611 - LIFE SCIENCE (FINAL)

- 1. The hormone released by the parathyroid gland in response to the fall of blood Ca^{2+} level is
 - (A) Insulin
 - (B) Calcitonin
 - (C) Adrenaline
 - (D) PTH
- 2. Choose the correct matching pair from the following options:
 - (A) Vitamin C: Anemia
 - (B) Vitamin B1: Beriberi
 - (C) Vitamin B6: Scurvy
 - (D) Vitamin K: Rickets
- 3. Low pH decreases the affinity of hemoglobin for O_2 , an effect called as
 - (A) Bohr shift
 - (B) Chloride shift
 - (C) Hamburger phenomenon
 - (D) Lineas phenomenon
- 4. Which tubule plays a crucial role in regulating the K⁺ and NaCl concentration of body fluids?
 - (A) Distal tubule
 - (B) Proximal tubule
 - (C) Loop of Henle
 - (D) Collecting tubule
- 5. What is the correct sequence of embryonic development in mammals?
 - (A) Fertilization \rightarrow Cleavage \rightarrow Morula \rightarrow Zygote \rightarrow Blastula \rightarrow Gastrula
 - (B) Zygote → Cleavage → Morula → Fertilization → Blastula → Gastrula
 - (C) Fertilization \rightarrow Zygote \rightarrow Cleavage \rightarrow Morula \rightarrow Blastula \rightarrow Gastrula
 - (D) Fertilization \rightarrow Zygote \rightarrow Cleavage \rightarrow Blastula \rightarrow Morula \rightarrow Gastrula

6.	W IIICI	n one among the following immune cells secrete antibodies?
	(A)	Plasma B cell
	(B)	T helper cell
	(C)	T regulatory cell
	(D)	Natural killer cell
	` /	
7.	In ma	mmals, circadian rhythms are coordinated by clustered neurons in the
		halamus, forming a structure called as
	J P = 3	and the second s
	(A)	Suprachiasmatic nucleus
	(B)	Motor neurons
	(C)	Sensory neurons
	(D)	Corpus Callosum
8.	Nocic	eptors belong to which of the following category of receptors?
0.	TVOCIC	eptors belong to which of the following eategory of receptors:
	(A)	Mechanoreceptors
	(B)	Chemoreceptors
	(C)	Pain receptors
	(D)	Thermoreceptors
9.	Which	n of the following photoreceptor cells provide color vision?
9.		
9.	(A)	Rods
9.	(A) (B)	Rods Parenchyma
9.	(A) (B) (C)	Rods Parenchyma Pericycle
9.	(A) (B)	Rods Parenchyma
9.	(A) (B) (C)	Rods Parenchyma Pericycle
9.	(A) (B) (C) (D)	Rods Parenchyma Pericycle
	(A) (B) (C) (D)	Rods Parenchyma Pericycle Cones
	(A) (B) (C) (D) Fungi extrac	Rods Parenchyma Pericycle Cones that form sheaths of hyphae over the surface of a root and typically grow in the rellular space of the root cortex are known as
	(A) (B) (C) (D) Fungi extract (A)	Rods Parenchyma Pericycle Cones that form sheaths of hyphae over the surface of a root and typically grow in the rellular space of the root cortex are known as Arbuscular fungi
	(A) (B) (C) (D) Fungi extrac	Rods Parenchyma Pericycle Cones that form sheaths of hyphae over the surface of a root and typically grow in the rellular space of the root cortex are known as Arbuscular fungi Ectomycorrhizal fungi
	(A) (B) (C) (D) Fungi extract (A) (B)	Rods Parenchyma Pericycle Cones that form sheaths of hyphae over the surface of a root and typically grow in the rellular space of the root cortex are known as Arbuscular fungi
	(A) (B) (C) (D) Fungi extract (A) (B) (C)	Rods Parenchyma Pericycle Cones that form sheaths of hyphae over the surface of a root and typically grow in the rellular space of the root cortex are known as Arbuscular fungi Ectomycorrhizal fungi Coenocytic fungi
10.	(A) (B) (C) (D) Fungi extract (A) (B) (C) (D)	Rods Parenchyma Pericycle Cones that form sheaths of hyphae over the surface of a root and typically grow in the rellular space of the root cortex are known as Arbuscular fungi Ectomycorrhizal fungi Coenocytic fungi Hyphae fungi
	(A) (B) (C) (D) Fungi extract (A) (B) (C) (D)	Rods Parenchyma Pericycle Cones that form sheaths of hyphae over the surface of a root and typically grow in the rellular space of the root cortex are known as Arbuscular fungi Ectomycorrhizal fungi Coenocytic fungi
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10.	(A) (B) (C) (D) Fungi extrace (A) (B) (C) (D) Trans (A) (B)	Rods Parenchyma Pericycle Cones that form sheaths of hyphae over the surface of a root and typically grow in the cellular space of the root cortex are known as Arbuscular fungi Ectomycorrhizal fungi Coenocytic fungi Hyphae fungi fer of genetic material between two bacterial cells is known as Transformation Translation
10.	(A) (B) (C) (D) Fungi extrac (A) (B) (C) (D) Trans (A) (B) (C)	Rods Parenchyma Pericycle Cones that form sheaths of hyphae over the surface of a root and typically grow in the sellular space of the root cortex are known as Arbuscular fungi Ectomycorrhizal fungi Coenocytic fungi Hyphae fungi fer of genetic material between two bacterial cells is known as Transformation Translation Amplification
10.	(A) (B) (C) (D) Fungi extrace (A) (B) (C) (D) Trans (A) (B)	Rods Parenchyma Pericycle Cones that form sheaths of hyphae over the surface of a root and typically grow in the cellular space of the root cortex are known as Arbuscular fungi Ectomycorrhizal fungi Coenocytic fungi Hyphae fungi fer of genetic material between two bacterial cells is known as Transformation Translation

