CENTRAL KENYA NATIONAL SCHOOLS JOINT EXAM 2015 231/3 - BIOLOGY PAPER 3 MARKING SCHEME

- 1. (a) (i) Yellow;
 - (ii) Blue;
 - (iii) PH indicator;
 - (b) (i) Colour changes from blue to green / yellow; (ii) The gas is acidic;
 - (i) White precipitate formed;
 - (c) (ii) Lime water / Calcium hydroxide; (iii) Carbon (IV) oxide;
 - (d) (i) (Aerobic) respiration ;
 - Reject anaerobic respiration.
 - (ii) Glucose + Oxygen; \rightarrow Carbon (IV) Oxide + Water + Energy
 - (iii) For provision of energy.
- 2. I (a) (i) epigeal
 - (ii) cotyledons are above the ground
 - (b) (i) positive hydrotropism in roots
 - positive phototropism in shoot.
 - (ii) Positive phototropism

Light causes lateral migration of auxins away from the light side, towards the darker side; high auxin concentration stimulates growth in the shoot ; thus the cells on darker side grew and elongated faster than the cells on the illuminated side ; causing the curvature towards light;

(iii) Provides yield energy required by the cell for various functions:

Positive hydrotropism.

Water causes auxins to migrate towards the side with water / moisture, auxin, are positively hydrotropic; low auxin concentration stimulates growth in roots, auxin high concentration inhibit growth in roots; the cells on the side away from the water grow and elongated faster; leading to curvature towards water.

- (ii) Phototropism enables plants (shoot) to obtain optimum light for photosynthesis. Hydrotropism by roots enables plants to absorb water and mineral salts for metabolic processes.
- (a) plate 6 stamen plate 7 pistil
 - (b)(i) dioecium
 - (ii) facilitates pollination leading to variation within the species and increase in hybrid vigour.
 - (c)(i) wind pollination
 - (ii) Small incospicuous bracts ; that are dull coloured
 - (d)(i) cross pollination.
 - (ii) male and female parts occur in different plants.
 - the plant pollen grains are sterile to the stigma of the same plant.
- 3. (a) (i) Pisces

Π

- (ii) Aquatic
- (iii)Have gills for gaseous exchange
- (b) (i) fish gills, gills
 - (ii) Site for gaseous exchange
 - (iii) Operculum
 - (iv) Have numerous gill filaments to increase the surface area for gaseous exchange. - Have gill rakers to trap food particles and solid materials which may damage the delicate gill filaments.
 - Have thin epithelium (blood visible) to reduce diffusion distance hence faster exchange of respiratory gases.
- (i) Trachea (c)
 - (ii) It is tubular; hollow ; it has ring of cartilage.
 - (iii) Tubular/hollow to transport respiratory gases ;
 - Have rings of cartilage to keep the trachea open / prevent from collapsing.
 - Have smooth muscles to allow for stretching hence bending of the neck.

CENTRAL KENYA NATIONAL SCHOOLS JOINT MOCK - 2015 565/1 – BUSINESS STUDIES PAPER 1 MARKING SCHEME

1.

