ADDIS ABABA CITY ADMINISTRATION EDUCATION BUREAU ADDIS ABEBA

GRADE 12 BIOLOGY MODEL EXAMINATIONS GINBOT 2013/MAY 2021

NUMBER OF QUESTIONS: 100

TIME ALLOWED: - 2 HOURS

GENERAL DIRECTIONS

THIS BOOKLET CONTAINS **BIOLOGY** EXAMINATION. IN THIS EXAMINATION, THERE ARE A TOTAL OF **100 MULTIPLE CHOICE QUESTIONS**. CAREFULLY SELECT THE BEST ANSWER AND **BLACKEN** ONLY THE LETTER OF YOUR CHOICE ON THE SEPARATE ANSWER SHEET PROVIDED. FOLLOW THE INSTRUCTIONS ON THE ANSWER SHEET AND THE EXAMINATION PAPER CAREFULLY. USE ONLY **PENCIL** TO MARK YOUR ANSWERS. YOUR ANSWER MARK SHOULD BE **HEAVY** AND **DARK**, COVERING THE ANSWER SPACE COMPLETELY. PLEASE ERASE ALL UNNECESSARY MARKS COMPLETELY FROM YOUR ANSWER SHEET.

YOU ARE ALLOWED TO WORK ON THE EXAM FOR **2 HOURS**. WHEN TIME IS CALLED, YOU MUST IMMEDIATELY STOP WORKING, PUT YOUR PENCIL DOWN, AND WAIT FOR FURTHER INSTRUCTIONS.

ANY FORM OF CHEATING OR AN ATTEMPT TO CHEAT IN THE EXAMINATION WILL RESULT IN AN AUTOMATIC DISMISSAL FROM THE EXAMINATION HALL AND CANCELLATION OF YOUR SCORE (S).

PLEASE MAKE SURE THAT YOU HAVE WRITTEN ALL THE REQUIRED INFORMATION ON THE ANSWER SHEET BEFORE YOU START TO WORK ON THE EXAMINATION.

DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD TO DO SO.

DIRECTION: Each of the following questions is followed by four possible alternatives. Read each question carefully and BLACKEN the letter of your choice on the answer sheet provided.

- 1. Grade 12 students' wants to learn more about the feeding habits of ants. What steps should students take to best study the feeding patterns of ants?
 - A. Form a hypothesis, conduct an experiment, record data, make a conclusion
 - B. Conduct an experiment, form a hypothesis, make a conclusion, record data
 - C. Form a hypothesis, record data, conduct an experiment, make a conclusion
 - D. Record data, form a hypothesis, make a conclusion, conduct an experiment
- **2.** Mekdes grows the same bacteria in 20 petri dishes. She places 10 of the dishes in a container with a normal atmosphere. The remaining dishes she places in a container in which the oxygen level is double the normal level. She labels the first group "A" and the second group "B." Which statement best describes the groups?
 - A. Group A is the control group; Group B is the experimental group.
 - B. Group A is the experimental group; Group B is the control group.
 - C. Group A is the variable; Group B is the observation.
 - D. Group A is the theoretical group; Group B is the hypothetical group
- **3.** For an experiment, a scientist put lime at the base of tomato plant A and baking soda at the base of tomato plant B. She then sealed the plants in plastic bags. Tomato plant A eventually died, and tomato plant B stayed healthy. What was the dependent variable in this experiment?
 - A. A type of plant grown for the test
- C. Response of the plants to each substance
- B. Substance at the base of each plant
- D. Plastic bags wrapped around each plant
- **4.** How do you check whether the data supports the hypothesis?
 - A. Analyze the data

C. Modify the experiment

B. Predict the outcome

- D. Design the experiment
- **5.** When planning a scientific investigation, what is the first thing scientists do?
 - A. Conduct the experiment
- C. Plan the experiment

B. State the hypothesis

- D. Research the problem
- **6.** A student hypothesized that the amount of sunlight a sunflower plant receives determines the number of sunflower seeds the plant produces. In her experiment, the amount of sun light is the
 - A. independent variable.