12.	"Ratites" is a group of organisms belonging to which one among the following?		
	(A)	Bacteria	
	(B)	Bird	
	(C)	Reptile	
	(D)	Mammal	
13.	The in	nnermost whorl of a flower is constituted by	
	(A)	Carpel	
	(B)	Sepal	
	(C)	Tepal	
	(D)	Stamen	
14.	Malat	thion is a/an	
	(A)	Acetylcholinesterase inhibitor	
	(B)	Voltage-gated Sodium channel inhibitor	
	(C)	Chitin synthesis inhibitor	
	(D)	Acetylcholine receptor inhibitor	
15.	The p	henomenon where accumulated toxins become more concentrated in successive	
	troph	ic levels of a food web is known as	
	(A)	Biological magnification	
	(B)	Toxication Toxicity explication	
	(C) (D)	Toxicity exaltation Detoxification	
	(D)	Betoxineation	
16.		ategy that modifies the environment to increase bioremediation by the existing	
	organ	ism is known as	
	(A)	Bioaugmentation	
	(B)	Biostimulation	
<i>A</i>	(C)	Bioconcentration	
	(D)	Bioaccumulation	
17	0	The second of the second of DNA standards at the second of	
17.		equence analysis of a double-stranded DNA, the results showed the content of	
	Cytos	sine as 30%. What is the amount of A and T put together?	
	(A)	70%	
	(B)	40%	
	(C)	20%	
	(D)	30%	

18.		teraction between species that benefits one of the species but neither harms nor the other species is known as
	(A)	Mutualism
	(B)	Predation
	(C)	Parasitism
	(D)	Commensalism
19.	In ang	giosperms, after fertilization, the ploidy level of endosperm is
	(A)	ln
	(B)	2n
	(C)	3n
	(D)	4n
20.	How	many pairs of chromosomes does Drosophila melanogaster have?
	(A)	4
	(B)	8
	(C)	
	(D)	6
21.	Infect	ious proteins are known as
	(A)	Abzymes
	(B)	Prions
	(C)	Proviruses
	(D)	Viroids
22.	Malpi	ighian tubules are the organs found in
	(A)	Annelids
	(B)	Arthropods
	(C)	Platyhelminths
	(D)	Vertebrates
23.	The f	ully processed eukaryotic mRNA protects itself from digestion by
25.		oribonuclease due to the presence of
	(A)	5' cap
		3' poly-A tail
		3' cap
	(D)	5' poly-A tail

24.	Which	of the following codons code amino acids, Selenocysteine and Pyrrolysine?
	(A)	UUU and CUU
	` /	UGA and UUU
	` /	UAG and CUU
		UGA and UAG
	(2)	
25.	During	g carboxylation in C ₃ plants, the very first product formed is
	(A)	Phosphoglyceraldehyde
	(B)	Oxaloacetic acid
	(C)	Malic acid
	(D)	Phosphoglyceric acid
26.	The cla	ass of enzymes that catalyzes the reaction involving the addition of groups to
		bonds, or formation of double bonds by removal of groups are called as
		condet, or remained or deduct condet by removaler groups are carrot as
	(A)	Lyases
	(B)	Oxidoreductases
	` /	Transferases
	(D)	Ligases
27.	The ma	ain repository of inorganic ions in the plant cell is
		Lysosomes
		Chloroplast
	` /	Mitochondria
	(D)	Central Vacuole
28.	A prote	ein destined to be degraded through the proteasomal pathway is
	_	gged with
	III St tag	
	(A)	Aminopeptidase
	(B)	IgG antibody
		Rab protein
	(D)	Ubiquitin
29.	G2/M	class of cyclin contains
	(A)	Cyclin B
		Cyclin D
		Cyclin A
		Cyclin E