1.		
	(a) Basic	
	(b) Basic	
	(c) Basic	
	(d) Secondary	(4 x 1 = 4 mks)
2.		
	(a) Inadequate capital (don't accept lack of:-)	
	(b) Inappropriate marketing strategies thus low sales.	
	(c) Unfair, unhealthy competition.	
	(d) Inefficient management skills.	
	(e) Inadequate manpower	
	(f) Inappropriate technology or poor technology.	(4 x 1 = 4 mks)
3.	(i) inappropriate technology of poor technology.	$(1 \times 1 - 1)$
5.	(a) Price stability / fair prices	
	(b) Good quality products	
	(c) Constant supply	
	(d) Advice on how to use the product / Demonstration on use of product.	
	(e) After-sales services.	(4 x 1 = 4 mks)
4.	(c) The suce services.	(+ x + 1 - + 11 x s)
т.	(a) They offer bank overdraft facilities.	
	(b) Enables the holder to pay creditors using a cheque without necessarily travellin	a to the bank
	(c) One can withdraw large sums of money without any notice.	g to the bank.
	(d) The holder can give postdated cheques if need arises thus enabling clearing of a	dabte at futura data
	(e) Do not have to maintain a minimal balance unlike in other accounts.	(4 x 1 = 4 mks)
5.	(e) Do not have to maintain a minimal balance unitike in other accounts.	$(4 \times 1 - 4111 \times 5)$
5.	(a) Cannot carry a lot of cargo	
	(a) Cannot carry a lot of cargo.(b) Tend to increase congestion on the road.	
	(c) Not suitable for long distance journey.	
	(d) Contribute heavily to air pollution/noise pollution.	
	(e) They use fuel which is expensive to buy.	
		$(4 \times 1 - 4mkg)$
6.	(f) They are prone to accidents and can lead to serious injuries.	(4 x 1 = 4 m ks)
0.	(a) If the caller does not doubt credit worthings of the buyer	
	(a) If the seller does not doubt credit worthiness of the buyer.(b) If the seller wiches to attract more sustamore.	
	(b) If the seller wishes to attract more customers.	
	(c) If the seller is not in urgent need of money.(d) If the trader want to use gradit coles as a competitive tool	
	(d) If the trader want to use credit sales as a competitive tool.	$(4 \times 1 - 4mkg)$
7	(e) If the amount involved is small and the seller is not afraid of taking the risk.	(4 x 1 = 4 m ks)
7.	(a) To facilitate fair distribution of income and recourses	
	 (a) To facilitate fair distribution of income and resources (b) To discourse consumption of hormful goods 	
	(b) To discourage consumption of harmful goods.	
	(c) To correct balance of payment deficit	(4 1 4 1)
0	(d) To subsidize various development projects.	(4 x 1 = 4 m ks)
8.	(a) Cuillating	
	(a) Guillotine (b) Composite mashing	
	(b) Composite machine	
	(c) Photocopiers	
0	(d) Collator	(4 x 1 = 4 m ks)
9.	(a) In successive set of any description	
	(a) Increase in cost of production.(b) Look of account increase in cost of production.	
	(b) Lack of government incentives e.g. subsidies.	

(c) Decrease in price of complementary goods.

(d) Withdrawal of firms from the market.(e) Incidences of strikes i.e. increase.(f) Inadequate factors of production.	(4 x 1 = 4mks)									
10. CC = OP + I + P - D										
P = CC + D - OP - I $470,000 + 100,000 - 250,000 - 100,000 + 100,0000 + 100,0000 + 100,0000 + 100,0000 + 100,00000 + 100,00$										
$470,000 + 100,000 - 350,000 - 100,000\sqrt{570,000 - 450,000}$										
$=$ SH. 120,000 $\sqrt{}$	(4 x 1 = 4 mks)									
11.	``````````````````````````````````````									
(a) Practiced on a small scale.										
(b) Leads to production of low quality goods.(c) Low levels of output										
(c) Low levels of output.(d) Uses simple methods of production.										
(e) Producer engages in multiple production.										
(f) Goods produced are not for sale.	(4 x 1 = 4 m k s)									
(a) Diversification of the economy.(b) Transforming the education system.										
(c) Population control.										
(d) Delocalization to reduce rural-urban migration.										
(e) Encouraging the informal sector / Jua kali sector.										
(f) Lending funds at low interest rates.	(4 x 1 = 4 mks)									
13. (a) Advise on management										
(b) Sell shares										
(c) Performance barometer										
(d) Good management										
(e) Included in journals published by market	(4 - 1 4 - 1									
(f) Facilitates raising of more funds.	(4 x 1 = 4 m ks)									
14. (i) Mark up = $\frac{\text{Gross profit}}{\text{Cost of sales}}$ = $\frac{10,000}{40,000}$ = $\frac{1/4}{\sqrt{1000}}$ (1mk)										
(ii) Margin = <u>Gross profit</u> = <u>10,000</u> = 20% $^{1}/_{5}\sqrt{}$ (1mk)										
Sales 50,000										
Or Margin= $\frac{1}{4+1}$ = $\frac{1}{5}\sqrt{\sqrt{(1mk)}}$										
(iii) Total expenses = $10 \times 50,000 = \text{Sh. } 5,000 \sqrt{\sqrt{100}}$ (1mk)										
$\frac{100}{100}$										
(i) Net profit = Gross profit – Expenses										
$10,000 - 5,000 = \text{sh. } 5,000\sqrt{}$ (1mk)										
15.										
(a) Used to claim goods on port.										
(b) Serves as evidence of contract between the seller and shipping company.										

