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MATHEMATICS

14. If  can hold 2.5litres, how many such cups can you obtain from a jerrycan of 20litres?

SECTION A

1. Multiply 7.5 by 10.

2. Write DCCL in words.

3. Given that $K = \{0,1,2,3\}$. How many proper subsets are in set K ?

4. Work out: $7^2 \times 7^0$

5. Kantu had a $2\frac{3}{4}$ kg of sugar. He gave $\frac{1}{2}$ kg of it to his friend. How much sugar did he remain with?

6. Work out: $6 \times 5 = \underline{\hspace{2cm}}$ (Finite 7)

7. Express 1111_{two} in base ten.

8. Find the solution set for the inequality: $-3 \leq k < 4$

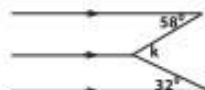
9. The mean of $(y + 49)$, $(y + 40)$ and $2y + 45$ is 78. Find the value of y .

10. Express 1:20am in a 24-hour clock system.

11. Work out the chance of a composite number showing up if a dice is thrown once?

12. Find the diameter of a circle whose circumference is 62.8cm. ($\pi = 3.14$)

13. Calculate the value of k in degrees



15. The pie chart below shows how Lazlo spent her pocket money of sh.240,000.



How much money does she spend on drinks?

SECTION B

16. a) What percentage of the figure below is unshaded?



b) If the shaded part represents the percentage of the salary that Obel saves, how much money does Obel earn if he saves sh.sh.700,000?

17. In a boutique, a skirt costs four-fifths the cost of a shirt and a bag costs sh 45,000 more than the cost of a skirt. Ali bought 3 skirts, 1 shirt and two bags. Find the cost of a bag if she paid sh. 340,000 for all the items he bought.

18. A drum is nine tenths full of water. 4200 litres were used and it remained three eighths full. How many litres does it contain when it is $\frac{11}{16}$ full?

19. a) Solve: $2^x + 32 = 1$

b) Write 0.006074 in standard form.

20. A wooden box full of ceramics cups weighs 22.3kg. The empty box weighs 3.4kg. How many cups are the box if each cup has a mass of 450g?

21. Study the foreign exchange rates below and use them to answer the questions that follow:

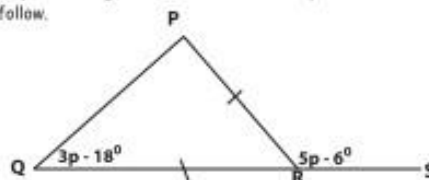
Currency	Selling in Ugsh	Buying in Ugsh
1 British pound	4900	4800
1 US D	3700	3600
1 Kenya (Ksh)	45	39

a) Musa had Ug sh. 1,225,000, which he exchanged he exchanged into British Pounds (£). How much did he get?

b) A tourist has Ksh, 111,000 which she used to buy US dollars. How many dollars was she given?

22. Mr Epuget spent his salary as follows: 31% on fees, 29% on transport,
- $\frac{11}{20}$ of the remaining amount on food and saved the rest. If he spent
- sh. 660,000 on food, find the amount saved?

23. Study the triangle below and answer the questions that follow.



a) Find the value of p.

b) What is the size of angle QRP?

INTEGRATED SCIENCE ANSWERS TO ISSUE 20 (1ST AUGUST 2024)

- Sodium / potassium
- Static electricity
- By use of nitrogen gas
- The density of water reduces/ decreases
- Ovulation begins/ The ovaries start producing mature ova
- Family planning
- To maintain moisture in the soil
- Friction
- Valves prevent the back flow of blood
- Fermentation
- The angle of incidence is equal to the angle of reflection
- Drone bees
- Some plants climb others for support and sunlight
- The blubber helps to keep a whale warm while in water
- To provide warmth for eggs to hatch
- Treponema pallidum
- Clearing bushes around the house/ covering the holes around the compound
- Part B is used for protection from enemies
- By storing drugs in a cool dry place
- Water softens the organic matter which

- quicken the decomposition rate
- A movable pulley reduces the effort used to lift a given load
- Trachoma spreads from one person to another
- To measure the amount of electricity flowing in the circuit
- Dispersal by wind
- By using an hydrometer
- Cockroaches do not have a backbone
- Coffee/ tea / sisal
- Essential drugs are cheap / essential drugs are readily available
- The liver

