokin 48. Name the hormone that has no role in me A. LH B. FSH 	e II C. Anaphase I D. Metaphase II [Ans. (A)] athyroidism C. Hyperthyroidism D. Hypothyroidism [Ans. (B)] ne hormone? nase C. GH D. FSH [Ans. (B)] enstruation. C. GH D. TSH [Ans. (D)] ure Parkinson's disease ? tooline C. Dopamine D. Glutamic acid
 A. Prophase I B. Prophase 46. Tetany is caused by A. Hyperparathyroidism B. Hypopara 47. Which of the following is a gastro intestin A. Prolactin B. Enterokin 48. Name the hormone that has no role in me A. LH B. FSH 49. Which of the following substances can c A. GABA B. Acetylch 	e II C. Anaphase I D. Metaphase II [Ans. (A)] athyroidism C. Hyperthyroidism D. Hypothyroidism [Ans. (B)] ne hormone? nase C. GH D. FSH [Ans. (B)] enstruation. C. GH D. TSH [Ans. (D)] ure Parkinson's disease ? oline C. Dopamine D. Glutamic acid [Ans. (C)]
 A. Prophase I B. Prophase 46. Tetany is caused by A. Hyperparathyroidism B. Hypopara 47. Which of the following is a gastro intestin A. Prolactin B. Enterokin 48. Name the hormone that has no role in me A. LH B. FSH 49. Which of the following substances can c 	e II C. Anaphase I D. Metaphase II [Ans. (A)] athyroidism C. Hyperthyroidism D. Hypothyroidism [Ans. (B)] ne hormone? nase C. GH D. FSH [Ans. (B)] enstruation. C. GH D. TSH [Ans. (D)] ure Parkinson's disease ? Joline C. Dopamine D. Glutamic acid [Ans. (C)]

51.	Which function will be lost	due to damage of occipital	l lobe ?	
	A. Hearing	B. Speech	C. Vision	D. Memory
50	Maigan anta a amaga a las a a ag	- i		[Ans. (C)]
52.	Meissner's corpuscles occur A. Brain	B. Nerve cells	C. Skin	D. Tongue
			C. Bhill	[Ans. (C)]
53.	Osteomalacia is a deficienc	y disease of		
	A. Infants due to protein en	0.1	B. Adults due to protei	
	C. Adults due to Vitamin D	deficiency	D. Infants due to Vitan	2
54	The gene of sickle cell anae	mia is inherited by		[Ans. (C)]
01.	A. Blood cells	B. Bone cells	C. Sex chromosomes	D. Autosomes
				[Ans. (D)]
55.	Ptyalin is inactivated by a co			5
	A. Pepsin	B. Mucus	C. Rennin	D. HCl
56	Which one of the following	human cells do not contain	n mitochondria?	[Ans. (D)]
00.	A. Nerve cell	B. Red blood cell	C. Liver cell	D. White blood cell
				[Ans. (B)]
57.	In which stage of the first m			
	A. Leptotene	B. Zygotene	C. Pachytene	D. Diplotene
58.	Which one of the following	triplet codons is a chain ter	rmination codon?	[Ans. (C)]
00.	A. UGU	B. AAU	C. UUG	D. UAG
				[Ans. (D)]
59.	How many pairs of contrast		•	
	A. 3	B. 5	C. 7	D. 9 h version Answer is B i.e. 5 pairs.
		Acc		pair is NOT mention in question]
60.	If a cross between two indi	viduals produces offspring	gs with 50% dominant ch	aracter (A) and 50% recessive
	character (a) the genotype			
	A. $Aa \times Aa$	B. Aa \times aa	C. $AA \times aa$	D. $AA \times Aa$
61	Structural lipids of cell men	abrana ara		[Ans. (B)]
01.	A. Simple lipid	B. Chromolipids	C. Steroid	D. Phospholipids
	1 1	1		[Ans. (D)]
62.	Which one of the following			
	A. Glycogen	B. Sucrose	C. Lactose	D. Maltose
63	What will be the codons in	m-RNA if the DNA codes	are ATG-CAG?	[Ans. (A)]
05.	A. TAC – GTC	B. UAC – GUC	C. UCA – TUA	D. TCA – GTC
				[Ans. (B)]