30.	Dowr	Syndrome belongs to which of the following classes of genetic disorder?
	(A)	Nullisomy
	(B)	Trisomy
	(C)	Monosomy
	(D)	Disomy
31.	The a	verage molecular weight of a base pair is
	(A)	660 dalton
	(B)	1320 dalton
	(C)	330 dalton
	(D)	110 dalton
32.	The h	nomeobox region in <i>Drosophila</i> contains
	(A)	160-nucleotide sequence
	(B)	60-nucleotide sequence
	(C)	180-nucleotide sequence
	(D)	80-nucleotide sequence
33.	Rice	sheath blight disease is caused by
	(A)	Pyricularia oryzae
	(B)	Xanthomonas oryzae
	(C)	Sarocladium oryzae
	(D)	Rhizoctonia solani
34.	All e	nzymes of the TCA cycle are located in the mitochondrial matrix except one,
		is located in inner mitochondrial membrane in eukaryotes and in the cytosol in
		ryotes. This enzyme is
	prome	
	(A)	Isocitrate dehydrogenase
	(B)	Malate dehydrogenase
	(C)	Succinate dehydrogenase
	(D)	Lactate dehydrogenase
	A. Committee	
35.	For th	ne synthesis of one glucose molecule, the number of ATP required is
	(A)	9 ATP for the C ₃ cycle and 18 ATP for the C ₄ cycle

(B) 18 ATP for the C₃ cycle and 30 ATP for the C₄ cycle
(C) 32 ATP for the C₃ cycle and 30 ATP for the C₄ cycle
(D) 18 ATP for the C₃ cycle and 32 ATP for the C₄ cycle

 36. Highly condensed interphase chromatin visible as irregular clumps with the light microscope is known as (A) Polychromatin (B) Euchromatin (C) Heterochromatin (D) Histochromatin 37. In human telomeres, which one of the following short nucleotide sequences are repeated multiple times? (A) AAACCC (B) GGAACC (C) ATCGCG (D) TTAGGG 38. The half-life of Carbon-14 is (A) 4.5 billion years (B) 1.57 × 10⁷ years (C) 5.730 years (D) 100 days 39. N-Formyl-methionine is the starting residue for protein synthesis in (A) Archaea (B) Fungi (C) Bacteria (D) Plants 40. The genetic condition where males carry one extra copy of the X chromosome apart from XY is known as (A) Edwards syndrome (B) Klinefelter syndrome (C) Turner syndrome (D) Cri-du-chat syndrome 41. The large subunit of prokaryotic 70S ribosome consists of (A) 16S rRNA (B) 18S rRNA (C) 28S, 5.8S and 5S rRNA (D) 23S and 5S rRNA 			
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(A) 16S rRNA (B) 18S rRNA (C) 28S, 5.8S and 5S rRNA		()	
(B) 18S rRNA (C) 28S, 5.8S and 5S rRNA	41.	The la	arge subunit of prokaryotic 70S ribosome consists of
(B) 18S rRNA (C) 28S, 5.8S and 5S rRNA		(A)	16S rRNA
(C) 28S, 5.8S and 5S rRNA		, ,	
(D) 23S and 5S rRNA		(C)	28S, 5.8S and 5S rRNA
		(D)	23S and 5S rRNA

42	2. Tocoj	pherol is a chemical compound that belongs to which of the following Vitamins?
	(A)	F
	(B)	A
	(C)	C
	(D)	D
	(-)	
4.	3. Chym	ne is
	(A)	a mixture of saliva and food in the shape of a ball
	(B)	a mixture of water, salts, cells and glycoprotein
	(C)	another name of bile
	(D)	a mixture of ingested food and gastric juice
44	4. The s	mall, accessible part of an antigen that binds to an antigen receptor is called as
	(A)	Paratope
	(B)	Antibody
	(C)	Epitope
	(D)	Allotrope
4:	5. Bicol	lateral vascular bundles are found in the family of
	(1)	Malvaceae
	(A) (B)	Musaceae
	(C)	Cucurbitaceae
	(D)	Solanaceae
	(2)	
40	6. The la	argest operon of vir region in Ti plasmid of Agrobacterium radiobacter is
	(A)	vir C
	(B)	vir D
	(C)	vir E
	(D)	vir B
	A 1	
4	7. The d	efensive adaptation in animals where a harmless species mimics as
•	4	nful one is
	a midii	
	(A)	Mullerian mimicry
	(B)	Aposematic Coloration
	(C)	Cryptic Coloration
	(D)	Batesian mimicry

