Unit 1

S.N.	Com-petency No.	Level (K or A)	Stem	Figure/Table	A	B	C	D	Key
1	1	K	In which area of development activities does biology play a role by producing herbal medicine?		agriculture	natural products	improvement of our environment	food production	B
2	1	K	Which of the following professionals need training in the field of biology?		Carpenters	Nurses	Pilots	Lawyers	B
3	1	K	Which agrochemical is used to kill weeds?		Fertilizer	Fungicides	Herbicide	Pesticides	C
4	1	K	Which of the following natural products is used to keep the beauty of our body?		Dingetegna	Enkoko	Ensosila	Kosso	C
5	1	K	Which of the following local medicines is used to treat sudden illness?		Dingetegna	Enkoko	Kosso	Yemich medehanit	A
6	1	K	Which one of the following is the use of biology in relation to improve the environment?		Use of selective breeding	Provision of nutrients	Conservation of wild life	Production of cosmetic	C
7	1	K	Which one of the following herbal medicines is used to treat common cold locally?		Kosso'	Enkoko'	Dingetegna	Yemitch medhanit	D
8	1	K	Which one of the following biological knowledges is applicable in agriculture?		Use of chemicals to improve crop yields	Packaging of processed food	Prevention of harmful traditional practices	Prevention and control of human diseases	A
9	1	K	How can biology contribute to the development of a country?		Agro-chemicals are made using biological principles	Only biologists teach about development	Biological principles are against development	Role of biology is restricted to agriculture	A
10	1	K	Which of the following herbal medicines is used to treat both tapeworm and askaris?		"Dingetegna"	"Inkoko"	"Kosso"	"Meterae"	D
11	1	K	Which one of the following is not an agro-chemical?		Fertilizer	Pain killer	Pest killer	Weed killer	B

Unit 1

S.N.	Com-peten-cy No.	Level (K or A)	Stem	Figure/Table	A	B	C	D	Key
12	1	K	Which one of the following negatively affects the environment?		Adding organic fertilizers to the soil	Planting indigenous trees	Introducing harmful chemicals to the environment	Wise use of natural resources	C
13	1	K	Desirable characteristics of plants can be developed through_____.		conservation	deforestation	natural breeding	selective breeding	D
14	1	K	Which one of the following herbal medicines is used to treat tapeworm?		Enkoko	Dingetegna	Kosso	Meterae	C
15	1	K	Genetically modified crops are produced by		cutting and planting	genetic engineering	selective breeding	self- pollinations	B
16	1	K	Which one of the following is a natural product used to stain skin?		Ensosilla	Hina	Incense (Itan)	Nail polish (tifir kelem)	A
17	1	K	Which one of the following biological knowledges can we use to produce offspring?		agrochemicals	cosmetics	nutrients	selective breeding	D
18	1	K	Which one of the following agrochemicals is used to kill weeds?		Fertilizer	Herbicide	Pesticides	Fungicides	B
19	1	K	Which one of the following is the importance of selective breeding?		more production of milk	income reduction	giving less meat	exposition to diseases	A
20	1	K	A natural and traditional cosmetics that is used to dye hair in Ethiopia is: _____		Enkoko	Ensosilla	Hinna	Kosso	C
21	1	K	Which one of the following is true about the role of agriculture in the Ethiopian economy?		Generating income by exporting agricultural products	Generating income by exporting finished products	Generating income by exporting manufactured agricultural products	Contributing the least income generating economic activities in the country	A