- (b) Serves as evidence of contract between the seller and shipping company.
- (c) Serves as evidence of receipt of goods for shipment.
- (d) Shows condition of goods when they were availed for shipment.
- (e) Proves ownership as goods by the importer.

16.

- (a) Where the company covers many risks.
- (b) When the possibility of the risk occurring are very high.
- (c) Where there is need to spread various risks insured by the company.
- (d) When the value of the item / property insured is too high and would not be easily compensated by the company.

(4 x 1 = 4mks)

17. Ac Debired Act. Credited (a) Cash account Capital account (b) Purchases account Bank account (c) Drawing account Cash account (d) Creditor account Bank account (d) Creditor account Bank account (a) Changing the form of a commodity. (4 x 1 = 4mks) 18. Cekenas Joint Mock (a) Changing the form of a commodity. (b) Stiling or exchanging the commodity. (4 x 1 = 4mks) (c) Storing the commodities until its required. (d) Selling or exchanging the commodity. (4 x 1 = 4mks) 19. (a) High probability of achieving the set goals. (b) Easy to obtain capital for expansion. (c) Accessibility to the market is enhanced. (d) Continuous production activities. (e) Easy to invest anywhere in the country. (f) Accessibility to raw materials. (f x 1 = 4mks) 20. (a) Offering subsidies (b) Lowering taxes / tax holidays (c) Use of quota system in imports. (f) Training of business persons. (g) Provision of electricity and water. (a) Firms are large in size. (b) Interdependence of firms in the industry. (d) Deal with products that are differentiated. (e) Rivalar anong	(e)	When it is mandatory requirement b	y the government.	(4 x 1 = 4mks)
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(4) resolute mode who violate the bet standards. $(7 \times 1 - 4)$				$(4 \times 1 = 4 \text{mks})$
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24.	24			
(a) Unfair competition) Unfair competition		
(b) Inadequate technology		-		

- (b) Inadequate technology(c) Unstable political environment(d) Insecurity
- (e) Natural calamities

(f) Unfavourable socio-cultural environment.

(4 x 1 = 4 m k s)

25.

- (a) Consumers may be tied to one trader who may not offer quality services.
- (b) Encourage careless handling of goods by the consumer.
- (c) Trader incurs extra expenses or costs thus reducing his profit margin.
- (d) Trader sells his goods at high prices leading to low volume of sales in an effort to recover

3

the after-sales costs incurred. (4 x 1 = 4 mks)

Business Studies Paper 1MS

Cekenas Joint Mock

CENTRAL KENYA NATIONAL SCHOOLS JOINT MOCK - 2015 565/2 – BUSINESS STUDIES PAPER 2 MARKING SCHEME

1. (a)

r	blic Corporation	Private Limited Company					
Iut	*	<u> </u>					
1.	Initial capital is usually provided by the	1.	Initial capital comes from the shareholders.				
	government.						
2.	Established through legislation by an act of	2.	Established by promoters according to the				
	parliament.		company's act.				
3.	Managed by a board of directors appointed	3.	Managed by one or two directors elected by				
	by the government.		shareholders.				
4.	Profits are issued to dividends and the	4.	Profits are distributed and the shareholder				
	government to the members.		on dividends.				
5.	Non-profit motivated.	5.	usually established to earn profits.				

(b)

- <u>Work flow</u> work should flow smoothly with minimal interruption.
- <u>Supervision</u> easy and quick monitoring of staff to discourage absenteeism.
- <u>Working space</u> each worker should have adequate working area for efficiency / concentration.
- <u>Office appearance</u> should be attractive and pleasant to boost the morale of the workers and enhance their performance.
- <u>Communication</u> easy passage of message from the seniors to the juniors / juniors to the senior for quick decision making.
- <u>Minimal movement</u> smooth flow of works with reduced or no staff distraction hence increasing the overall performance.
- <u>Others</u> Proximity to equipment
 - Legal requirements.

