

1. Name one mineral salt replaced when a victim takes ORS.
2. Which type of electricity is produced by insulators?
3. How is semen used for artificial insemination preserved for future use?
4. What happens to the density of water when it freezes?
5. Give one primary sex change that occurs in girls during adolescence stage
6. Which element of primary health care is promoted when a woman carries out tubal ligation?
7. Give a reason for mulching banana plantation
8. In the space provided below draw a symbol of a switch.
9. What force is reduced by making rough surfaces smooth?
10. How are valves important in the human heart?
11. Name the process that turns sugar added to water into alcohol
12. Give any one law of reflection of light
13. Name the type of bees that make a buzzing sound during flight



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INTEGRATED SCIENCE

ISSUE
20

SECTION A

14. Give one way plants depend on other plants
15. How important is blubber to a whale?
16. State the function of the source of heat in an incubator
17. Name the germ that causes syphilis.
18. Give any one way of preventing snake bites at home

The diagram below shows a snail. Use it to answer questions 19



19. Give one importance of part marked with letter B
20. State any one condition under which drugs should be kept to prevent them from losing their curative value.

21. What is the importance of adding water to the heap of compost manure?
22. State one advantage of using a movable pulley over a fixed pulley
23. Give any one reason why trachoma is regarded as a communicable disease.
24. What is the function of an ammeter in an electric circuit?
25. Name the mechanism of seed dispersal in tridax seeds.
26. Give any one method used to separate liquid mixtures of different densities.
27. Why are cockroaches grouped under invertebrates?
28. Name one example of a perennial crop?
29. State one characteristic of essential drugs
30. Which part of the human body is attacked by hepatitis B?

SECTION B

31. a) The diagram below shows a nut and a bolt. Use it to answer questions that follow.



a) Name the class of simple machines to which the above machines belong.

b) How are the above class of simple machines applied in our daily life?

c) Mention any two other examples of the above class of machines apart from what is shown in the diagram.

32. a) Why is dosage important during drug prescription?

b) Apart from dosage, state any two other things involved in drug prescription.

- i) _____
- ii) _____

c) Give one advantage of drug prescription to the care taker of a sick person.

33. a) Why is melting regarded as a physical change?

b) Mention any one application of physical changes in our daily life.

c) State one bad effect of physical changes in the environment.

34. The diagram below shows a farm structure. Use it to answer questions that follow.



a) Mention any one reason why the length of a nursery bed should be constructed in the East-west direction?

b) State any two ways the above structure is useful to crop farmers?

i) -----
ii) -----
c) Why is a shade necessary on the above structure?

35. a) In one sentence, state the meaning of the term environmental pollution.

b) State any two causes of air pollution in the environment.

i) -----

ii) -----
c) Mention one way the government has tried to safeguard the environment against air pollution.

36.a) How does prolonged breast feeding help in child spacing?

b) Why is it recommended to breast feed a child for at least 2 years?

c) State any two advantages of breast feeding to a baby.

i) -----
ii) -----

37. The diagram below shows a lens commonly used in our daily life. Use it to answer questions that follow.



a) Name the type of beam produced by the above lens after refraction has taken place.

b) How is the above lens useful to people in your community?

c) Name the eye defect corrected by the above lens in human beings.

d) Why is the lens above able to correct the eye defect named in c) above?

38. Match the parts of a flower and their functions correctly

Part of a flower	function
a) Calyx	- attract pollinators
b) Stamen	- receive male gametes
c) Corolla	- protect the bud flower
d) Pistil	- produce male gametes

39. a) Give the difference between natural brooding and artificial brooding.

b) State three advantages of natural brooding.

i) -----
ii) -----
iii) -----

40. a) Which structures in the heart prevents blood from going into a wrong direction?

b) Give two functions of blood in the human body.

i) -----
ii) -----
c) How does blood help to regulate body temperature?