C. dependent variable.

B. controlled variable.

- D. uncontrolled variable.
- **7.** Which property of water keeps the bottoms of lakes and the life there being frozen top to down during cold winters in the temperate region?
 - A. its highest density at 4^oC
- C. its high boiling point
- B. Its high heat of vaporization
- D. its high surface tension

8.	An inv	vestigator is interested in seeing how tall a c	ertain species of plant will grow if it is kept
	under	red light for a month. What would be valid	hypothesis for this experiment?
	A.	If the light is red, then the plant will grow.	
	B.	If the investigator uses pea plants, then the	re will be a lot of growth.
	C.	If plants are grown under different colored	lights, they will grow different heights.
	D.	If a month passes, then the plant will grow	under the red light.
9.	Which	of the following properties of water makes	sweat an effective body cooler?
	A.	High surface tension	C. Low density when frozen
	B.	High specific heat	D. High heat of vaporization
10.	How 1	many water molecules are formed when	200 monosaccharaides joined to form a
	polysa	ccharide?	
	A.	199	C. 198
	B.	200	D. 197
11.	In whi	ch of the following compound are both mer	nbers of the pair are polymers of
	carboh	ydrates that are naturally occurring in plant	?
	A.	Starch and chitin	C. Starch and cellulose
	B.	Glycogen and cellulose	D. Glycogen and chitin
12.	Phospl	holipids form bilayers in water because:	
	A.	the hydrophilic head is repelled by the wat	er and the hydrophobic tail is attracted by it
	B.	the hydrophilic head is attracted by the wa	ter and the hydrophobic tail is repelled by it
	C.	both the hydrophilic head and the hydroph	obic tail are attracted by the water
	D.	both the hydrophilic head and the hydroph	obic tail are repelled by the water
13.	Which	of the following group is a functional grou	p of fatty acids?
	A.	A keton group	C. An aldehyde group
	B.	An amino group	D. A carboxyl group
14.	Which	of the following is formed by condensation	of monosaccharaides or hydrolysis of
	polysa	ccharides?	
	A.	Glucose	C. Starch
	B.	Glycogen	D. disaccharides
15.	What 1	make unsaturated fatty acid differ from satu	rated fatty acid?
	A.	The presence of long chain of carbon	
	B.	The presence of one or more double bond	
	C.	The presence of large number of Hydrogen	atom
	D.	There occurrence as solid at room temperat	ure
16.	What s	stabilize primary structure of protein?	
	A.	Ionic bonding	C. Disulphide Bridge
	B.	Hydrogen bonding	D. Peptide bond
17.		are the enzymes used to remove hair in tann	ing industries and process fruit juice
	A.	Protease and Pectinase	C. Amylase and invertase
	B.	Invertase and protease	D. Lipase and amylase

- **18.** Structurally lipids are very diverse group but they are all placed in one group because of what property?
 - A. They are compose of glycerol and fatty acids
 - B. They are important as energy storage
 - C. They are contain four interlocking ring
 - D. Insoluble in polar solvent like water
- **19.** Sucrase has an optimum temperature of 37 C and an optimum pH of 6.2. What would happen if the pH changed to 3?
 - A. Sucrase would continue to work the same
 - B. The reaction sucrase catalyzes would speed up
 - C. The reaction sucrase catalyzes would slow down
 - D. The activation energy of the reaction decrease
- 20. The main reason why rate of enzyme action increases with temperature initially is...
 - A. The kinetic energy of enzymes and substrates increases
 - B. Time passing, allowing more collisions to occur
 - C. The enzymes become denatured
 - D. More substrate is produced, therefore the enzymes become saturated
- **21.** Which of the statements regarding enzymes is false?
 - A. Enzymes are proteins that function as catalysts.
 - B. Enzymes are specific in there action
 - C. Enzymes increase the activation energy of a reaction.
 - D. Enzymes may be used many times for a specific reaction.
- **22.** The transition state of a catalyzed reaction is
 - A. a highly-populated intermediate on the reaction pathway.
 - B. higher in energy than that of an uncatalyzed reaction.
 - C. lower in energy than that of an uncatalyzed reaction.
 - D. lower in energy than the reaction substrate.
- **23.** Enzyme A digests proteins in the stomach (with a pH of 2). Enzyme B digests proteins in the small intestine (with pH of 8). Which of the following is NOT true:
 - A. Enzyme A would be denatured in the small intestine.
 - B. Enzyme A works best in acidic conditions.
 - C. Enzyme A can also work in the small intestine.
 - D. Enzyme A helps in the hydrolysis of proteins
- **24.** If piece of boiled potato is placed in a test tube containing hydrogen peroxide solution, no reaction observed. This is because boiling
 - A. Removes necessary enzymes
- C. Kills the cell