48.	The s	tudy of vital statistics of population and its change over time is known as
	(A)	Life table
	(B)	Demography
	(C)	Immigration
	(D)	Survivorship Curve
49.	Gaps	between adjacent Schwann cells are called as
	(A)	Myelin sheath
	(B)	Nodes of Ranvier
	(C)	Oligodendrocyte
	(D)	Axon hillock
50.	Hista	mine is released by which of the following cell?
	(A)	B lymphocyte
	(B)	Mast cell
	(C)	Neutrophil
	(D)	Eosinophil
51.	Melat	conin is produced by which of the following gland?
	(A)	Thymus
	(B)	Pituitary
	(C)	Pineal
	(D)	Pancreas
52.	Latera	al meristem consists of which of the following?
	(A)	Vascular bundle and cork cambium
	(B)	Vascular cambium and cork cambium
	700	Protoderm and Calyptrogen
	(D)	Vascular cambium and Calyptrogen
	1	
53.	Which	h of the following is the sex-determination system in grasshoppers?
	(A)	X-Y
	(B)	Z-W
	(C)	X-O
	(D)	Z-O

54.	The fa	The family of plants commonly known as "Sedges" is			
	(A)	Malvaceae			
	(B)	Cyperaceae			
	, ,	Brassicaceae			
	(D)	Xyridaceae			
55.	Which	n of the following is a natural plant hormone?			
	(A)	Indole-3-acetic acid			
	(B)	Indole-3-butyric acid			
	(C)	1-Naphthaleneacetic acid			
	(D)	2,4-dichlorophenoxyacetic acid			
56.	Which	n of the following statements is NOT true about G proteins?			
	(A)	G proteins become activated when bound to GTP			
	(B)	G proteins function as GTPase enzyme			
	(C)	G proteins are involved in a signal cascade			
	(D)	G proteins become activated when bound to GDP			
57.	The m	nost abundant glycoprotein in the extracellular matrix of most animal cells is			
	(A)	Collagen			
	(B)	Integrins			
	(C)	Laminin			
	(D)	Fibronectin			
	,				
58.	When	a few individuals become isolated from a larger population, this smaller group			
50.		establish a new population whose gene pool differs from the source population.			
	-	s called as the			
	(A)	Founder effect			
	(B)	Bottleneck effect			
	(C)	Natural selection			
	(D)	Gene flow			
59.	Disjur	nction of the synapsed homologous chromosomes occur in			
	(A)	Anaphase II			
	(B)	Anaphase I			
	(C)	Metaphase I			
	(D)	Prophase I			

60.	The s	hortest phase of the cell cycle is
	(A)	G1 phase
	(B)	G2 phase
	(C)	M phase
	(D)	S phase
61.	Amor	ng the following, which cell organelle is involved in apoptosis?
	(A)	Endoplasmic reticulum
	(B)	Mitochondria
	(C)	Golgi apparatus
	(D)	Centrosome
62.	Colm	odulin is a calcium-binding messenger protein of eukaryotic cells. A single
02.		
	calmo	odulin protein binds to which of the following number of Ca ²⁺ ions?
	(A)	3
	(B)	2
	(C)	1
	(D)	4
63.	I oft 1	anded a heliv in Demachandran plot will have the following values
03.	Len-i	nanded α helix in Ramachandran plot will have the following values
	(A)	High Ψ and low Φ values
	(B)	High Ψ and Φ values
	(C)	Low Ψ and high Φ values
	(D)	Low Ψ and Φ values
64.	The t	orm "dodovy" in Codium dodovyl sulfato raprasants
04.	THE U	erm "dodecyl" in Sodium dodecyl sulfate represents
	(A)	10-carbon chain with an amino group
	(B)	10-carbon chain with a hydroxyl group
	(C)	12-carbon chain with an aromatic ring
	(D)	12-carbon chain
65.	In eul	karyotic cells, the mRNA is transcribed from the nuclear DNA by
	(A)	RNA polymerase I
	(B)	RNA polymerase III
	(C)	RNA polymerase II
	(D)	RNA polymerase IV

66.	The nervous system in an adult animal is derived from which of the following germ layer?	
	(A)	Mesoderm
	(B)	Ectoderm
	(C)	Endoderm
	(D)	
67.	Eryth	ropoietin is mainly synthesized in
	(A)	Heart
	(B)	Liver
	(C)	Kidney
	(D)	Spleen
68.		peciation where gene flow is interrupted due to division of a population into
	geogr	raphically isolated sub-populations is known as
	(A)	Allopatric
	(B)	Sympatric
	(C)	Parapatric
	(D)	Neopatric
69.	Choa	nocytes are found in one of the following phyla
	(A)	Annelida
	(B)	Porifera
	(C)	Arthropoda
	(D)	Mollusca
70.		h of the following is used as a primary dye in acid-fast staining?
	(A)	Safranin
	(B)	Methylene blue
	(C)	Carbol fuchsin
	(D)	Eosine
71.	Which	h of the following amino acids is coded by three codons (AUU, AUC, AUA)?
	(A)	Tryptophan
	(B)	Isoleucine
	(C)	Glycine
	(D)	Tyrosine