MATHEMATICS ANSWERS TO ISSUE 20 (29TH JULY 2024)

1. $6 \div 7$

$\frac{9}{2} \div 3$

$\frac{2}{3} \div \frac{4}{5} = 4 \div 8$

$\frac{2}{3} \div \frac{4}{5} = 4 \div 8 = 8 \div 4$

$\frac{2}{3} \div 12$

$\frac{2}{3} \div 12 = 12 \times 3$

$\frac{2}{3} \div 12 = 12 \times 3$

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$\frac{2}{3} \div 12 = 12 \times 3$

5. $6.16 \times 100 = \frac{616}{100} \times 10 \times 10 = 616$

6. $1m = 100cm$

$40m = 40 \times 100cm = 4000cm$

$25cm$ repr 1 stride

$1cm$ will repr $\frac{1}{25}$ strides

$4000cm$ will repr $1 \times 4000 \times \frac{1}{25} = 160$ strides

He will make 160 strides to cover a distance of 40m

7. $Int < ext < 180^\circ$

Let the ext angle be m

$140^\circ + m = 180^\circ$

$140^\circ + 140^\circ + m = 180^\circ - 140^\circ$

$m = 40^\circ$

No of sides = $\frac{360^\circ}{40^\circ} = 9$

Int < sum = $180^\circ(n-2)$

$180^\circ(9-2)$

$180^\circ \times 7 = 1260^\circ$

8. $1ha = 10,000m^2$

$0.089ha = 0.089 \times 10,000m^2$

$= 89 \times 10,000m^2$

$\frac{1899}{1} = 89 \times 10m^2 = 890m^2$

9. B

10. Let the LCM be k

$A \times 8 = LCM \times 6CF$

$108 = LCM \times 3$

$108 = k \times 3$

$\frac{108}{3} = \frac{k}{1}$

$36 = k // k = 36$

The LCM is 36

11. $1011 = 1 + 0 + 1 + 1$

$= 3$

$= 3 \div 3 = 1$

1011 is divisible by 3

12. sh. 7 2 0 0 0

sh. 6 0 0 0 0

sh. 1 2 0 0 0

sh. 12000 - sh. 6000 = sh. 6000

$\frac{sh. 6000}{sh. 12000} \times 100\%$

$= \frac{1}{2} \times 100\%$

$= 50\%$

The decrease was 50%

13. H T O Th Hdth

6 9 9 . 7 9

$\frac{700}{1000}$

$\frac{699.79}{1000} \approx 0.69979$

14. $1m = \frac{1}{1000}km$

$1sec = \frac{1}{3600}hr$

$(1 \times 25)km = \frac{1}{3600}hr$

$\frac{25}{3600}km \times \frac{3600}{1}hr$

$\frac{25}{1}km \times \frac{3600}{1}hr$

$\frac{25 \times 3600}{1}hr$

$\frac{90000}{1}hr$

$\frac{90000}{1}hr$

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$\frac{90000}{1}hr$

$-sh.2500 = sh.500x$

$\frac{-sh.2500}{sh.500} = \frac{sh.500x}{sh.500}$

$-5 = x // x = -5$

17. $1m = 100cm$

$1m^2 = 10000cm^2$

Area of the rectangular

$A = L \times W$

$= 7m \times 5m = 35m^2$

$1m^2 = 10000cm^2$

$35m^2 = 35 \times 10,000cm^2$

$= 350,000cm^2$

Area of the square

$A = S \times S$

$= 20cm \times 20cm = 400cm^2$

No of tiles = $\frac{350000cm^2}{400cm^2} = 875$ tiles

18. a) $A = S \times T$

$= 14cm \times 14cm = 196cm^2$

b) area of the circle

$A = \pi r^2$

$= \frac{22}{7} \times \frac{14}{2} \times \frac{14}{2}$

$= \frac{22}{7} \times 7 \times 7$

$= 154cm^2$

Area of the shaded part

$196cm^2 - 154cm^2 = 42cm^2$

19. $3 - 4 = \dots \pmod{5}$

$(5 + 3) - 4 = \dots \pmod{5}$

$8 - 4 = \dots \pmod{5}$

$3 - 4 = 4 \pmod{5}$

b) $m^2 = 121$

$m^2 = 1 \times 3^2 + 2 \times 3^1 + 1 \times 3^0$

$m^2 = 1 \times 3 \times 3 + 2 \times 3 + 1 \times 1$

$m^2 = 9 + 6 + 1$

$m^2 = 16$

$\sqrt{m^2} = \sqrt{16}$

$\sqrt{m^2} = 4$

$\sqrt{m^2} = 4$

$\sqrt{m^2} = 4$

$\sqrt{m^2} = 4$

$\sqrt{m^2} = 4$

$\sqrt{m^2} = 4$

$\sqrt{m^2} = 4$

$\sqrt{m^2} = 4$

$\sqrt{m^2} = 4$

$\sqrt{m^2} = 4$

$x + 8 = 10$

$x + 8 - 8 = 10 - 8$

$x = 2$

b) $50 \times 3 + 40 \times 5 + 80 \times x$

$= 150 + 200 + 80x$

$= 350 + 80x$

$= 350 + 80 \times 2$

$= 350 + 160$

$= 510$

Average mark = 51

50, 50, 50, 40, 40, 40, 40, 80, 80

2 pupils scored above the average