Unit 1

S.N.	Com-petency No.	Level (K or A)	Stem	Figure/Table	A	B	C	D	Key
22	1	K	Which sequence of the relationship of biology and development is correctly explained?		Knowledge of biology→Health care professionals →Healthy people →Work and produce more→ Increased income and standard of living → development	Knowledge of biology→Work and produce more →Health care professionals→ Healthy people→ increased income and standard of living→ Development	Knowledge of Biology→ Increased income and standard of living→Health care professionals →Work and develop more→ Development	Knowledge of biology→Healthy people→Increased income and standard of living →Work and produce more→ Development	A
23	1	K	Which one of the following is NOT the contribution of biology?		Keeping community health	Encouraging deforestation	Food production	Using selective breeding	B
24	1	K	One of the following is NOT a role of biology in agriculture?		increasing crop productivity by controlling pests	improving the quality of domestic animals through selective breeding	improving the quality of crops by genetic engineering	maximizing the introduction of harmful chemicals to the environment	D
25	1	K	Which of the following is the contribution of biology to society?		Discovery of minerals in the ground	Conservation and protection of environment	Innovation of computer	Discovery of planets in the universe	B
26	1	K	How can biology contribute to the society development of our country?		To make population decrease	Reducing incidence of diseases and produce more	Minimizing treatment, prevention and control of diseases	Minimizing productivity by using agrochemical	B
27	1	K	What is the role of biology in the field of agriculture?		high yielding animals	disease causing plants	pests attacking plants	less yielding animals	A
28	1	K	Which pair of local herbal medicines is used to treat tapeworm and common cold respectively?		Dingetegna and kosso	Dingetegna and enkoko	Kosso and meterae	Kosso and yemitch medhanit	D
29	1	K	Biology contributes to food security by:		producing cosmetics	producing remedies	provision of nutrients	protection of vegetation	C

Unit 1

S.N.	Com-peten-cy No.	Level (K or A)	Stem	Figure/Table	A	B	C	D	Key
30	1	K	The study of biology is relevant to environment except one:		It contributes to the improvement of the environment	It advises how man can live in harmony with environment	It discourage human to use more chemicals to produce more	It encourage much utilization of natural resource	D
31	1	K	Which biolological knowledge contributes to produce plants with a desired quality?		Agro-chemicals	Selective breeding	Natural breeding	Producing cosmetics	B
32	1	K	Which of the following natural products is used to stain skin?		Kosso	Metere	Ensosila	Hinna	C
33	1	K	Which one of the following professionals is trained in the field of biology?		Physician	Engineer	Electrician	Musician	A
34	1	K	In which of the following areas of development activity is biological study hardly applied?		Health care	Agriculture	Improvement of our environment	Construction	D
35	1	K	Which of the following is the main export item to generate income for Ethiopia?		Coffee	Flowers	Maize	Teff	A
36	1	A	Which animals will you breed if you want to get a high yield of milk and meat?	<table><tr><th></th><th>Milk product per day</th><th>Meat product per day</th></tr><tr><td>I</td><td>30 little</td><td>50 kg</td></tr><tr><td>II</td><td>10 little</td><td>100 kg</td></tr><tr><td>III</td><td>2 little</td><td>80 kg</td></tr><tr><td>IV</td><td>20 little</td><td>70 kg</td></tr></table>	Animal I and Animal IV	Animal I and Animal II	Animal III and Animal II	Animal II and Animal II	B
37	1	A	Which of the following biological knowledge is applied when a farmer needs crop with drought and heat resistance and contain high protein and highly productive?		Crop rotation	Use of agrochemicals	Selective breeding	Natural breeding	C
38	1	A	Which one of the following is NOT a domain of biology? The extent to which people are:		aware of their hereditary background	aware of gender equality in their country	productive in their daily life	free from infectious disease	B
39	1	A	Which one of the following local herbal medicines is used to treat sudden illness?		Kosso	Enkoko	Meterae	Dingetegna	D

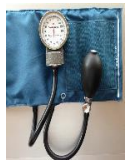
Unit 1

S.N.	Com-petency No.	Level (K or A)	Stem	Figure/Table	A	B	C	D	Key
40	1	A	In Ethiopia, good farming practicies are needed for increasing agricultural productivity and:		destruction or degradation of soil management	minimizing soil erosion by techniques used	increase in agricultural activities for lose soil	allowing soil and air erode	B
41	1	A	How does biology contribute to the improvement of our environment? Through:		increased consumption of natural resources	introduction of harmful chemicals of the environment	over fertilizable by one type of chemicals	conservation of vegetation, soil, water and wildlife	D
42	1	A	How biological knowledge is useful in tourism industry?		Through effective conservation of natural environment	By increasing quantity and quality of food product	By improving the health condition of a community	By increasing natural products	A
43	2	K	Which of the following technological products is used to see small organisms and cells?		Microscope	Stethoscope	Thermometer	Sphygmomanometer	A
44	2	K	Which of the following technological products is correctly paired with its function?		Refrigerator-Enlarge and see objects	Balance-Listen internal body sound	Centrifuges-Separate components in a solution	Sphygmomanometer-Measure weight	C
45	2	K	Which one of the following technological products is used for growing bacteria?		Centrifuge	Incubator	Microscope	Stethoscope	B
46	2	K	What is the function of binocular in life science study? To observe:		small organisms	large organisms	distant objects	internal structures of organisms	C
47	2	K	Which of the following technological products is used in biology lab?		Ammeter	Voltmeter	Loud speaker	Incubator	D
48	2	K	Which of the following statements is correct about the role of technology for biology?		Biology does not need technological products	Technological products benefit from biology	Biology benefits from technological products	Technological products can not fit with biology	C
49	2	K	Biological environmental practices are important for:		killing living things	reducing the impact of negative human activities	not improving natural resources	increasing the negative harmful impacts	B