- 72. An animal whose body temperature varies with the environment is known as

 (A) Homeothermic
 (B) Poikilothermic
 (C) Endothermic
 (D) Isothermic

 73. Monotremes are

 (A) Mammals with a pouch
 (B) Placental mammals
 (C) Marine reptiles
 (D) Egg-laying mammals

 74. In the 1930s, which of the following organisms was used to formulate
- 74. In the 1930s, which of the following organisms was used to formulate the "one gene-one enzyme" hypothesis?
 - (A) Neurospora crassa
 - (B) Drosophila melanogaster
 - (C) Homo sapiens
 - (D) Penicillium chrysogenum
- 75. In the generalized life cycle of fungi, the union of the cytoplasm of two-parent mycelia refers to
 - (A) Heterogamy
 - (B) Plasmogamy
 - (C) Karyogamy
 - (D) Oogamy
- 76. Skeletal muscle bundles are held together by a common connective tissue layer known as
 - (A) Perimysium
 - (B) Fascia
 - (C) Aponeurosis
 - (D) Endomysium
- 77. The structural units of a compound eye of many insects, crustaceans and polychaete worms are called as
 - (A) Ommatidia
 - (B) Rhabdom
 - (C) Cornea
 - (D) Simple eye

- 78. A severe mental disturbance characterized by psychotic episodes in which patients have a distorted perception of reality is called as
 - (A) Depression
 - (B) Parkinson's disorder
 - (C) Alzheimer's disease
 - (D) Schizophrenia
- 79. The primary function of the sodium-potassium pump across the plasma membrane is
 - (A) to move sodium in and potassium outside the cell
 - (B) to move both sodium and potassium outside the cell
 - (C) to move sodium out and potassium inside the cell
 - (D) to move both sodium and potassium inside the cell
- 80. Which of the following represents the correct order of events during the reproductive cycle of the human female?
 - (A) FSH rise, ovulation, follicular phase, luteal phase, menstruation
 - (B) Menstruation, FSH rise, LH surge, ovulation, luteal phase
 - (C) Follicular phase, luteal phase, LH surge, ovulation, menstruation
 - (D) Luteal phase, menstruation, FSH rise, ovulation, proliferative phase
- 81. The elastic tissue which connects the Cauda epididymis to the scrotal sac is known as
 - (A) Caput epididymis
 - (B) Scrotal ligament
 - (C) Gubernaculum
 - (D) Tendinous cord
- 82. The volume of air inhaled and exhaled with each breath during normal breathing is called as
 - (A) Expiratory reserve volume
 - (B) Residual volume
 - (C) Inspiratory reserve volume
 - (D) Tidal volume
- 83. Which of the following breeds only once in its life time?
 - (A) Dispersed
 - (B) Clumped
 - (C) Iteroparous
 - (D) Semelparous

84.	Whic	h of the following ecosystems consists of forest, grassland and deserts?
	(A)	Terrestrial ecosystem
	(B)	Artificial ecosystem
	(C)	Aquatic ecosystem
	(D)	Natural ecosystem
85.	The s	keleton structure of all amino acids is same except for
	(A)	Lysine
	(B)	Proline
	(C)	Glycine
	(D)	Alanine
86.	What	is the protein found in nail, hair and horns?
	(A)	Collagen
	(A) (B)	Keratin
	(C)	Hemoglobin
	(D)	Myoglobin
	(-)	
87.	What	bond stabilizes the double-helix of DNA?
	(A)	Hydranbahia hand
	(A) (B)	Hydrophobic bond Covalent bond
	(C)	Hydrogen bond
	(D)	Ionic bond
	(D)	Tollic bolid
88.	Identi	ify the unsaturated fatty acid.
	(A)	Lauric
	(B)	Linoleic
	(C)	Palmitic
	(D)	Myristic
	1	
89.	Mega	loblastic anemia is caused by the deficiency of
	(A)	Thiamine
	(B)	Pyridoxine
	(C)	Niacin
	(D)	Folic acid

