ANSWERS TO PASS PLE ISSUE 34 (AUGUST 17TH 2023)

ANSWERS TO ISSUE 39

1. It shocks people to death/ it causes fire outbreaks in a home/ it soils electrical devices
2. To get land for farming/ to get space for settlement/ to get space for road construction/ to get space for industrialisation/ to get poles for building/ to get timbers / to get wood for charcoal burning
3. The lungs
4. By giving a lot of fluids
5. To increase friction between it and the ground
6. It is spread through having unprotected sexual intercourse with an infected person
7. Modern bee hive
8. The molecules of gases are far apart to transfer heat by conduction
9. It provides manure for making soil fertile for crop growth/ oxen are used for ploughing where crops are grown
10. Docking
11. It makes the reproductive organ of ewe accessible to the ramp.
12. They help in blood clotting to prevent excessive bleeding on fresh wounds
13. They are all warm blooded/ both breathe through the lungs
14. By recovering from a disease
15. Caterpillar or larva stage
16. They destroy people's crops
17. They are so soft and spongy which makes them expand easily to let in air/ it has many air sacs that increase the surface area for diffusion of air
18. They carry rat fleas that spread bubonic plague.
19. It is used when sharpening tools/ it is used when grinding cereals using a stone/ it is sued when lighting a match stick.
20. By churning food by the stomach walls
21. By sliding off by the help of the slippery skin/ by piercing the enemy using its dorsal fins
22. Oxygen   23. Heartwater
24. It has no impurities
25. It separates the heart into the left side and right side
26. It keeps the cetacean warm in water
27. It is time consuming/ a lot of space is wasted
28. It removes water from fresh food by osmosis
29. This is space without matter in it
30. Oxygen   31. Slugs/ oysters
32. 37°C.   33. In the cortex
34. By camouflaging or changing colours according to the colour of the environment.
35. The warm air outside the bottle gets condensed by the cold bottle
36. Echoes enable them to locate their food/ echoes enable them to find there way or to dodge obstacles.
37. It prevents movement of animals and their products from a region of an outbreak to an area of no outbreak
38. Energy
39. The friction between it and the surface causes wear of the lid.
40. The angle of incidence is equal to the angle of reflection.
41. a) i) It is used for preserving semen for artificial insemination/ it is used in electric bulbs to prevent the filament from burning up.
ii) it is used for preserving bottled drinks and tinned foods/ it is used in fire extinguishers to put out fire.
b) It supports burning.
c) It destroys people's property/ it spreads respiratory and other airborne diseases in people and animals/ wind blows dust into people's eyes.
42. a) i) Lateral line   ii) Caudal fin
b) It is used for breathing
c) It suffocates due to inability to take in dry oxygen from the atmosphere/ the gill filaments get dry and stick together

Integrated Science

43. a) Hookworms
b) They cause malnutrition/ they may cause dehydration due to excessive diarrhoea.
c) By wearing sandals whenever one is walking in dirty places/ by proper disposal of human wastes/ by deworming after every three months
44. a) Rats/ weevils/ mice/ termites
b) i) By putting rat guards in the granary stands
ii) By trapping/ by spraying with pesticides
c) Some pests are eaten as food/ some pests are used as food for domestic animals.
45. a) Dry cell
b) Electrons flow from the negative to the positive terminals in the circuit. (Follow the arrow critically and it should be only one)
c) T will produce light
d) The circuit will be complete and current will flow through it
46. a) Fractures/ dislocations/ sprains/ strains
b) Ice the injured part to cool the temperature/ compress or tie the injured part to prevent overswelling/ raise or elevate the injured part to prevent further injuries
c) They lead to lameness/ they lead to loss of memory/ they lead to loss of some body parts/ it leads to death
47. a) Floods/ earthquakes/ drought/ too much rainfall/ outbreak of diseases and pests in an area
b) By planting trees/ by building houses with stronger materials/ by wearing heavy or thick clothes during a rainy season/ by using umbrellas
48. a) Trachea
b) It is spongy and soft that enables it to expand in order to let in more air/ it is has many air sacs that increase the surface area for diffusion of air
c) By doing physical exercises regularly/ by feeding on a balanced diet/ by avoiding overcrowded, smoky and dusty places
49. a) They have a hard seed coat which can not easily rot/ it is light and less dense than water which enables them to float on water/ they have a fibrous seed coat that enables water to pass through them without affecting the coat.
b) It leads to low yields when seeds self disperse before harvesting is done/ it leads to easy spread of weeds in the garden
c) By harvesting early
50. a) Stealing/ abusing/ fighting/ lying/ arson
b) It leads to destruction of family property/ it can lead to death of family members
c) By punishing the wrong doers/ by being exemplary/ by providing guidance and counselling to his children
51. a) This is a condition when the body does not have enough water in it.
b) It leads to excessive loss of water in the body.
c) By giving plenty of oral rehydration solutions/ by giving the victim a lot of fluids/ by putting the victim on rehydration drips
53. a) Winch/ brace/ egg beater/ door knob/ steering wheel/ screw driver
b) By increasing the speed of doing work/ by reducing the effort used.
c) Screw drivers are used to drive the screw nails into some material/ Door knobs are used for opening and closing doors/ winces are used to draw water from underground/ egg beaters