B. Changes the PH inside cells

D. Denatures enzymes

- **25.** In which of the following point does lock-and- key model of enzyme action differ from induce fit model
 - A. Enzyme lower energy of activation
 - B. Substrate bind at the active site of enzymes
 - C. During the reaction, enzyme substrate complex is formed
 - D. The substrate molecule and the active site are complementary
- **26.** Which of the following mechanisms do cell use to regulate enzyme catalyse reactions in metabolic pathway
 - A. Enzyme denaturation

C. Irreversible inhibition

B. End product inhibition

- D. Competitive inhibition
- 27. Which type of enzyme inhibition its effect is reversed by increasing substrate concentration?
 - A. Allosteric inhibition

C. Non-competitive inhibition

B. Competitive inhibition

- D. End product inhibition
- 28. Enzyme are able to lower the activation energy of a chemical reaction by
 - A. increasing the kinetic energy of a substrate molecules
 - B. decreasing the kinetic energy of a substrate molecules
 - C. creating tension on the covalent bond of substrate molecules
 - D. increasing the temperature of the reaction medium
- 29. Transverse diffusion (flip-flop) in plasma membrane is the movement of

A. Cholesterol

C. Amino acid

B. Protein

D. Phospholipid

- **30.** The role of carbohydrate in cell membrane is
 - A. cell adhesion.

C. cell to cell recognition.

B. assisting transport.

D. cell storage reserve.

- **31.** Which of the following would be **MOST** directly affected if the mitochondria in a cell were **NOT** functioning properly?
 - A. Absorption of fatty acid by the cell
 - B. The accumulation of sugar by the cell
 - C. Movement of water into and out of the cell
 - D. Movement of oxygen across the cell membrane
- **32.** A carrier molecule in a cell membrane is a molecule
 - A. moves in and out of a membrane through a pore
 - B. dissolves part of the membrane so that can get through
 - C. moves substance through the membrane by interacting with them
 - D. reacts with substance and propel the products through a membrane
- 33. The fluid mosaic model describes membrane as having
 - A. A set of protein channel by phospholipid
 - B. A bilayer of phospholipid in which specialized protein embedded
 - C. A sugar phosphate back bone that that interconnects specific transport molecule
 - D. Two sheet of protein with a layer of phospholipids sandwich between them

34. At	whi	ch stage most of the carbon dioxide released dur	ing aerobic respiration
	A.	Glycolysis	C. Electron transport
	B.	Chemiosmosis	D. Krebs cycle
35. In	stru	ctural arrangement of cell membrane, the organi	ic molecules which serves as the
stı	uctu	ral backbone and prevent uncontrolled moveme	nt of water soluble material are
	A.	Lipid bilayer	C. Carbohydrate
	B.	Cholesterol	D. Peripheral protein
36. W	hich	of the following processes would be the first aff	Fected by the lack of oxygen in a cell?
	A.	Osmosis	C. Diffusion
	B.	Active transport	D. Facilitated diffusion
37. Bi	olog	ical membranes are normally permeable to whic	h substance using simple diffusion?
	A.	Large, hydrophilic molecules.	C. Small, hydrophilic molecules.
	B.	Large, hydrophobic molecules.	D. Small, hydrophobic molecules
38. W	hat i	s the function of cholesterol within membranes f	functions through its interactions with
bo	th h	ydrophobic and hydrophilic parts of phospholipic	ds?
	Α.	Water blocker	C. pH buffer
	B. '	Temperature controller	D. Fluidity buffer
39. W	hat i	s meant by the term "fluid mosaic model"?	
	A.	It is the diffusion of lipid-soluble substances that	rough the lipid bilayer.
	B.	It is the movement of lipids and integral protein	s within the lipid bilayer.
	C.	It is the method of substance transport across th	e membrane.
	D.	It is the movement of surface proteins through t	he membrane.
40. Th	10. The organelle of cell which is concerned with the synthesis of lipids in addition to being		
as	socia	ated with carbohydrate metabolism?	
	A.	Golgi Apparatus	C. Rough endoplasmic reticulum
	B.	Thylakoid membrane	D. Smooth endoplasmic reticulum
41. W	hich	one of the following products is formed in anae	robic respiration of one molecule of
gl	ucos	e in animal cell?	
	A.	2Ethanol, 2NAD ⁺ , 2ATP	C. 2Lactate, 2NAD ⁺ , 2ATP
	B.	2Lactate, 2CO ₂ , 2ATP	D.2 Ethanol, 2CO2, 2ATP
42. If	there	e is no free oxygen to breath, which one of the fo	ollowing steps of cellular respiration
pr	oces	s can operates?	
	A.	Glycolysis	C. Krebs cycle
		Link reaction	D. Electron transport chain
43. Id	entif	y the correct statement about the role of NAD ar	nd FAD during aerobic respiration.
Tł	ney		
	A. oxidise intermediate products of cellular respiration		
	B. are electron carriers that pump proton into inner membrane space		
	C. are terminal electron acceptors of electron transport chain		
	D.	carry hydrogen atoms that will be split into prof	ton and electron

