## YEKA SUB-CITY EDUCATION OFFICE GRADE EIGHT MODEL EXAM 2012 E.C BIOLOGY EXAMINATION

NUMBER OF EXAM:60 TIME ALLOWED: 1 Hour

<u>Inst</u>	<b>Instruction</b> : choose the best answer from the given alternativesand write the letter of your						
choice (	on the given spa	ce provided.					
1	L. The branch of	biology which st	udies about he	redity and ide	entity of organism is kno	wn as	
A.	Taxonomy	B. Ecology C	C. Genetics I	D. Evolution			
	.2.The deficienc	y diseases of vita	min B <sub>1</sub> (Thami	ne ) is called -			
A.	Scurvy B. Bei	riberi C. Night	blindness D.	Rickets			
	3.Biological kn	owledge is neces	sary in all area	ıs of human li	fe except		
	To fight against To conserve na	diseases tural resources	C. To pro D. To gro		•		
	4. Which two ce	II structuresare p	resent both in	plant and an	imal cells?		
	I membrane and			. Nucleus and D. Cell wall a	l Chloroplast nd Ribosome		
		ojects magnified l s 2mm. What wa			nd objective lens of 10×. ect in mm?	If the mag-	
A.	20 mm	B. 0.02mm	C. 0.2r	nm	D. 2mm		
6	.Why animal cel	ls have irregular	shapes when o	bserved und	er a compound microsco	pe? Because	
A.	They have large	deposits of star	ch	C. They lack	rigid cell wall		
В.	They have no co	ell membrane		D. They hav	e large central vacuole		
object?		following parts o	f microscope c	ontrol the am	ount of light passing thr	ough the	
A.	Mirror	B. Eye piece	С. [	Diaphragm	D. Body tube		
8	3. Which one of	the following bo	nes is part of c	ur appendicu	lar skeletal system?		

B. Shoulder C. Vertebral column

A. Sternum

D. Ribs

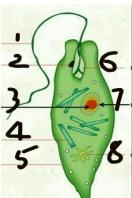
animal	_	mals has a dental form	nula of 3/3, 1/1, 4/4,	2/3, how many total teeth does the
A.	52	B. 32	C. 22	D. 42
1	0 Which one of t	the following statemen	ts is true about the h	uman muscular system ?
B. C. D.	The contraction Cardiacmuscles The contraction	he skeletal muscles is i of cardiac muscles pur are found attached to of smooth muscles is v	mps blood to the boo the Skeleton. voluntary.	
	11. Which of the f	following groups of pla	nts are flowering pla	nts?
A.	Ferns	B. Gymnosperms	C. Mosses	D. Angiosperm
12	2.In which of the	following alternatives t	the plant organ is cor	rectly matched with its function ?
B. C. D.	Root ———————————————————————————————————	manufacture of food. water and mineral ab site of transpiration transportation of foo ral part which is correct top of pistil where swollen bottom p	osorption.  od.  tly matched with its for pollen lands on.	
	_	→ brightly colored p → a thin long structu		
	14. In which of the	he following alternative	es the animal is corre	ctly matched with its types of
habitat	:?			
A. B. C. D.	Fish → terrest Termite → arbo Eagle → aeria Monkey → aqu	oreal animals Il animals		
	15. Which one of	the following insects s	hows incomplete me	etamorphosis?
A.	Butter fly	B. Grasshopper	C. House fly	D. Honey bee

	16.Choose thefalse	statementsabout cas	ts of a honey bee?		
В. С.	Female beesare wo There is only onequ Drones develop fro There is division of	ueen bee per hive.			
	17. Which one the fo	ollowing insects cause	serious damage or	crops?	
A.	Dark moth	B. House fly	C. Bees	D. Butter fl	у
	Answer q	uestion 18 – 19 based	l on the food chain	in the given be	llow
	Grasses	→Grass hopper →	Frogs → Snakes	→ Hawks	
1	8. Which organisms a	are herbivores?			
A.	Hawks B	. Grass hopper	C. Frogs	D. Snakes	
	.19 Which organism	are obtain the least a	amount of food ( er	ergy) from the f	food chain ?
A.	Snakes	B. Frogs	C. Grass hopper	D. Ha	wks
	20. The pyramid w	hich gives the cleares	t general pictures o	f trophic relatio	nships with in a par-
	Ecological pyramid Pyramid of biomass		· ·	amid of energy amid of number	
	21 Which of the fol	lowing natural produc	cts is used as cosme	etics in Ethiopia?	?
A.	Kosso	B.Ensosila	C. Enkoko	D. Nechbahirz	af
	22. In which of the	e following the techno	ological instrument	is correctly mate	ched with its
biologi	cal functions ?				
A. B. C. D.	•	•			
	23.Which of the fo	llowing chemical coul	d not be classified a	as agro- chemica	al?
A.	Herbicides	B. contraceptives	s C. pestici	des D	. fertilizers