2. (a)

- Reduced road accidents as congestion of tankers on roads is reduced.
- Environmental pollution is reduced as pipelines do not emit gasses or smoke.
- Cost of handling oil is reduced since fewer workers are employed.
- Traveling by road to various parts of the country takes a shorter time due to reduced congestion on roads.
- There is no worry of return journey as pipes transport oil in one direction.
- It ensures regular supply after construction and they are more durable and operates 24 hours.
- Pipelines are not easily affected by bad weather, strikes and insecurity along highways (supply is permanently fixed).

(b)

- <u>Statistical problems</u> data collection (National income) may be inaccurate hence wrong per capita income.
- <u>Income distribution</u> if the income is in the hands of few, then we cannot say that people's welfare has improved.
- <u>Nature of products</u> if the products are not meant to satisfy immediate wants of the people, then an increase in per capita income may not lead to a higher economic welfare.

- <u>Change in the value of money</u> if the currency has been devalued there can be change in the value of money without necessarily representing any changes in the welfare of people.
- <u>Social costs</u> some people may migrate from rural to urban areas straining family relationship / increase in industries may create pollution / congestion / other environmental disruptions / such development may make the average citizen worse of than was before the increase in per capita income.
- <u>Quantity of goods and services produced</u> did the increase in per capita income come from increased production of goods and services.
- <u>Change in population</u> if a static population is assumed, a false higher state of the economic welfare of the people will be the result.
- <u>Difficulty in measuring welfare</u> people's wants / aspirations keep on changing / their tastes change over time, hence per capita income method is not the best measure of their welfare.
- <u>People's extraneous works / over sacrifice</u> increased national income may mean less sleep and worries / people don't have time to enjoy what they produce / their welfare may be low despite the rise (National income).

3. (a)

- <u>Auction</u> product is offered for sale to the members of the public and the highest bidder becomes the buyer.
- <u>Haggling / bargaining</u> Buyer and seller negotiate over the price.
- <u>Tendering</u> public is invited to make bids for the supply or sale of a particular product. The person who offers the most reasonable / lowest price usually wins the tender.
- <u>Government intervention</u> government may impose tax or offer subsidies thus determine price. Government may also set a price level at which a product may be sold.
- <u>Recommending or fixing by a producer</u> producer may determine the prices of their products and recommend or even require that they be sold at those prices.

(b)

- <u>Cyclical unemployment</u> occurs due to relatively low general demand for goods and services.
- <u>Structural unemployment</u> caused by changes in production methods, change in technology and changes in demand for goods and services.
- <u>Frictional unemployment</u> occurs when people are unable to secure jobs due to barriers which hinder them from getting jobs.
- <u>Seasonal unemployment</u> occurs due to relatively low demand for labour at certain times of the year.
- <u>Involuntary unemployment</u> results from lack of jobs. People willing to work at the prevailing wages but work is not available.

Business Studies Paper 2MS

4. (a) (i)

2

Cekenas Joint Mock

u)				
(i)		OKUMU TF	RADERS	
<, /	TRADI	NG, PROFIT	& LOSS ACCOUNT	
Dr	FOR THE Y	EAR ENDED	31 ST DECEMBER 2012	Cr
Opening stock		30,000 ✓	Sales	390,000 ✓
Purchases	275,000 ✓		Less Returns outwards	<u>10,000</u> ✓
Add carriage outward			Net sales	380,000 ✓
Less returns outward				
Net purchases	× ,	285,000 ✓		
Goods available for s	ale	315,000 ✓		
Less closing stock		(50,000) ✓		
Cost of sales		265,000 ✓		
G.P c/d		115,000 ✓		
		380,000		380,000
Expenses			Revenue	
Carriage out		8,000 ✓	G.P b/d	115,000 ✓
Wages		20,000 ✓	Commission received	36,000 √
Bad debts		3,000 ✓	Discount received	7,000 ✓
Rates		12,000 ✓		
Insurance		19,000 ✓		
Discount allowed		5,000 ✓		
Total expenses	67,0	000 √		
Net profit c/d	,	91,000 ✓		
Ŧ		178,000		178,000
			(*	$\sqrt{16} x \frac{1}{2} = 8 \text{mks}$
			× ×	,