44.	The m	ain advantage of C4 photosynthesis to preven	t:	
	A.	Transpiration	C. Photorespiration	
	B.	Photosynthesis	D. Transduction	
45.	What l	nappen during electron transport chain? Proton	ns	
	A.	Diffuse down concentration gradient to reduce	ce NAD.	
	B.	Build up in the Intermembrane space than m	atrix	
	C.	Diffuse against concentration gradient through	gh ATP synthesis	
	D.	Build up in the matrix than the Intermembra	ine space	
46.	One of	f the following groups of plants carry out light	t dependent and light independent	
	reactio	on of photosynthesis in separate cells of the lea	af?	
	A.	C-4 plants	C. Temperate plant	
	B.	C-3 plants	D. CAM	
47.	Which	of the following is supplied to the Calvin Cyc	cle by the light reactions of	
	photos	ynthesis		
	A.	CO2 and ATP	C. ATP and NADPH	
		ATP and NADH	D. H ₂ O and ATP	
48.	A gree	n plant is kept in a brightly lighted area for 48	8 hours. What will most likely occur if	
	the light intensity is then reduced slightly during the next 48 hours?			
	A.	A. The rate at which nitrogen is used by the plant will increase.		
	В.	Photosynthesis will stop completely.		
		The rate at which oxygen is released from th	-	
		Glucose production inside each plant cell wi		
		that follow CAM photosynthesis pathway car		
		nt times. Which of the following products are		
		ATP and NADPH	C. Malate and sugar	
		CO2 and sugar	D. Oxaloacetate and malate	
50.	_	g photosynthesis, which of the following acts		
			C. Stroma	
		J 1	D. Matrix	
51.		the following are gram negative bacteria diffe		
			C. Produce more dangerous endotoxin	
			D. Have thick peptidoglycan	
		s the enzyme plays vital role in HIV life cycle		
		nall pieces, which are used to construct a matu		
		E	C. Protease	
		_	D. Reverse transcriptase	
53.		replication reverse transcriptase responsible	for	
		assembly of viral parts		
		conversion of viral RNA to DNA		
		binding of HIV with the host cell		
	D.	integration of Viral DNA into the host DNA		

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B. climax community	D. serial community	
A. final community	C. ultimate community	
63. The final stable community in an ecolog		
B. Precipitation	D. photosynthesis	
A. Burning fossil fuel	C. Lightening	
into a form of plant use?		
	what other process will convert atmospheric nitroge	en
B. Mature industrial stage	D. postindustrial stage	
A. Pre-industrial stage	C. Mechanization of urbanization	
high leading to rapid population growth?	?	
61. In what stage in the demographic transiti	ion theory does death rate fall while birthrate remain	ns
B. Density dependent	D. J shaped growth	
A. Logistic growth	C. Arithmetic growth	
period of exponential growth?		
60. What is the growth pattern in which a	population growth rate slows or stops following	a
B. Shrubs	D. Climax forest	
A. Herbs	C. Lichens	
to colonise harsh environments and repro	oduce?	
59. Which one of the following in primary s	uccession are extremely resilient organisms that abl	e
D. The community becomes more st	table	
C. Food webs become more comple	X.	
B. The number of ecological niches	reduce	
A. Total biomass of the community	increases	
pioneer to climax community?	-	
58. One of the following statements wrong :	about an ecological succession as it passes from	
B. Nitrobacter	D. Desulphovibrio	
A. Thiobacillus	C. Rhizobium	
bodies of organisms?		
57. Which one of the following bacteria in s	ulphur cycle releasing hydrogen sulphide from deac	1
B. It is a final stable community	D. The vegetation tolerant the environment	
A. Has wide diversity of species	C. Colonise by pioneer population	
56. Which of the following is not true about	climax community?	
B. Combustion	D. Fossilization	
A. Respiration	C. Photosynthesis	
CO_2 to the air?	, , , , ,	
	carbon cycle carried out by all living things that ad	d
D. The virus attaches to a host cell r		
C. The Viral DNA is inserted into the		
B. The viral DNA enters the host ce	•	
A. The virus takes over the host cell		
54. Which of the following happens during i	integration of virus in nost cen;	

