K.C.P.E CHALLENGE

STD. 8 TERM 3 - 2014

SCIENCE

· SAN THE EVER SEPTEMBERS OF THE SECOND STREET	Constitution of the Consti
READ THESE INSTRUCTIONS CAREFULLY	

1	Use an ordinary pencil only.				
2.	Make sure that you have written on the answer sheet.				
	I. YOUR NAME II. YOUR INDEX NUMBER				
formi, a	Any change that interferes with the normal functions of body organs and systems of an animal is called				
	C. good health				
	D. disease transmission				
2.	Which one of the following animals is NOT well matched with its products?				
	A. Cattle - beef, milk, skin				
	B. Sheep - mutton, skin, milk C. Goats - mohair, mutton, milk				
2	D. Poultry - feathers, eggs, meat Which one of the following nutrients is required				
3.	by the body in small quantities?				
	A. Carbohydrates B. Proteins				
	C. Minerals D. Fats and oils				
4.	An expectant mother should avoid too much fats in her diet because they might bring about				
	A. constipation in the mother				
	B. lack of milk for the infant				
	C. less energy in her body				
	D. heartburn and nausea				
5	Which of the following is NOT a stage of HIV				
5.	infection?				
	A. Death stage				
	B. Full blown stage				
	C. Asymptomatic stage				
	D. Symptomatic stage				
6.	The following are signs and symptoms of a				
	certain disease.				
	i) Vomiting.				
	ii) Pain in the joints.				
	iii) Shivering and shaking.				
	iv) Headache.				
	The disease described above is				
	A TR B common cold				

D. tetanus

C. malaria

-	
7.	Which one of the following statements about
1.	STI's is INCORRECT?
	A. STI's cannot be transmitted through kissing
	B. The most effective way to avoid contracting
	STI's is abstinence
	C. STI's are spread through sexual contact
	D. STI's can be passed from mother to the unborn baby
8.	When investigating conditions necessary for
	germination of seeds, a set up in which water is
	first boiled and then cooled is used. The purpose

Time: 1 Hr 40 Min.

A. increase warmth

III. NAME OF YOUR SCHOOL

- B. remove air
- C. reduce the moisture

of boiling water is to

- D. break the seed coat
- 9. Which one of the following is <u>NOT</u> a characteristic of healthy crops?
 - A. Their shoots are strong and grow upright
 - B. They have spots and streaks
 - C. They grow fast
 - D. They have a high yield
- 10. Which one of the following statements does <u>NOT</u> describe interdependence between plants?
 - A. Plants growing on other plants up to maturity
 - B. Plants obtaining food from another plant
 - C. Intercropping legumes with maize in a farm
 - D. A climber twinning on another woody stemmed plant for support
- 11. Three of the following are disadvantages of using hard water. Which one is NOT?
 - A. Hard water clog pipes
 - B. Hard water increases rate of digestion
 - C. Hard water wastes soap
 - D. Hard water stains cooking utensils
- 12. Which ones of the following are the major reproductive organs in both male and female human beings?

A	Vagina and penis	20. The type of animal feeds where specific
	Fallopian tube and urethra	nutrients are mixed together to make a particular
		type of food is known as
	Ovary and testis	
	Uterus and penis	
	ne process by which harmful products are	C. hay D. concentrates
rei	moved from the body is termed as	21. Rotational grazing can be done in three of the
· A.	respiration B. excretion	following ways EXCEPT
C.	reproduction D. accumulation	A. strip grazing B. tethering
	elow is a diagram of a simplified mammalian	C. stall feeding D. paddocking
	eart. 3/	22. Nancy a class eight pupil started complaining
110	4	of the following:
	ab	i) fever iii) diarrhoea
		ii) stomachache iv) dizziness
	6 4 3	The pupil may have suffered from
		A. a deficiency disease
	. And the second	B. HIV/AIDS infection
. W	hich chambers and blood vessels contain	C. an allergy
OX	kygenated blood only?	D. food poisoning
	. 1, 4 a, c B. 2, 3 a, c	23. Which one of the following is INCORRECT
	. 1, 4 b, d D. 2, 3 b, d	about people with HIV/AIDS?
	Thich one of the following living organisms	A. They need balanced diet
	bilharzia flukes enter in water before they	B. Their foods should be undigestable
	an later infect a person?	C. Their foods should include fibre
	Fresh water fish B. Fresh water bacteria	D. Their bodies require rebuilding and
		protection against opportunistic diseases
	. Aquatic worms D. Fresh water snails	
	hree of the following are ways of conserving	24. Solids that do NOT dissolve in a liquid are said
	ater. Which one is NOT?	to be
A	. Repairing leaking pipes and taps	A. solvents B. solutes
В	. Using the sprinkle method of irrigation	C. insoluble D. soluble
	. Planting napier grass along the river banks	25. When the amount of heat is decreased matter
	. Digging trenches and dams to trap run-off	can
	water	A. expand B. melt C. evaporate D. contract
17 D	renching is a method of controlling livestock	26. The softness or loudness of a sound depends
	arasites. Which of the following parasites will	A. the source of the sound
	OT be controlled through drenching?	
	. Tapeworms B. Liver flukes	B. pitch
	. Ticks D. Roundworms	C. the size of vibrations
18. V	Which one of the following is NOT an	D. the object producing it
a	daptation to movement in fish?	27. METAL ROD
	. Gills	
	. Fins	
	. Oily and slippery scales	E/A Wase - Pines
). Streamlined body	WAT T
		Ca W X 7 4
	one of the following statement is <u>NOT</u> true	SOURCE SUPPORT
	bout reptiles. Which one?	OF HEAT
A	. Their body temperature varies according to	Tor and I
	their surrounding	
	3. They lay eggs	Ayako carried out the experiment shown. Which
C	. Their bodies are covered by dry scales	of the following is NOT true about what
). They have claws on their feet	happened shortly after the candle was lit?