21. a) 305, 350, 503, 530

b) $530 - 305 = 225$

22. $q ha = 10,000m^2$

$16 ha = 16 \times 10,000m^2$

$= 160,000m^2$

$S \times S = 160,000m^2$

$\sqrt{S \times S} = \sqrt{160,000m^2}$

$\sqrt{S \times S} = 400m$

$S = 400m$

$P = 4 \times S$

$= 4 \times 400m$

$= 1600m$

$1000m = 1km$

$1m = \$

SUB-SECTION I

Use the words in brackets to fill gaps correctly.

- Bob is _____ than his brother. (thin)
- The three _____ hid in a small hole. (mouse)
- Mulemba's cows are _____ near my daddy's farm. (graze)
- The new maid talks _____ than her sister. (soft)
- The timekeeper has just _____ the bell. (ring)
- A friend of _____ was admitted to Mulago hospital. (they)
- What was the _____ about? (announce)
- Baby Daniella ate _____ food. (poison)

Fill in the gaps with the most suitable word.

- Mrs. Kankya, the _____ sold to us a nice loaf of bread.
- Kraal is to cows as _____ is to lions.
- They are _____ hardworking pupils that they will perform well in their examinations.
- _____ I see him, I will not settle down.
- How _____ money do you have in the bank?
- That man you see over there is _____ European.
- The _____ didn't cut her hair properly.

Write the follow abbreviations in full

- aka _____
- R.S.V.P _____

Re-write the sentences giving the opposite of the underlined words.

- Our car jammed on the left hand side of the road.
- He goes to work by public means of transport.
- Nakawaoya bought ripe mangoes.

Mr. John Ituuma
St. Theresa Namityango GirlsMr. Robert Kavuma
Gayaza Junior SchoolMonica Nakabugo
Uganda Martyrs Primary School Katwe

ENGLISH

SECTION A

SUBS-SECTION II

Make a correct sentence from these words below.

- Sarah as is not short Mary as.
- it heavily although rained we came, to school.

Given plural form of the underlined words.

- The sheep got lost in the thick forest.
- Donle's wife is very hardworking.
- It is difficult to complete the syllabus.

Use the words below to construct meaningful sentences to show the difference in their meanings

- sell _____
- sale _____

Give one word for the underlined group of words

- The people watching a football match were very surprised at the referees decision
- Anisha kept all the bags and suitcases in the boat.
- The young bird is in its nest.

In questions 31-40, rewrite as instructed in the brackets.

- Katusabe woke up early. She wanted to board the first bus. (Join using... in order to...)
- Katalina is weak. She can't stand for an hour. (Join using... enough to...)
- Daddy will come for me. Mummy will come for me. (Begin: Either...)
- She is very poor but very happy. (Begin: Although...)
- If I perform well, I will study in South Africa. (Join using... would...)
- Cathy went to bed after saying a prayer. (Join the sentence using... before...)
- If Betty doesn't revise her notes, she won't pass the exams. (Begin: Unless...)
- Do you know that man? He works at the post office. (Join the sentences using... who...)
- Most pupils like swimming more than singing. (Rewrite the sentence using... prefer...)
- Nagujja is not going to America. Brennan is not going to America. (Rewrite as one sentence beginning: Neither...)

SECTION B

41. The notice below appeared in Bukedde newspaper of Saturday, 11th JULY 2024. Use it to answer the questions that follow in full sentences.