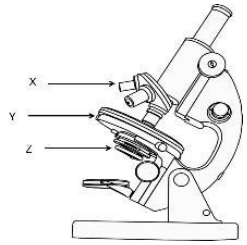
Unit 1

S.N.	Com-peten-cy No.	Level (K or A)	Stem	Figure/Table	A	B	C	D	Key
50	2	K	Which one of the following is correct about the roles of biology in agriculture? It is used to produce:		disease causing animals	fertilizer dependent plants	high yielding plants	herbicide tolerant weeds	C
51	3	K	What do we use to separate substances from a solution?		Centrifuge	Freezer	Incubator	Refrigerator	A
52	3	K	Which technological product is used for protection of the skin?		Rubber	Cosmetics	Dyes	Gum	B
53	3	K	As binocular is for both eyes, stethoscope is for both:		arms	ears	hands	legs	B
54	3	K	As stethoscope is for heart beat, balance is for: _____		body temperature	body weight	physical structure	physical strength	B
55	3	K	One of the following technological products is NOT used in biology?		Binocular	Microscope	Voltmeter	Thermometer	C
56	3	K	The instrument that is used to determine the mass of an object is known as _____.		balance	incubator	thermometer	freezer	A
57	3	K	Which of the following products is paired WRONGLY with its use?		Stethoscope - listen to the sounds produced from the heart and lungs.	Sphygmomanometer - measure blood pressure	Thermometer - measure temperature	Incubator - Promote asexual reproduction	D
58	3	K	What is the importance of a refrigerator?		to keep the food from being infected	to keep the color of the food for a long time	to increase the nutritional value of the food	to increase the toxic nature of the food	A
59	3	K	Which of the following technological products and its function are correctly matched?		Binocular telescope - to see detail structure of organisms	Centrifuge - to measure the weight of small organisms	Stethoscope - to measure the amount of blood pressure	Sphygmomanometer - to measure blood pressure	D

Unit 1

S.N.	Com-peten-cy No.	Level (K or A)	Stem	Figure/Table	A	B	C	D	Key
60	3	K	Which of the following pairs of technological instruments have similar function in biology?		Microscope and Binocular telescope	Microscope and Hand lens	Binocular and Stethoscope	Incubator and Refrigerator	B
61	3	K	Which of the following instruments is used to listen heart beat?						B
62	3	K	Which of the following instruments is correctly matched with its name?		stethoscope 	sphygmomanometer 	incubator 	balance 	C
63	3	K	What do letter "a", "b" and "c" respectively represent in the figure below?		Stethoscope, balance and sphygmomanometer	Balance, stethoscope and sphygmomanometer	Sphygmomanometer, stethoscope and balance	Balance, sphygmomanometer and stethoscope	B
64	3	K	Which technological products used in biology is matched with its function?		Stethoscope - to grow or keep at required temperature	Refrigerator - to listen to internal body sound	Centrifuges - to separate components in a solution	Incubator - to enlarge and see objects	C
65	3	K	Which one is NOT a technological product used in biology?		Microscope	Refrigerator	Sphygmomanometer	Volt meter	D
66	3	A	What do "I", "II" and "III" respectively represent in the figure below?		Centrifuge, Microscope and Thermometer	Microscope, Thermometer and Centrifuge	Centrifuge, Thermometer and Microscope	Thermometer, Centrifuge and Microscope	D