(ii)

OKUMU TRADERS Balance Sheet As at 31st December 2012

ASSETS Fixed Assets Building Furniture	450,000 ✓ <u>180,000</u> ✓		<u>Capital + Liabilities</u> Capital Add Net profit	689,000 ✓ 91,000 ✓	
Total FA		630,000	Less drawings	25,000 ✓	
Current Asset	S		Net capital		767,000
Stock	50,000 ✓		Current Liabilities		
Debtors	47,000 ✓		Creditors	52,000 ✓	
Bank	250,000 ✓		Bank overdraft	<u>210,000</u> ✓	
Cash	<u>40,000</u> ✓				262,000
		<u>387,000</u>			
		1,017,000			1,017,000
				-	

 $(8 \text{ x} \frac{1}{2} = 4 \text{ mks})$

- (b) <u>Differences between shares and Debentures.</u>
- <u>Open Market Operations (OMO)</u> This is whereby the government through the CBK buys (to increase money supply) or sells (to reduce supply) government securities in the open market.
- <u>Bank lending rates</u> to reduce money supply, the CBK increases the interest rates on loans by commercial banks and vise versa.

Business Studies Paper 2MS

• <u>Selective Credit Control</u> – CBK dictates which sectors within the economy are to be lend money e.g. Agriculture and which sectors not to lend.

3

- <u>Legal reserve requirements</u> CBK requires all Commercial Banks to deposit in its fixed deposit account a certain amount of money to reduce money in circulation. This can either be raised or lowered depending on the economic performance.
- <u>Moral persuasion</u> CBK may persuade the commercial banks to lend or not to lend.
- <u>Liquid / cash ratio</u> CBK sets the liquid ratio that can be easily converted into cash.

(5 x 2 = 10 mks)

 $(20 \text{ x} \frac{1}{2} = 10 \text{ mks})$

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- 5. (a)
 - Production of similar goods
 - Natural calamities
 - Regional conflicts / wars
 - Some members may gain more.
 - Interferences by non-members e.g. developed countries.
 - Lack of willingness by members to contribute financially.

					1112 011	• • • • • •					
(b) I	Dr	THRE	E COLU	MN CASH	I BOOK F	FOR TH	E MONTH	OF JA	NUAR	Y 2009	Cr
Date	Details	Folio	D.A	Cash	Bank	Date	Particulars	Folio	D.R	Cash	Bank
2009						2009					
Jan 1	Balance	b/d		40,000 ✓		Jan 1	Bal	b/d			17,000 🗸
2	Mutiso		2,000 ✓		30,000 🗸						
10	Cash	C1			12,000 🗸	4	Salaries			16,000 🗸	
16	Capital				56,000 ✓	10	Bank	C1		12,000 🗸	
17	Sales			24,000 🗸		14	Wayua		400√		39,600 ✓
20	Mutua		1,632 ✓		16,000 🗸	24	Furnitures				10,400 🗸
20	Odhiambo			7,200 ✓			Bank	C2		40000 🗸	
30	Cash	C2			40,000 ✓	30	Bal	c/d		3,200 ✓	87,000 ✓
			<u>3632</u>	<u>71,000</u>	<u>154,000</u>				400	<u>71,000</u>	<u>154,000</u>

`KIBOKO TRADERS

NB: C_1 and C_2 if not indicated don't award.

6. (a)

- Flexible (more adaptable to changing circumstances)
- Simplicity (easy to manage / organize)
- Quick decision making
- Small size of the market.
- Nature of the products / personal services.
- Small initial capital.
- Few legal requirements.
- Need to retain control.

(b)

- Inadequate basic resources
- Lack of political goodwill.
- Failure to involve the local people in plan formulation stage.
- Natural calamities (floods, landslides) which may destroy properties.
- Over-reliance on donor funding.
- Lack of cooperation and coordination between the executing parties and formulators.

Business Studies Paper 2MS

4

Cekenas Joint Mock