64. Which of the following process moves carbo	n stored in fossil fuel into the air?	
A. The denitrifying bacteria turns the fossil fuel into carbon dioxide,		
B. Decomposer convert the fossil fuel in	nto carbon dioxide	
C. The fossil fuel reacts with the soil to	produce carbonates and carbon dioxide	
D. When fossil fuels are burned, carbon	entered the atmosphere as carbon dioxide.	
65. Growing legumes such as alfalfa or soy bean	s increase	
A. denitrification	C. nitrogen fixation	
B. ammonification	D. nitrification	
66. Which type of biome is characterized by dry	hot summer and rainy cool winter?	
A. Thorn forest	C. Mountain forest	
B. Rain forest	D. Deciduous forest	
67. In demography transition, which one is the cl	haracteristic of postindustrial stage?	
A. High birthrate and death rate	C. High population growth	
B. Rapid increase in population	D. Low birth rate and death rate	
68. The most important result meiosis is the		
A. Production of four diploid gamete		
B. Production of somatic cell		
C. Production of haploid chromosome		
D. Doubling of chromosome number in	each cell	
69. What is the relationship among DNA, a gene	, and a chromosome?	
A. A chromosome contains hundreds of	genes, which are composed of DNA.	
B. A chromosome contains hundreds of	genes, which are composed of protein.	
C. A gene contains hundreds of chromos	somes, which are composed of protein.	
D. A gene is composed of DNA, but the		
70. Human beings have diploid cells. What is inc	dicated by this statement? human have	
A. homologous chromosome pair	C. two stage of cell division	
B. both sex and somatic chromosome	D. two chromosome in each cell division	
71. DNA fingerprinting recognizes the difference	es in	
A. satellite DNA	C. bulk DNA	
B. repetitive DNA	D. code DNA	
72. The fragments of DNA are joined together by	y which of the following enzymes?	
A. Endonuclease	C. Ligase	
B. DNA polymerase	D. Helicase	
73. If gene frequency between genes a and c is 2	%; b and c is 13%; b and d 4%; a and b 15%; c	
and d 17 and a and d 19%. The sequence of g	genes in a chromosome is	
A. a,d,b,c	C. a,b,c,d	
B. d,b,a,c	D. a,c,b,d	
74. Red-green color blindness is a sex-linked rec	essive trait in humans. Two people with normal	
color vision have a color-blind son. What are	the genotypes of the parents?	
A. X^BX^B and X^bY	$C. X^B X^b$ and $X^B Y$	
$\mathbf{B} = \mathbf{X}^{\mathbf{B}} \mathbf{X}^{\mathbf{B}}$ and $\mathbf{X}^{\mathbf{b}} \mathbf{Y}$	$D X^B X^B$ and $X^B Y$	

75. here is good evidence for linkage when A. two genes occur together in the same gamete. B. a gene is associated with a specific phenotype. C. two genes work together to control a specific characteristic. D. genes do not segregate independently during meiosis **76.** Why mutations are considered important in evolution? A. They are usually related to the environment B. They contribute to new variations in organisms C. they become causes for species migration D. they are always beneficial to the organism 77. The replacement glutamic acid by valine at specific position in the beta chain of hemoglobin leads to sickle cell anemia. This change represents which of the following mutational events A. DNA base pair addition C. DNA base pair substitution B. DNA base pair deletion D. Chromosomal deletion **78.** Which of the Following terms refers to the failure of sister chromatids to separate from one another during anaphase? A. Non-disjunction C. Replication B. Deletion D. Double inversion **79.** Which of the following features is **NOT** true about Klinefelter syndrome individuals (XXY)? A. Reduced facial and body hair C. Complete masculinized features B. Infertile but have enlarged breast D. Broader hip compare to other boys **80.** Genetic code translated the language of A. Amino acid into that of RNA C. Protein into that of RNA B. RNA into that of DNA D. RNA into that of proteins 81. The following diagram shows a fragment of transcribed DNA, and the upper strand is the sense strand. 5' ATTGCC 3' 3' TAACGG 5' The transcribed mRNA can be represented by: A. 3' UAACGG 5' C. 5' TAACGG 3' B. 5' AUUGCC 3' D. 5' GGCAAU 3' **82.** To which primates human are most distantly related? A. Bonobo C. Orangutan B. Gorilla D. Chimpanzee **83.** Which one of the following is relatively equal brain size to human? A. Home ergaster C. Homo neanderthalensis D. Homo hablis B. Homo erectus 84. Theory of origin of life on Earth that states life has always existed in the Universe and always will A. Cosmozoan theory C. Eternity of life B. Biochemical origin D. Special creation