Unit 1

S.N.	Com-peten-cy No.	Level (K or A)	Stem	Figure/Table	A	B	C	D	Key
67	3	A	What do letters "X","Y" and "Z" respectively represent in the figure below?		Objectives, Stage and Diaphragm	Objectives, Stand and Stage	Stage, Objectives and Diaphragm	Eye piece, Stage and Objectives	A
68	3	A	Mr. X wants to see very small objects by using one of the technological product. What type of technological products does he use?						D
69	3	A	Which one of the following technological products is used to measure temperature, blood pressure and weight respectively?		Microscope, thermometer and stethoscope	Thermometer, Sphygmomanometer and balance	Stethoscope, Microscope and Balance	Balance, Stethoscope and Sphygmomanometer	B
70	3	A	The following are pictures of different technological products. Which picture represents a stethoscope?		1	2	3	4	C
71	4	K	Which of the following is used to listen to the sounds produced in our body?		Binocular	Microscope	Stethoscope	Thermometer	C
72	4	K	Which of the following is used to weigh the mass of an object?		Balance	Centrifuge	Stethoscope	Refrigerator	A
73	4	K	What instrument is used to measure blood pressure?		Balance	Sphygmomanometer	Stethoscope	Thermometer	B
74	4	K	Which of the following instruments is used to separate different substances from each other?		Centrifuge	Incubator	Stethoscope	Thermometer	A
75	4	K	Which instrument is used to measure our body temperature?		Centrifuge	Refrigerator	Sphygmomanometer	Thermometer	D

Unit 1

S.N.	Com-petency No.	Level (K or A)	Stem	Figure/Table	A	B	C	D	Key
76	4	K	What is the function of stethoscope? It is used to:		measure body temperature	see very small organisms	listen heart beat	measure blood pressure	C
77	4	K	What instrument should a shopkeeper use to weigh sugar?		Balance	Freezer	Microscope	Refrigerator	A
78	4	K	Which one of the following technological products is used to maintain temperature and humidity level in poultry?		Incubator	Stethoscope	Sphygmomanometer	Binocular Telescope	A
79	4	K	Which one of the following technological products is used to listen our heartbeat?		Thermometer	Microscope	Stethoscope	Sphygmomanometer	C
80	4	K	Which instrument is used to separate substances of definite masses by rotating at a central axis?		Balance	Centrifuge	Freezer	Incubator	B
81	4	K	Which technological product is used to listen to the sounds in the heart and lung?		Binocular	Stethoscope	Sphygmomanometer	Thermometer	B
82	4	K	Which tools are used at the same time to measure blood pressure?		Manual sphygmomanometer with binocular	Manual sphygmomanometer with thermometer	Stethoscope with manual sphygmomanometer	Stethoscope with thermometer	C
83	4	K	Hand lens, incubator and centrifuges are used respectively to:		separate components, see objects and regulate temperature	see objects, regulate temperature and separate components	keep material cool, see objects and separate components	see object, keep material cool and separate components	B
84	4	K	Which one correctly matches the instrument with its use?		Binocular - observation of distant objects	Incubator - measuring body temperature	Stethoscope - prevention of bacterial spoilage	Thermometer - listening to sounds in our body	A
85	4	K	Which of the following technological products is used to indicate temperature?		Stethoscope	Thermometer	Balance	Binocular	B

Unit 1

S.N.	Com-peten-cy No.	Level (K or A)	Stem	Figure/Table	A	B	C	D	Key
86	4	K	Which technological tool is used by doctors to listen the heartbeat of patients?		Thermometer	Stethoscope	Sphygmomanometer	Telescope	B
87	4	K	Which of the following laboratory tools are used to observe cells?		Microscopes	Telescopes	Thermometers	Refrigerators	A
88	4	K	Which of the following instruments is used to observe objects at a distant?		Binocular	Microscope	Hand lens	Electron microscope	A
89	4	K	Field glass instrument used to observe distant objects is called_____.		Binocular	Microscope	Stethoscope	Thermometer	A
90	4	K	What is the use of stethoscope? It is used to:-		listen sounds produced from heart or lungs	look at things that are too small	observe distant objects	measure blood pressure	A
91	4	K	Which one of the following is the use of centrifuge?		Enlarging and see objects	Keeping materials cool	Measuring body temperature	Separating components in a solution	D
92	4	K	Which one of the following instruments do we use to warm young chicks?		Balance	Incubator	Refrigerator	Freezer	B
93	4	K	Which one of the following instruments is used to keep food unspoiled for a long period?		Centrifuge	Freezer	Incubator	Binocular	B
94	4	K	Which one of the following instruments is used to measure body temperature?		Balance	Sphygmomanometer	Stethoscope	Thermometer	D
95	4	K	Which one of the following instruments is used to check our body temperature?		Balance	Sphygmomanometer	Stethoscope	Thermometer	D
96	4	K	Which one of the following instruments would a doctor use to check whether a child has a fever or not?		Stethoscope	Sphygmomanometer	Binocular	Thermometer	D