English

1. a
2. so
3. thimble
4. of
5. how
6. repetitively
7. themselves
8. more famous
9. endanger
10. tribal
11. eighth
12. lay
13. intention
14. injuries
15. smoothing
16. account
17. namely
18. recipe
19. uncomfortable
20. barracks
21. rays
22. Butchers
23. nephew, newton, nice, niece
24. Vabish, vain, van, varnish
25. aunt   26. expensive
29. and   30. consider
31. My brother , as well as my cousin , is a tailor.
32. The pupils said , "We shall attend the debate in the afternoon ."
33. The carpenter won't make for you furniture unless you pay all the money.
34. The herdsman needn't have tortured the cows.
35. It is not far from school to home, is it?
36. I would rather use a saw than a drill.
37. Katula is not smart enough to attend the party.
38. If I were a fish, I would attend the party.
39. The seamstress has just sewn my trousers.
40. He grazed neither the goats nor the sheep.
51. a) The above table shows MOCK Examination results obtained in 2023 from Amailuk Primary School in Bukedea District.
(b) The results were obtained in 2023.
(c) The results shown are for Amailuk Primary School.
(d) The school is located in Bukedea.
(e) Eleven candidates registered for examinations.
(f) According to the given information, English was the best performed.
(g) I think Muleera Edith performed poorly because she didn't make thorough revision.
(h) Two candidates scored 4 aggregate in PLE.
(i) The candidates performed worst in SST.
52. a) Crispo is a baker.
(b) He stays in our neighbourhood.
(c) He is sixteen years old.
(d) He has purposefully used his mother's phone by using it to search for useful information about baking.
(e) The two young men help him to knead the dough.
(f) He makes product shapes himself.
(g) He gets many customers every day.
(h) He has planned to simplify his work by setting up a new modern oven.
(i) The writer advises his friends to use phones purposefully.
53. a) The writer directs everybody on the road.
(b) One should be able to read for one to use the writer .
(c) The user of the writer should have normal eyes.
(d) The writer has two legs.
(e) The writer should be found at the same place so that he can direct road users well.
(f) A person who is used to the writer should be able to read.
(g) (a) willing
(b) destination
(h) The writer is not happy in the last stanza because the people he directs don't bid farewell to him.
(i) The writer of the poem is a road signpost.