85.	Type of evolution that results in totally un	related species evolving similar structures as a
	result of occupying similar niches	
	A. Convergent	C. Allopatric
	B. Sympatric	D. Divergent
86.	Process by which one species evolves into	many to fill available niches
	A. Stabilizing selection	C. Adaptive radiation
	B. Directional selection	D. convergent evolution
87.	One of the following is the result of conve	ergent evolution?
	A. Finches on the Galapagos Islands	C. The wing of bird and bat
	B. Pentadactyl limbs of mammals	D. The forelimb of mammals.
88.	Which of the following theories explains of	evolutionary changes of living things in terms of
	changes in their allele frequency?	
	A. Darwin's natural selection	C. Inheritance of acquired character
	B. Spontaneous generation	D. Neo Darwinism
89.	The evolutionary theory proposed by Char	rles Darwin was:
	A. Change in populations through tim	ne as a result of mutations
	B. The passing on of genes from one	generation to the next
	C. Change in populations through tim	ne as a response to environmental change
	D. The development of characteristics	
90.	-	er beak finch are able to obtain insects out of trees
bark than the average length beak finches and may not able to crush seed effective as the		
	shorter beak finches do.	•
	A. Disruptive	C. Stabilizing
	B. Directional	D. Sympatric
91.	Stanley Miller performed an experiment t	to prove origin of life they took gas ammonia and
	hydrogen along with	
	A. N ₂ and H ₂ O	C. H ₂ O and CH ₄
	B. CH ₄ and N ₂	D. CO ₂ and NH ₃
92.		be drown from the structural similarity observed
between the flipper of whales and the arm of human?		
	A. The human species begin life in the	e ocean
B. Whales have evolved from early humans that want back to oceanC. Whale are older than human species		
93.	From which species Lucy belongs	
	A. Australopithecus africanus.	C. Australopithecus afarensis
	B. Australopithecus anamnesis.	
94.	•	atoms of a certain radioactive elements whose
		ears would the number of atoms be 12500?
	A. 10,000 years	C. 20.000 years
	B. 30,000 years	D. 40,000 years

5. What is reproductive isolation mechanism called if two species of frogs do not interbreed			
becaus	se they cannot understand the mating calls	s of one another?	
A.	Seasonal isolation	C. Behavioral isolation	
B.	Temporal isolation	D. Isolation by distance	
A stud	ent sometimes got A's on his midterm ex	ams last year when he used his green pen to	
write t	he exams. Now he always takes his lucky	green pens to exams. How did the student's	
supers	titious behavior arise?		
A.	Observational learning	C. Classical conditioning	
B.	Operant conditioning	D. Insight learning	
A chil	d learn how to dance by watching charact	ers on television, but only demonstrate once	
asked	by others. Which one of the following is	the correct term for this kind of behavior?	
A.	Operant	C. Classical	
B.	Insight	D. Latent	
Dogs a	and cats use their urine as marking substan	nce on trees and bushes to indicates other cats	
and do	gs that they have claimed that particular a	area as their own is an example of:	
A.	Social behavioral pattern	C. Territorial behavioral pattern	
B.	Courtship behaviour	D. Communication behavior	
99. If a chimpanzees pills up boxes and climbs on it to reach a bunch of banana hanging from			
ceiling	g, which behaviour is manifested?		
A.	Insight learning	C. Trial and error	
B.	Operant conditioning	D. Latent learning	
. Or	ne of the following is true about a behavio	ur that has a fixed action pattern?	
A.	It is a learned behaviour	C. it does not need a stimulus to trigger it	
B.	It can be perfected through experience	D. it always done in the same way	
	A. A stud write t supers A. A child asked A. B. Dogs a and do A. B. If a ch ceiling A. B. Or A.	A. Seasonal isolation B. Temporal isolation A student sometimes got A's on his midterm ex write the exams. Now he always takes his lucky superstitious behavior arise? A. Observational learning B. Operant conditioning A child learn how to dance by watching charact asked by others. Which one of the following is A. Operant B. Insight Dogs and cats use their urine as marking substant and dogs that they have claimed that particular at A. Social behavioral pattern B. Courtship behaviour If a chimpanzees pills up boxes and climbs on it ceiling, which behaviour is manifested? A. Insight learning B. Operant conditioning	