Unit 1

S.N.	Com-peten-cy No.	Level (K or A)	Stem	Figure/Table	A	B	C	D	Key
97	4	K	Which one of the following instruments would you use to check whether pond water has tiny organisms or not?		Binocular	Centrifuge	Microscope	Sphygmomanometer	C
98	4	K	Which of the following technological products is used to encourage the growth of an organism?		Balance	Centrifuge	Refrigerator	Incubator	D
99	4	K	What is the function of stethoscope? It is used to:		listen the heart beat	observe animals in the field	measure blood pressure	measure temperature	A
100	4	K	How does a freezer store specimens for longer periods? By:		cooling	heating	pressuring	spinning	A
101	4	K	Which instrument do you use to see birds in the field?		Incubator	Hand lens	Binocular telescope	Microscope	C
102	4	K	Which of the following tools is used to observe animals in the field?		Binocular	Balance	Microscope	Stethoscope	A
103	4	K	Which part of a microscope is used to adjust the amount of light through stage?		Fine adjustment	Diaphragm	Coarse adjustment	Arm	B
104	4	K	Which one of the following instruments maintains a constant temperature and humidity level in poultry?		Freezer	Incubator	Refrigerator	Thermometer	B
105	4	K	Which one of the following technological products is used to measure body temperature?		Balance	Sphygmomanometer	Stethoscope	Thermometer	D
106	4	K	In the word "microscope", scope refers _____.		using the microscope in wise way	slide and cover slip	view or look at species	observe distant or far object	C
107	4	K	Which technological products is used to keep materials cool below 0℃?		Incubator	Refrigerator	Freezer	Thermometer	C

Unit 1

S.N.	Com-petency No.	Level (K or A)	Stem	Figure/Table	A	B	C	D	Key
108	4	K	Which of the following technological products is correctly matched with its function?		Telescope - observe distant objects	Thermometer - measure blood pressure	Stethoscope - measure temperature of the body	Sphygmomanometer - listen sounds produced in the body	A
109	4	K	Which technological instruments transfers heat from its internal parts to the external environment to cool the contents inside it?		Balance	Centrifuge	Refrigerator	Incubator	C
110	4	K	An instrument that commonly maintains constant temperature and humidity level for the growing organism is called_____		centrifuge	freezer	incubator	refrigerator	C
111	4	K	Which of the following instruments and its function is correctly matched?		Balances - measure heart beat	Centrifuges - measures weight	Stethoscope - temperature	Sphygmomanometer - measure blood pressure	D
112	4	K	Which of the following technological products maintains a constant temperature and humidity level in poultry?		Freezer	Incubator	Refrigerator	Thermometer	B
113	4	K	Which of the following technological products is used to check whether body temperature rises or falls?		Thermometer	Sphygmomanometer	Stethoscope	Balances	A
114	4	K	Which instrument is used to observe wild animals at a distance?		Binocular	Balances	Microscope	Stethoscope	A
115	4	K	Which of the following technological products is used to observe far objects?		Binoculars	Incubators	Refrigerator	Thermometer	A
116	4	K	What is NOT correct about incubator?		It has constant temperature	It keeps eggs warm until they hatch	Encourage non-living things to grow an environment	It has constant humidity	C