	(A) (B) (C) (D)	Retinol Pantothenic acid Pyridoxine Folic acid
	` ,	
91.	What	is the SI unit of enzyme activity?
	(A)	Km
	(B)	Kat
	(C)	K _{cat}
	(D)	V _{max}
92.	Whic	h of the following equations shows the relationship between free energy change
	(ΔG)	and the change in entropy (ΔS) , under constant temperature and pressure?
	(A)	$\Delta G = T\Delta H - \Delta S$
	(B)	$\Delta G = T \Delta H / \Delta S$
	(C)	$\Delta G = \Delta H / T \Delta S$
	(D)	$\Delta G = \Delta H - T \Delta S$
93.	Whic	h of the following is an example of amphibolic pathway?
	(A)	Glyoxylate
	(B)	Citric acid cycle
	(C)	Glycolysis
	(D)	Lipid metabolism
94.		h of the following was used in Engelmann's experiment to
	show	photosynthetic activity?
	(A)	Spirogyra spp.
	(B)	
	(C) (D)	Cyanobacteria sp. Penicillium spp.
	(D)	1 cmcmum spp.
95.	The n	oriming function in glycogen synthesis is done by
	-	of the following molecules?
	(A)	Lysine
	(B)	Arginine
	(C)	Glycogenin
	(D)	Glutamate

Which of the following is a component of the coenzyme A?

90.

	aggre	gate is known as
	(A)	HDL
	(B)	Chylomicrons
	(C)	VLDL
	(D)	LDL
	` /	
97.	Whic	h of the following is the energy source for the brain during starvation?
	(A)	Fat
	(B)	Ketone bodies
	(C)	Protein
	(D)	Lipids
98.	Whic	h of the following pairs of amino acids is essential for infants?
	(A)	Methionine and Glycine
	(B)	Valine and Serine
	(C)	Arginine and Histidine
	(D)	Lysine and Leucine
99.	Name	e the type of cell in which synthesis of urea cycle takes places.
	(A)	Pancreatic cell
	(B)	Bowman's gland cell
	(C)	Urinary epithelium cell
	(D)	Hepatocyte
100.	What	is the end product of purine degradation in mammals?
100.	, , 11000	To the charge of parties or graduated in manning.
	(A)	Guanine
	(B)	Inosine
	(C)	Uric acid
	(D)	Hypoxanthine
A		
101.	Which	h of the following genetic disorders is caused by
		eficiency of enzyme HGPRT?
	(A)	SCID
	(A) (B)	Lesch-Nyhan syndrome
	(C)	Cystic fibrosis
	(D)	· · · ·
	\ /	

Triacylglycerol packed with the apolipoprotein and cholesterol in lipoprotein

96.

102.	Who	discovered the cell by observing a piece of cork under a microscope?
	(A)	Louis Pasteur
	(B)	Rudolf Virchow
	(C)	Anton van Leeuwenhoek
	(D)	
	, ,	
103.	Who	discovered ribosome for the first time?
100.	***110	
	(A)	George Emil Palade
	(B)	Theodor Schwann
	(C)	Anton van Leeuwenhoek
	(D)	Robert Hooke
104.	What	is the largest single membrane-bound intracellular compartment?
101.	vv IIuc	is the largest single memorane bound inducentarial comparament.
	(A)	Golgi apparatus
	(B)	Ribosome
	(C)	Nucleus
	(D)	Endoplasmic reticulum
105.	The r	elease of melanosomes from melanocytes is mediated by
100.	1110 1	orease of moranosomes from moranocytes is mediated by
	(A)	Autophagy
	(B)	Endocytosis
	(C)	Exocytosis
	(D)	Pinocytosis
106.	Whic	h of the following carry two nuclei?
100.	VV 111C	if of the following early two fideless.
	(A)	Slime molds
	(B)	Paramoecium
	(C)	Cyanobacteria
	(D)	Amoeba
107.	Whio	h of the following organelles is used for aerobic respiration and
107.	₽.	synthesis in Entamoeba histolytica?
	AII	synthesis in Entamoeoa mstotytica:
	(A)	Hydrogenosome
	(B)	Mitochondria
	(C)	Mitosome
	(D)	Peroxisome

108.	The p	lant organelle that acts as the major site for oxidative reaction is			
	(A)	Peroxisome Mitochondria			
	(B) (C)	Chloroplast			
	(D)	Thylakoid			
	(2)				
109.	Select	t the signal molecule that does NOT interact with cell surface receptor			
	(A)	Insulin			
	(B)	Glucagon			
	(C)	Testosterone			
	(D)	Gastrin			
110.	The n	rocess of nuclear division is known as			
110.	The p	rocess of nuclear division is known as			
	(A)	Interkinesis			
	(B)	Karyokinesis			
	(C)	Polymerization			
	(D)	Cytokinesis			
111.	The n	nolecule used to determine the evolutionary relationship			
	between taxonomic groups is				
		Secretaria de la companya de la comp			
	(A)	23S rRNA			
	(B)	5S rRNA			
	(C)	18S rRNA			
	(D)	16S rRNA			
112.	Which	h of the following bacteria is pleomorphic?			
	(4)				
	(A) (B)	Mycobacteria Streptococcus			
	(C)	Pseudomonas			
_	(D)	Corynebacterium			
110	,				
113.		the acid present in the cell wall of a bacterium that helps in retaining its colour			
	auring	g the acid-fast test			
	(A)	Teichoic acid			
	(B)	Malic acid			
	(C)	Mycolic acid			
	(D)	Tartaric acid			