Section B

- a) Screws
- Some are used for lifting vehicles with poor mechanical conditions eg motor car jack
- An engineer vice / a motor car jack
- a) Dosage prevents drug poisoning among patients
- b) Weight of the patient / the degree of illness
- c) Drug prescription enables the care taker to identify the right drug and dose to give
- a) Melting is reversible

- Immunity / Breast milk is ever ready and at right temperature/ breast milk contains all food values for a child
- a) parallel beam
- It is used to make spectacle which correct eye defects
- short sightedness (myopia)
- The above lens pushes the image to be formed on the retina
- a) Calyx - Protects the flower at bud stage
- Stamen - Produces male gametes
- Corolla - Attracts pollinators
- pistil - Receives male gametes
- a) Natural brooding is when a mother hen offers care and protection to its own chicks
- Natural brooding is cheap / It does not require much care and attention
- a) Blood vessels
- Blood fights against disease causing germs in the body / Blood distributes heat all over the body/ blood transports oxygen to all body parts / blood transports antibodies to areas of infection
- By bring blood to the skin surface (transporting blood)

1. Give another name for horst mountains.
2. How do forests influence the climate of an area?
3. Name the cash crop which is processed at a ginnery
4. State any one negative effect of the Berlin Conference of 1884 to Africa.
5. What type of trade is carried out between two countries
6. How was the IBEACO helpful to the early missionaries in East Africa?
7. Why is the Niger delta of Nigeria densely populated?
8. How are farmers useful to the community?
9. State the factor that led to the growth of Nyamwezi empire during long distance trade.
10. Give one advantage of getting leaders through inheritance.
11. Which group of people introduced the type of money shown in the space below?



12. What shows that Kampala is at a higher altitude than Mombasa?
13. State any one advantage of mixed farming
14. Why did early man live near lakes and rivers?
15. What was the main item of trade from Africa to America during the Trans-Atlantic trade?

31. (a) State any two problems faced by crop farmers in East Africa.
 - i) _____
 - ii) _____
- (b) Mention any two ways crop farmers can improve their yields.
 - i) _____
 - ii) _____
32. a) Give any two terms of the 1900 Buganda



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SECTION A

16. Give any one advantage road transport has over other types of transport.
17. Why did sir Samuel Baker become popular among the people of Acholi?
18. State any one way a country can benefit from a low population.
19. How is Tazara railway important to the economic development of Zambia?
20. Why does the plant shown below commonly grow in desert areas?



21. What is the main tourist attraction at Queen Elizabeth national park?
22. State the relationship between Kenana in Sudan and Kilombero valley in terms of economic activities.
23. Name the agreement that led to the formation of the present boundaries of the East African countries

agreement.

- i) _____
 - ii) _____
- (b) Name the officials who signed the 1900 Buganda agreement on behalf of:
- (i) Buganda - _____
 - (ii) British government - _____

SECTION B

24. What term is used to describe the temperate grasslands of South Africa?

25. Mention any one form of child abuse.

FOR QUESTIONS 26 TO 30 ANSWER EITHER CHRISTIANITY OR ISLAM ONLY BUT NOT BOTH IN A NUMBER.

26. Either: Why did God give Moses a spokesman when He sent him to deliver the Israelites from slavery?

or: Why did Allah give Musa a spokesman when He sent him to deliver Banu Israel from slavery?

27. Either: What is king Solomon remembered for in Christianity?

Or: What is Sulaiman remembered for in Islam?

28. Either: Why was Jesus Christ circumcised when he was eight days old?

Or: Why do Muslims carry out circumcision?

29. Either: Apart from Christianity and Islam, name any other world religion.

Or: Apart from Christianity and Islam, name any other world religion.

30. Either: Mention any one group of people who qualify to get donations in Christianity.

OR: Mention any one group of people qualify to get Zakat in Islam.

- 33 (a) What measure did Nelson Mandela use to unite the whites and Africans when he became president of South Africa?

- (b) State any two methods used to end apartheid in south Africa.

- i) _____
- ii) _____
- (c) Apart from Nelson Mandela, name any other nationalist who fought against apartheid.