Unit 1

S.N.	Com-petency No.	Level (K or A)	Stem	Figure/Table	A	B	C	D	Key
117	4	K	An instrument used to listen to the sounds produced in heart and lung is:		incubator	stethoscope	sphygmomanometer	thermometer	C
118	4	K	Which of the following technological products is used in laboratories to separate different substances with different masses?		Binocular	Balance	Centrifuge	Incubator	C
119	4	K	Which of the following technological products and its uses are correctly matched?		Incubator - to measure weight	Binocular - to see far objects	Thermometer - to measure blood pressure	Centrifuges - to keep at a required temperature	B
120	4	K	Which technological product is used by biologists to study smaller organisms and cells?		Binoculars	Centrifuges	Microscope	Thermometer	C
121	4	K	Which one is a technological tool used for observing a distant object?		Binocular telescope	Microscope	Sphygmomanometer	Stethoscope	A
122	4	A	What type of instrument is represented by I, II, III, and IV in the table below respectively?	| | Usage in biology | | I | measure mass of organism | | II | check human blood pressure if exceeds 120/80 or not | | III | listen to internal body sound | | IV | check human body temperature |	Sphygmomanometer, Stethoscope, Balance and Thermometer	Balance, Sphygmomanometer, Thermometer and Stethoscope	Sphygmomanometer, Balance, Stethcope and Thermometer	Balance, Sphygmomanometer, Stethoscope and Thermometer	D
123	4	A	Which of the following biological tools and their function are matched?		Refrigerator - collect and preserve animal specimens.	Microscope - compare plant cell with animal cell	Incubator - construct a modern beehive	Stethoscope - examine the structure of a flower -	A
124	4	A	Which one of the following shows the correct match between the technological product and its use?		Thermometer - to measure the length of a leaf	Stethoscope - to observe plant cells	Binocular telescope - to measure the temperature of body	Incubator - to hatch eggs	D
125	4	A	Which one of the following instruments is used to measure body temperature?		Sphygmomanometer	Stethoscope	Incubator	Thermometer	D

Unit 1

S.N.	Com-petency No.	Level (K or A)	Stem	Figure/Table	A	B	C	D	Key
126	4	A	Why do we use a freezer rather than a refrigerator to keep meat un-spoiled for a longer period of time?		Freezers are large in size	Freezers operate for below freezing point of water	It keeps meat above freezing point of water.	Freezers are cheaper than refrigerator	B
127	4	A	If you have common cold (Gunfan) and you want to check your body temperature, which one of the following instruments do you use?		Balance	Sphygmomanometer	Stethoscope	Thermometer	D
128	4	A	Why do we need to use the fine adjustment knob when the middle high power objectives of a microscope are in position? This is because:		coarse adjustment knob does not work with middle and high power objective	the procedure says use coarse adjustment while using middle and high power	if we use course adjustment knob with middle and high power objectives, we may break the lens	if we use the coarse adjustment knob with low power objective, we may break the lens	C
129	4	A	You saw a balance on your way to your school carrying your school bag and you decided to check your weight. The reading of the balance is 50kg and it was much greater than your weight before one week. What is the reason?		You have eaten a lot of meat during the last one week	Your weight is always different if you use different balance	You measured your weight with your school bag	Your age increased by one week and your weight increased	C
130	4	A	A physician put a stethoscope and sphygmomanometer on the arm of a patient and recorded. What information could the physician get using the two apparatuses?		The blood pressure level	The heart beat rate	The breathing rate	The amount of fat on the arm	A
131	4	A	Suppose a researcher wants to study the diversity of animals in Simien Mountain. Which technological product she has to use for this purpose?		Binocular	Centrifuge	Incubator	Stethoscope	A
132	4	A	A medical doctor wants to listen to the patient internal sounds of the body. Which technological products is used for this purpose?		Incubator	Sphygmomanometer	Stethoscope	Thermometer	C
133	4	A	Which technological product do you use to identify microorganisms in a blood?		Incubator and hand lens	Centrifuge and microscope	Binocular and freezer	Stethoscope and thermometer	B

Unit 1

S.N.	Com-petency No.	Level (K or A)	Stem	Figure/Table	A	B	C	D	Key
134	4	A	Alemu was a grade 8 student. He was sick and taken to a hospital. The doctor took an apparatus and tied to it arround his arm and measured something and recorded. What do you think the doctor did? He measured Alemu's:		body temperature	heart beat	blood pressure	breathing rate	C
135	4	A	Which technological products used in biology is matched with its function?		Freezer, to measure mass, microscope	Thermometer, to measure pressure, freezer	Thermometer, to listen heart beat, freezer	Temperature, to measure blood pressure, freezer	C