	(B)	MacConkey agar
	(C)	Blood agar
	(D)	Mannitol salt agar
115.	The a	bility of an organism to resist infection by pathogen is called
	(1)	Allergy
	(A)	
	(B)	Hypersensitivity Infection
	(C)	
	(D)	Immunity
116.	Whic	h of the following antibodies gives primary immune reaction?
110.	vv inc	if of the following uncloodies gives primary infiniting reaction.
	(A)	IgA
	(B)	IgE
	(C)	IgG
	(D)	IgM
117.	Whic	h of the following cells is multipotent?
	(A)	Hematopoietic stem cell
	(B)	T-cell
	(C)	B-cell Management
	(D)	Monocytes
118.	An ex	cample of non-professional antigen presenting cells is
110.	1 111 01	tumple of non-protostonal unugen presenting cens is
	(A)	Macrophages
	(B)	B lymphocytes
	(C)	Fibroblast
	(D)	Dendritic cells
119.	Who	is known as the father of taxonomy?
	(1)	Aristotle
	(A)	Carl Linnaeus
	(B)	Earnst Haeckel
	(C) (D)	Robert Whittaker
	(D)	RODEL WILLIAMS

114.

Which of these is **NOT** a selective medium?

(A) Eosin methylene blue agar

120.	Which	h of the following belongs to the class 'Phanerogamae'?
	(A)	Angiosperm
	(B)	
		Pteridophytes
	(D)	Thallophyta
	, ,	
121.	Which	h organisms have segmental nephridia for osmoregulation and excretion?
	(A)	Aschelminthes
	(B)	Annelida
		Platyhelminthes
	(D)	Arthropoda
122.	The te	endency of two or more than two genes to stay together
	during	g inheritance is known as
	(A)	Crossing over
	(B)	
	(C)	Genetics
	(D)	Linkage
	` /	
123.	Whiel	h of the following is NOT a sex-limited 'trait'?
123.	VV IIICI	if of the following is 1401 a sex-infinited trait:
	(A)	Baldness
	(B)	Milk production
	(C)	Musculature
	(D)	Pitch of voice
124.	The p	edigree analysis is a
	(A)	Linkage map
	(B)	Quantitative genetic analysis
	(C)	
	1007	Record of inheritance pattern
	(2)	record of finicitance pattern
A		
125.	Altera	ation in which of the following chromosomes shows Down syndrome?
	(A)	Sex chromosome
	(B)	18
	(C)	21
	(D)	13

126.	Rearrangement of DNA that involves the breakage and reunion of fragments is known as
	(A) Replication(B) Recombination(C) Translation(D) Transcription
127.	Name the repair system for UV-mediated damage of DNA
	(A) Nucleotide excision repair (B) DNA glycosylase

- (B) DNA glycosylase
- (C) Exchange of homologous segments
- (D) Photoreactivation
- 128. Which of the following is **NOT** a step of mRNA processing?
 - (A) Polyadenylation
 - (B) Splicing of introns
 - (C) 5' capping
 - (D) RNA silencing
- 129. What is the detection technique of auxotrophs?
 - (A) Spread plating
 - (B) Replica plating
 - (C) Pure culture technique
 - (D) Hybridization
- 130. What is the site of spermatogenesis?
 - (A) Seminiferous tubules
 - (B) Epididymis
 - (C) Rete testis
 - (D) Vas deferens
- 131. Name the enzyme which cleaves dsDNA after recognizing specific nucleotide sequences
 - (A) DNA polymerase
 - (B) Ligases
 - (C) RNase H
 - (D) Restriction endonuclease