Vaccinations

The public is hereby informed that there will be a vaccination of all dogs at the veterinary office in Kibuli, Mutajjazi.

Date: Sunday 18th October, 2024.

Time: 8:00-12:00noon

All dogs that will miss the exercise will be poisoned.

By Kaita Alozo.

Question

- What is the notice about?
- When did the notice appear in the newspaper?
- In which newspaper did the notice appear?
- On which day will the dogs be vaccinated?

5. In which month will the vaccination take place?

6. Where will the vaccination take place?

7. At what time will the exercise start?

8. Why do you think the dogs should be taken for vaccination?

9. What will happen to the dogs that will miss this vaccination?

10. Who wrote the notice?

42. Read the poem below and answer questions that follow in full sentences.

Security Alert
Fellow Ugandans
What has happened today?
Why kill your own brother?
Why shed blood for the innocent?

People kill one another
No one cares for the friend.
Mob justice everywhere
Women crying in pain.

Guard your life
Protect the young ones
Move in groups
Report suspicious people
Adeline Ketty

QUESTIONS

- Who wrote the poem?
- How many stanzas does the poem have?
- Give the title of the poem.
- What is the poem about?
- Why do women cry?
- Where is mob justice found?
- What must we guard?
- Which group of people should be protected?
- Where should suspicious people be reported?
- How should people move according to the poem?

43. Read the passage below and answer questions that follow in full sentences

Postal services

Many years ago, people lived together. The children, parents and grandparents lived together as one family. Everyone knew what was happening to everyone else in the community. Messengers would take messages by the word of the mouth. Life has changed in recent years. Families no longer live close together. Family members live in different places and yet there is need to remain in contact. Today, the post office is connecting people through messages. Messages may be delivered by writing letters, sending telegrams, faxes parcels or making telephone calls.

In every country, the postal system is responsible for the safe delivery of letters and parcels.

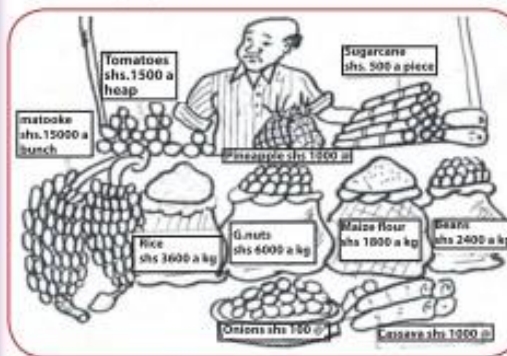
With the help of EMS (Expedited Mail Service), letters and parcels are delivered door to door. The post office rents out private letter boxes to individuals, institutions and companies.

Another service offered by the post office is sending money to individuals and companies. The post office also runs post buses which provide transport to passengers. The post office also provides telegrams, directories, faxes and internet services. It also sells stamps, aerogrammes, envelopes and tokens. The post office also provides banking services people are encouraged to open up accounts with the post bank.

QUESTIONS

- How did people live long ago?
- How did people send messages at that time?
- Which organisation provides services in Uganda?
- How are mails delivered under EMS?
- What is fixed on envelopes before letters are posted?
- Mention any two services rendered by the post office.
- How does the post office help passengers?
- Write in full
a) EMS _____
- Which bank is mentioned in passage?

44. Kasadha Bvakika, a known farmer in Mayuge District set up a stall shown below at his home. This was after the fuel prices had been increase, so he realized it was going to be costly for him to transport his agricultural produce to Jinja market, customers started to come for shopping at his stall.



QUESTIONS

- Who is the owner of the stall above?
- When did he set up this stall?
- How many people are selling the items?

d) How much was a kilogram of rice?

e) Which was the cheapest item in the stall?

f) Write down the most expensive item in the stall.

g) What is the total cost of a kilogram of rice and that of beans at the stall?

h) What is the cost of an onion at the stall?

i) If Moses bought a piece of sugarcane, two heaps of tomatoes and a bunch of matooke how much would he pay?

j) Suggest a suitable title to this information.

45. Imagine you are pupil in Adilang primary school P O Box 58, Agago. Write a letter to your parents and invite them to school to come and attend a sports day on 10th August 2024 at the school playground Request them to buy for you scholastic materials which you will use to write your mock examinations this month. Also request them to pay money for the tour which is likely to be there on the 20th August 2024. Use your school address.