A. Nail Z. fell last. B. Nail W fell first C. Heat passed from the hotter end to the other end of the metal rod D. The nails fell off the metal rod immediately 28. Which one of the following is NOT true about a bicycle dynamo? A. It has a magnet in the middle B. Is a simple generator C. It stores electrical energy D. It has many loops of copper wires coiled round the magnet 29. The following are some of the problems caused by soil erosion except one. Which one is it? A. Soil pollution B. Water pollution C. Loss of rich fertile soil D. Difficulty in movement 30. Which one of the following is a disadvantage of using manures and fertilizers? A. Helps plants to grow fast B. Organic manures conserve moisture C. Improve the soil structure D. Manures and fertilizers can scorch plants 31. Which of the following diagrams shows regular reflection of light?

moderation of the second	A ma	1	de metaman
A A A A A A A A A A A A A A A A A A A	rno	В.	madamada umada
C.		D.	

A. be xerophytes B. have thin cuticle C. be deciduous D. be cacti 33. Bright twinkling objects which produce their own light are called A. planets B. stars C. shooting stars

32. Plants with flexible stems are likely to

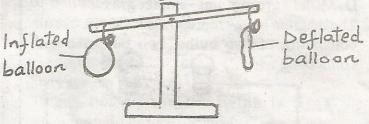
D. stars and sun...

Study the weather chart below.

34.	Day	Morning	Afternoon	Evening		
	Monday	ESS 3	茶四	PPRA		
	Tuesday	类配	* 223	茶		
	Wednesday	PPess	类篮	88		
	Thursday	茶	茶	門教		
	Friday	类	的排			

Which one is the CORRECT statement about the weather chart above?

- A. It rained three times a day
- B. Whenever it rained it was windy before
- C. It was sunny and cloudy every day
- D. There was at least a good day for washing
- 35. Yvonne performed an experiment as the one shown in the diagram below.



What was Yvonne trying to investigate?

- A. Matter has mass
- B. Matter occupy space
- C. Matter contracts
- D. Matter expands
- 36. Which one of the following is NOT true about separation of mixtures?
 - A. A magnet can be used to separate magnetic and non-magnetic substances
 - B. Decanting can be used to separate a soluble substance from a liquid
 - C. Wind must be present in winnowing
 - D. Decanting can also be used to separate immiscible liquids

37.	A feather	of a bir	I floats	on	water	because	of
	its						-

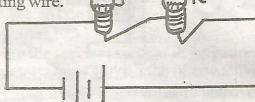
- A. length B. shape C. material D. size
- 38. The diagram below represents classification of plants.

Which two plants are <u>WRONGLY</u> classified from the diagram above?

- A. Algae and coffee
- B. Blackjack and pine
- C. Algae and blackjack
- D'. Coffee and pine
- 39. Which ones of the following plants have the root system as the one in the diagram below?

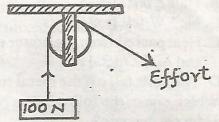


- A. Sorghum wheat coconut
- B. Coconut blackjack maize
- C. Beans peas groundnuts
- D. Millet greengrams napier grass
- 40. The diagram below represents an electric circuit consisting of two bulbs, two batteries and connecting wire.



If bulb J blows up, what will happen to bulb K? It will

- A. not light at all
- B. become brighter
- C. become dim
- D. light just like before
- 41. What happens when a force is applied in the opposite direction of a moving object?
 - A. The moving object increases the speed
 - B. The moving object changes the side
 - C. The moving object stops
 - D. The moving object breaks
- 42. In which one of the following activities is friction NOT needed?
 - A. When sharpening a knife with a file
 - B. When stopping a bicycle
 - C. When smothering a piece of timber using a piece of sand paper
 - D. When sliding a crate of soda across a floor



The diagram shows a load of 100N being lifted using a single fixed pulley. The effort required to raise the load is

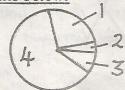
- A. equal to the load
- B. half the load

43.

- C. more than the load
- D. slightly less than the load
- 44. One of the following is <u>NOT</u> a proper care and maintenance of tools. Which one is it?
 - A. Tools should be stored in a dry place
 - B. Tools should be thrown away when they break
 - C. Tools should be handled with a lot of care
 - D. Tools should be cleaned after use
- 45. The commonly used lubricants in moving parts of an engine are
 - A. water and paint
- B. kerosene and petrol
- C. grease and oil
- D. petrol and diesel
- 46. When two boys of the same mass balance on a see-saw they
 - A. sit at different distances from the pivot
 - B. sit at equal distance from the pivot
 - C. make the see-saw break
 - D. need to be supported as they can fall off
- 47. Which one of the following does <u>NOT</u> threaten the survival of living organisms in the soil?
 - A. Organic matter
- B. Herbicides
- C. Pesticides
- D. Inorganic matter

Study the diagrams below.





The air which is found in nodule swellings in roots below is

- A. 1
- B. 2
- C. 3
- D. 4
- 49. Lwangu a class eight pupil breathed on a mirror. The mirror became misty. What was the trying to demonstrate?
 - A. Evaporation
- B. Condensation
- C. Freezing
- D. Melting
- 50. Ohondo was seen taking her six weeks old baby to the clinic. Which of the following vaccine was the baby likely to be given?
 - A. Measles B. BCG C. DPT D. Yellow fever