	24. Which one indicates the importance of biology for truism industry?						
			C. Use of modern drugs				
В.	Increasing food production	on D	. Conservation of wild	life and ve	getation		
2	25. What is the difference	between a microsco	ppe and a hand lens?				
A.	A microscope usessevera		_				
В.			•	•			
	A microscope magnifies						
D.	A hand lens magnifies sm	hall objects, but not	a microscope .				
	.26.Which one of the follo	wing is a bad farmin	g practice?				
A.	Contour farming	B. Terracing	C. Overgrazing	D. Crop rot	ation		
	.27. Anatural product used	d for coloring hair in	Ethiopia is				
A.	Kosso	B. Hinna	C. Yemichmedh	anit	D. Ensosila		
	28.Which of the followir	ng biological devices	is used to separate diff	erent compo	onents of a		
solutio	on ?						
A.	Stethoscope	B. Incubator	C. Sphygmomanome	ter	D. Centrifuge		
	.29.Which ofthe following	unicellular organisn	n can reproduce by ase	xually binary	/ fission?		
A.	Yeast cell B	. Amoeba	C. Euglena	D. Param	necium		
	30.Which one of the follow	wing is not the contr	ibution of biology to co	ommunity he	ealthy ?		
A.	Prevention of diseases	(	C. Promoting family pla	anning pract	ice		
В.	Production of fertilizer	1	D. Training healthy professional				
	31.Unicellular algae such	as chlorella look like	e a plants. This is becau	use the unice	ellular		
algae a	re						
A.	Heterotrophic organisms	5	C. Aquatic organism	ıs			
В.	Unicellular organisms		D. Photosynthetic organisms				
3	2.Which of the following (	unicellular organisms	s is correctly matched v	with its locor	notion		
structu	re?						
A.	Bacteria → flagella		C. Euglena → ps	eudopodia			
В.	. Amoeba → cilia		D. paramecium→ flagella				

33. Which one of t	the following sta	tements is	orrect ab	oout tissues ?			
<ul> <li>A. Epidermal tissuesprovidemechanical strength to plant body.</li> <li>B. Strengthen tissues involve in photosynthesis process.</li> <li>C. Tissue is a group of cells working together .</li> </ul>							
D. Xylem tissuesconducts synthesizedfood in plant body34. Which of the following is different from the others?							
A. Nerve tissue	B. Epithelial	tissue	C. Epide	ermal tissues	D. Muscle tissue		
35.Which one of t	he following unio	cellular orga	nisms is a	prokaryte ?			
A. Bacteria	B. Yeast	C. Eugle	ena	D. Chlorella			

## Answer question 36 and 37 based on below shown diagram



36.The photo	synthetic cellular or	ganelle ( chloroplas	t ) of euglena shown b	y the number		
A. 6	B. 1	C. 4	D. 2			
37. The locom	otion structure of e	uglena is shown by	the number			
A. 1	В. 3	C. 7	D. 6			

3	8. Which of the following types of animal cells	is correctly matched	its function?			
В. С.	Blood cells→body defense against diseases.  Nerve cells → reproductive functions.  Muscle cells → transmitting nerve impulse.  Skin cells → material transport.					
	39. What do you call the type of sexual reprod	luction in parameciu	m ?			
A.	Germination B. Binary fission	C. Conjugation	D. Sporulation			
4	0.The common products of fermentation in ye	east				
A.	Carbon dioxide and oxygen	C. Lactic acid a	and energy			
В.	Carbon dioxide and alcohol	D. Alcohol and	acetic acid			
	.41. Which of the following human reproduct	ive structure represer	nt the male and female sex			
	respectively ?	·				
A.	Urethra and uterus	C. Penis and v	C. Penis and vagina			
В.	Scrotum and cervix	D. Testes and o	D. Testes and ovaries			
4	2. Which of the following female reproductive	e organ is correctly ma	atched with its function?			
A.	Ovaries $\rightarrow$ sites for maturation of eggs.					
В.	Cervix $\rightarrow$ sites for fertilization process.					
	Oviduct→ sites for pregnancy.					
D.	Uterus → sites for egg production.					
4	3. Which one of the following is effective met	hod of avoiding conce	eption for youngsters ?			
A.	Using contraceptive pills	C. Using co	ondom			
В.	Safe abortion	D. Abstiner	nce from sexual activity			
	44. Choose the one which is common second males?	lary sexual character	ristics of both human males			
A.	Production of eggs	C. Enlargemer	nt of genital organ			
В.	B. Widening of hips D. Deepening of voice					
	45. Suppose in the adult human female, C. When she would get pregnant if she does					
A.	August 1-5, 2012E.C	C.Augu	st 6-9, 2012E.C			
	B Διισιιςt 10-19 2012F C D Διισιιςt 26-30 2012F C					