SST ANSWERS TO ISSUE 20 (29TH JULY 2024)

- Pollution/ bad smell/ high spread of diseases/ poor sanitation
- It promotes trade/ promotes industrialisation/ promotes tourism
- Radios spread/broadcast information to many people at once
- It makes communication easy/ it promotes trade/ it promotes national unity
- Ferry
- He translated the New Testament Bible into Kiswahili/ He introduced a Kiswahili dictionary
- Wars in the neighbour countries
- Long distance trade
- Ghana had a lot of gold/ Ghana had a lot of food/ Ghana had strong fighting weapons
- Flat hooves enable camels to move easily in desert sand
- It led to abolition of slave trade/ slave trade was stopped
- This is trade which is allowed by law/ according to the constitution
- He started a school of sailors at port Sagress/ he built strong ships/ he invented a compass
- To establish British rule in Uganda

- Displacement of people/ it has led to death of people/ destruction of property/ imprisonment of people/ loss of land
- By constructing valley dams
- Hotels provide accommodation to tourists/ food/ entertainment
- Rivers have waterfalls that help in generating hydro electricity power/ rivers provide water for cooling industrial machines
- Mud fish
- It is cheap/ it has many means/ it provides door to door services
- They came to stop slave trade
- Africans learnt their rights/ their rights were defended/ they got independence from the colonialists
- Multiparty system
- To work on the failures of OAU /OAU had achieved most of its objectives
- East African Legislative Assembly
- Either / Or: God sent a plague of boils/ flies/ frogs/ locusts/turned water into blood/ death of all firstborn sons and animals/ darkness/gnats/ hailstorms

- Either: Through the holy spirit
Or: He moved from Mecca to Medina/ he made Hajira
- Either: to receive the body and blood of Jesus Christ/ to strengthen their faith in God
Or: To strengthen their faith in God/ to fulfil the fourth pillar of Islam
- Either / Or: To know more about God/ to learn God's word/ to strengthen their faith in God
- Either: A person who is ordained to give service to God and people
Or: A male Moslem who leads prayers in a mosque
- a) This is tax charged on imports/ goods entering into a country
b) It promotes development in a country /it enables a government to provide social services /the government gets income
c) To encourage more investors to come to Uganda
- a) They are used for communication/ to tell time/ to provide light/ used as calculators/ for entertainment/ to listen to news/ to send and receive mobile money
b) They use them to steal/ to tell lies/ to watch pornography/

- to give wrong information to people/ to incite violence
- a) Accidents/ defilement/ kidnapping/ bullying/ teasing/ lack of furniture/ corporal punishments/ they are not given food/ lack of basic needs
- b) They get friends/ they learn to interact with other children/ they develop talents like swimming, playing football, playing netball
- a) Tropical climate
b) One dry season
c) Land preparation/ harvesting ready crops/ drying harvested crops/seed selection/
- a) Afrikaans
b) Orange free state/ Natal province/ Transvaal
c) The coming of the British/ the British introduced harsh laws to the Boers/ the British imposed high taxes to the Boers/ the British introduced English as the official language to the Boers/ the British stopped the Boers from carrying out slave trade
- a) By organizing peaceful demonstrations/ protests
b) By writing posters protesting against forms of oppression
b) By arresting protesters
By killing protesters
By imprisoning people who take

- part in demonstrations
- c) They lead to destruction of property
Death of people/ imprisonment of people/ looting of people's shops/ hinders trade/ tourism
- a) Age/ sex/ religion/ tribe/ occupation/ marital status/ level of education/ number of children/ number of animals
- b) False information was given to them / Poor transport /Harsh weather / People who refused to counted
- a) They cause rainfall in areas they flow
b) The rotation of the earth
c) RRR harmattan winds
SSS SouthEast trade winds
- Either: / Or a) The state/ condition when one achieves a set goal
b) Working hard/determination/ getting good advice from friends/ obedience/ prayers/ having faith in God/ confidence/ patience/
c) Due to laziness/ lack of faith/ poor advice from people/ fear/ due to pride/ disobedience/ dishonesty/ lack of determination
40. Either-a) Prayer brings Christians closer to God
Prayer helps Christians to