64.	Which of the following spe	cies is restricted to a specif	fic ai	rea ?			
	A. Sibling species	B. Allopatric species	C.	Sympatric species	D.	Endemic sp	
65.	Which one of the following	s is NOT correctly matched	?				[Ans. (D)]
	A. Sycon – Canal system			Star fish – Radial sym	metr	У	
	C. Ascaris – Flame cell		D.	Prawn – Haemocoel			
66.	Which one of the following	animal phyla does not poss	sess	a coelom ?			[Ans. (C)]
	A. Platyhelminthes	B. Annelida		Mollusca	D.	Echinoderm	nata
							[Ans. (A)]
6/.	Cardiac muscles are A. Striated and voluntary		B	Striated and involuntar	v		
	C. Smooth and voluntary			Smooth and involuntar	-		
							[Ans. (B)]
68.	Which one of the following	•	•		р	Ι«Ε	
	A. IgG	B. IgM	C.	IgA	D.	IgE	[Ans. (B)]
69.	Which one of the following	cells is not a phagocytic ce	11?				[(-)]
	A. Macrophage	B. Monocyte	C.	Neutrophil	D.	Basophil	
70	Which one of the following	is the most primitive ances	tor	of man ?			[Ans. (D)]
70.	A. Homo habilis	, is the most primitive ances		Australopithecus			
	C. Rampithecus punjabic	cus		Homo neanderthalen	sis		
71		•, 1 • 11					[Ans. (C)]
/1.	A female Anopheles mosqu A. Proboscis and palpi are		mal	ength			
	B. Proboscis long and palp		[
	C. Proboscis short and pal						
	D. Both proboscis and palp	bi are short					[Ans. (A)]
72.	The anterior V-spot in micr	ofilaria of <i>Wuchereria</i> repr	esen	ts			
	A. Nerve ring	B. Cervical papilla		Excretory System	D.	Reproductiv	ve system
70	T 1	1 1 4	11 1				[Ans. (C)]
/3.	In a population, unrestricted A. Biotic potential	B. Fertility		Carrying capacity	D	Birth rate	
		D. Fording	0.	currying cupucity	Δ.	Birtii Tutt	[Ans. (A)]
74.	When the two ecosystems	-					
	A. Habitat	B. Niche	C.	Ecotone	D.	Ecotype	[Ang (C)]
75.	Pyramid of energy in ecosy	stems is					[Ans. (C)]
	A. Always upright	B. Always inverted	C.	Mostly upright	D.	Mostly inve	
							[Ans. (A)]

76. Which one of the following is mainly responsible for green house effect ?					
A. SO ₂	B. CO ₂	C. CO	D. O ₂		
			[Ans. (B)]		
77. Which one of the follo	owing is an exotic carp species	?			
A. Barbus stigma	B. Cyprinus carpio	C. Labeo bata	D. Cirrhinus mrigala		
			[Ans. (B)]		
78. Which of the followin	g two hormones are essential fo	or induced breeding of fishe	es?		
A. TSH and ACTH		B. Oestrogen and prog	esterone		
C. FSH and LH		D. Vassopressin and ox	ytocin		
			[Ans. (C)]		
79. Which stage of malar	ial parasite is infective to man?				
A. Gametocyte	B. Merozoite	C. Cryptomerozoite	D. Sporozoite		
			[Ans. (D)]		
80. The scientific name o	f the moth which produce tasar	is			
A. Bombyx mori		B. Antheraea mylitta			
C. Antheraea assan	nensis	D. Philosomia ricini			
			[Ans. (B)]		

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^+ 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.		<u>Phagocytosis</u>	<u>Pinocytosis</u>			
	i)	Bulk intake of fluid material by cell.	i)	Intake of solid material from outside to inside of the cell.		
	ii)	Vesicles formed are small.	ii)	Large		
	iii)	Lysosome play no role.	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.

- 7. What is a test cross? Why is it so named?
- Ans. When F₁ 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 :

 $\operatorname{Br} \oplus \operatorname{\operatorname{pr}}^{\bullet} \operatorname{Epi}_{7} \operatorname{k}_{(5)} \operatorname{\operatorname{C}}_{5} \operatorname{A}_{(\alpha)} \operatorname{\underline{G}}_{(5-\alpha)}$