	46. In which one orson?	f the following meth	nods HIV/AIDS can	not be transmitted from person to
	From motherto baby By sleeping together	during birth		C. By feeding burst milk D. By contaminated needles
	47. Which of the follo	owing is the correct	pathway of the fe	male reproductive system inner to
В. С.	Ovary→ fallopian tu Fallopian tube → o Vagina → ovary Vagina →cervix →u	vary →uterus →ce → oviduct →	ervix→ vagina uterus → cervix	vagina
	48. Which one of the f	following the raw n	naterialfor photos	ynthesis ?
A.	Nitrogen	B. Glucose	C. Oxygen	D. Carbon dioxide
	49.Which of the	following is exotic	tree of Ethiopia	?
A.	Podocarpus	B. Hygenia	C. Eucalyptus	D. Cordia
	50. A green plant can	manufacture starc	h in the presence	of
В. С.	Chlorophyll and carbo Water, light, chloro Light and chlorophyll Light, chlorophyll and	phyll and carbon d	lioxide	
	51.The presences	of starch in green le	aves can be teste	d using
	Benedicts solution Glucose solution		C. Ethanol D. Iodine so	olution
on	* *	ant kept in dark pla	ce, and Leaf two	under different light conditions. Leaf was taken from a plant kept in bright s blue black color?
A.	Leaf one	B. Leaf two	C. Both of th	D. None of them
	53. Which one of t	he following is the o	correct chemical e	quation oflight reaction ?
В.	$C_6H_{12}O_6 + 6O_2$ $\longrightarrow$ $2H_2O$ $\longrightarrow$ $6CO_2 + 12H_2O$ $\longrightarrow$	→ 4H + O <sub>2</sub>		
D.	$C_6H_{12}O_6 + 6O_2$ —	$\rightarrow$ C <sub>2</sub> H <sub>5</sub> OH + 4 C	O <sub>2</sub> + energy	

	54. Choose the or	e which is a nor	n – ruminan	t animal?				
A.	Horse	B. Goat	C. Buffa	lo	D. Cattle			
	55 Which of the fo	llowing steps cor	nes first in t	ree planting p	project?			
A.	Filling plastics bags with soil.							
В.	Distribution of seeds	in to small holes	made in the	e soil.				
C.	Obtaining seeds of tr	ee.						
D.	Keeping the seedling	in moist and sha	dy places.					
	56. Which of the	following is the p	ourpose of t	ransferring a b	poiled leaf into ethanol			
sol	lution while conducting	g starch test in pl	ant leaves					
A.	To activate starch for	mation	C. To	kill the leaf				
В.	To remove chlorophy	·II	D. To n	nake leaf soft				
	57. Which one of the following steps of growing trees helps to reduce the members of seed-lings to minimize competition ?							
A.	Germination	B. Thinning	C. Sp	routing	D. Pruning			
	58. Which of the fe of ruminants?	ollowing shows t	he correct s	teps of food p	assage from the mouth to intes-			
A.	Omasum → Aboma	asum → Reticu	ılum →Rur	nen				
В.	Reticulum →Rumer	n→ Abomasum	→ Omasu	m				
C.								
	Abomasum →Omasum → Reticulum →Rumen  Rumen → Reticulum → Omasum → Abomasum							
••••	59.Which one of	the following is fa	arm animalî	•				
A.	Lion B. Z	ebra C.	Camel	D. Fox				
	60.Which of the fo	ollowing is true at	oout photos	ynthesis				
A.	Chemical energy is ch	nanged into mech	ianical ener	gy.				
В.	Photosynthesis takes	place only in the	chloroplast	S.				
C.	The raw material are soil and water.							
D.	Foodis manufacturing only in the leaf.							