132.	Name	the vector system used for plant genetic transformation
	(A)	Cosmids
	(B)	M13 phage
	(C)	Ti plasmid
	(D)	Resistance plasmid
		resistance prasima
133.	Which	h of the following is the unit of a genetic map?
	(A)	Angstrom
	(B)	Nanometer
	(C)	Centimeter
	(D)	Centimorgan
134.	What	is supplemented with pro-vitamin A in order to improve its nutritional quality?
	(4)	Tomata
	(A)	Tomato
	(B)	Potato
	(C)	Rice
	(D)	Cotton
135.	The a	sexual mode of embryo formation is
133.	THE a	sexual mode of emotyo formation is
	(A)	Protoplast culture
	(B)	Callus culture
	(C)	Somatic embryogenesis
	(D)	Protoplast fusion
136.	Who j	proposed the concept of 'essential mineral nutrients' of plants?
	(A)	Arnon and Stout
	(B)	Carl Linnaeus
	. 40	Aristotle
4	(D)	Leonhart Fuchs
	₹ ₹	
127	Whiol	of the following engages does NOT need Manganese for its activity?
137.	wine	h of the following enzymes does NOT need Manganese for its activity?
	(A)	Nitrogenase
	(B)	Arginase
	(C)	
	(D)	Pyruvate carboxylase
	, ,	· · · · · · · · · · · · · · · · · · ·

		Perikaryon
	(C)	Glial cells
	(D)	Nissl bodies
140.		the part of the eye which produces aqueous fluid that he front part of the eye:
	(A)	Ciliary body
		Cornea
		Vitreous humor
	(D)	Uvea
141.	What	is the name of the gland which secretes melatonin?
	(A)	Pituitary gland
	, ,	Pineal gland
		Thyroid gland
		Hypothalamus
142.	What	is micturition?
	(A)	Discharge of feces
	(B)	Discharge of sweat
	(C)	Discharge of urine
	(D)	Discharge of sperm
143.	Which	n of the following is the energy source of the sperm?
	(A)	Fructose
	(B)	Proteins
		Lipids
	(D)	Nucleic acids

Name the term which defines the plant movement by touch

Which of the following cells support, nourish and protect the neurons?

138.

139.

(A) Seismonasty(B) Thigmonasty(C) Nyctinasty(D) Photonasty

What	is pedology?
(A)	Study of climate
	Study of leaves
	Study of soil Study of the effect of light on plant growth
(D)	Study of the effect of light on plant growth
Genet	ically different population with the same physical features is known as
(A) (B) (C) (D)	Community Ecotype Ecads Ecosystem
Which	n of the following zones lies at the bottom of the sea?
(A)	Benthic
(B)	Littoral
(C)	Pelagic zone
(D)	Neritic zone
Which	n type of anemia is responsible for the disease thalassemia?
(A)	Hemolytic anemia
	Aplastic anemia
702	Hemorrhagic anemia
(D)	Iron deficiency anemia
An ap	oenzyme is defined as
(A)	a protein portion of an enzyme
(B)	a non-protein group
(C)	a complete, biologically active conjugated enzyme
(D)	a prosthetic group
	(A) (B) (C) (D) Genet (A) (B) (C) (D) Which (A) (B) (C) (D) Which (A) (B) (C) (D) An ap (A) (B) (C) (D)

The process which begins after fertilization is known as

(A) Organogenesis(B) Cleavage(C) Spermiogenesis(D) Embryogenesis

144.

- 150. Who is referred to as 'Father of Genetics'?
 - (A) Gregor Johann Mendel
 - (B) Erich Tschemark
 - (C) Hugo de Vries
 - (D) Carl Correns



FINAL ANSWER KEY									
Subject Name: 611 LIFE SCIENCE									
SI No.	Key	SI No.	Key	SI No.	Key	SI No.	Key	SI No.	Key
1	D	31	A	61	В	91	В	121	В
2	В	32	С	62	D	92	D	122	D
3	A	33	D	63	В	93	В	123	A
4	A	34	С	64	D	94	Α	124	D
5	C	35	В	65	C	95	C	125	С
6	Α	36	C	66	В	96	В	126	В
7	A	37	D	67	C	97	В	127	D
8	С	38	С	68	A	98	C	128	D
9	D	39	C	69	В	99	D	129	В
10	В	40	В	70	C	100	C	130	A
11	D	41	D	71	В	101	В	131	D
12	В	42	A	72	В	102	D	132	С
13	Α	43	D	73	D	103	Α	133	D
14	A	44	C	74	A	104	D	134	С
15	A	45	C	75	В	105	C	135	С
16	В	46	D	76	В	106	В	136	A
17	В	47	D	77	A	107	C	137	A
18	D	48	В	78	D	108	A	138	В
19	C	49	В	79	C	109	C	139	С
20	A	50	В	80	В	110	В	140	A
21	В	51	C	81	C	111	D	141	В
22	В	52	В	82	D	112	D	142	С
23	A	53	C	83	D	113	C	143	A
24	D	54	В	84	A	114	C	144	D
25	D	55	Α	85	В	115	D	145	С
26	A	56	D	86	В	116	D	146	В
27	D	57	A	87	C	117	A	147	A
28	D	58	A	88	В	118	C	148	A
29	Α	59	В	89	D	119	В	149	A
30	В	60	С	90	В	120	A	150	A