Social Studies

1) By planting trees/ building houses with flat roofs/ building houses with low roofs
2) sunny weather
3) budgeting helps a school to spend wisely/ identify priorities/ promotes proper accountability
4) difference in air pressure
5) by constructing winding roads/ by using donkeys
6) warm ocean currents bring rainfall/ cause rainfall
7) Perennial crops
8) a mace
9) school anthem
10) a fish
11) it is Uganda's national emblem
12) global warming causes melting of snow on snow caped mountains/ waterbodies dry up / causes drought
13) Miombo woodlands
14) The Prime Meridian
15) The Chagga
16) Trans-Atlantic Trade
17) They wanted raw materials for their home industries/ they wanted market for their finished goods/ they wanted cheap labour from Africa/ they wanted to get areas to invest their surplus capital
18) The Pygmies
19) Mountain Rwenzori
20) Patriotism
21) Robben island
22) He suggested the name African Union/ he chaired a meeting in Sirte which led to the formation of AU
23) Apartheid policy
24) Liberia
25) it is bad to be forgetful/ we should be kind to one another
26) EITHER: To preach the word of God/to spread Christianity
OR: To run away from the pagan Meccans/ to spread Islam
27) EITHER: To fulfil the culture of the Jews
OR: to promote purity/ it is a sign of cleanliness
28) EITHER: God turned water in River Nile into blood.
OR: AS ABOVE
29) EITHER: Yusuf Lugalama/ Nuwa Sserwanga/ Makko Kakumba
OR: Summaya/ Sumayyah
30) EITHER: It is used for identification/ it is a symbol of salvation/ it strengthens Christians faith in God
OR: it is used for identification/ it has the word of Allah/ it guides Moslems/it has divine powers to heal
SECTION B
31a) Dominion states
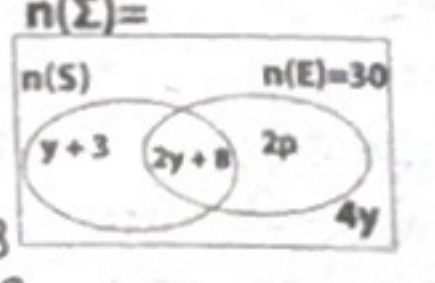b) Canada/ Australia/ New Zealand
32a) Buganda kingdom
b) Buganda had strong leaders/ Buganda had guns/ the Baganda were united/Buganda had enough food for its people/ Buganda was located strategically near Lake Victoria which gave it natural security
33a) Vasco Da Gama
b) They didn't want to pay high taxes at the Ottoman empire
c) They got silk and spices/ they stopped paying high taxes
d) Vasco Da Gama was a Christian/ the Arabs didn't want him to interfere in their coastal trade
34a) Karamoja sub-region
b) draw and mark
c) Ostriches
d) Port Butiaba
35a) This is the growing of crops and rearing of animals on the same piece of land for home use and the surplus is sold.
b) it is cheap/ it requires a small piece of land to start/ it requires the use of simple farming tools
c) Subsistence farming leads to low food production/ a farmer earns less income/ it does not promote the development/ growth of Agro based industries
36a) United Nations Children's Fund
b) UNICEF funds immunisation programmes for children/ UNICEF provides scholastic materials to some children/ UNICEF provides safe drinking water to some children in schools/ UNICEF provides furniture to children in some schools
c) United Nations/UN
37a) The Bachwezi/ Chwezi
b) they introduced salt mining/ long horned cattle/ bark cloth making/ coffee growing/
c) The coming of the Luo
38a) IGAD
b) they provide a wide market for goods/ they reduce border taxes on goods/ they allow free movement of people and goods/ they promote unity/ cooperation and security among member states
c) shortage of funds/ production of similar goods/ corruption/ lack of a common currency/ different political ideas
39) EITHER: a) God   b) Moses
c) to go and rescue the Israelites from slavery/ to save God's people from suffering/ to speak to the Pharoah about God's anger/ take God's message to the Pharoah
OR: a) Musa   b) Mountain Sinai
c) he was obedient/ faithful/ brave
40a) EITHER: Tithe is ten percent of one's monthly salary given to God
b) to get blessings/ to earn more from God/ to thank God

Mathematics

1.
$$\begin{array}{r} 2\ 0 \\ 3\ 1 \\ +\ \ 1 \\ \hline 5\ 1 \end{array}$$

2. $1m^2 = 10,000cm^2$
$4m^2 = 4 \times 10,000cm^2$
$= 40,000cm^2$

3. 1 , 4 , 9 , 16 , 25 , 36
+3 +5 +7 +9 +11
25 + 36 = 61

4. $n = 3$
$nCp = 2^n - 1$
$= 2^3 - 1$
$= (2 \times 2 \times 2) - 1$
$= 8 - 1 = 7$

5. $100\% - 25\% = 75\%$
75% repr 60km
1% will be repr = $\frac{60km}{75\%}$
100% will be represented by $\frac{60km \times 100\%}{75\%}$
$= \frac{60km \times 4}{3} = 20km \times 4 = 80km$

6.
T	O	Tth	Hdth
3	9	.	6
3	9	.	6
3	9	.	6

39.63 ≅ 39.6

7. 1 dozen = 12 books
1 gross = 144 books
12 books cost sh. 72,000
1 book will cost sh. $\frac{72,000}{12}$
144 books will cost sh. $\frac{72,000 \times 144}{12}$
= sh. 864,000

8. $3 - 4 = \ldots$ (finite 7)
$(7 + 3) - 4 = \ldots$ (finite 7)
$10 - 4 = 6$ (finite 7)
9. $25\% = \frac{25}{100} = \frac{1}{4}$
TR = 1 + 4 = 5
5 parts repr 1800
1 part will be repr by = $\frac{180^0}{5} = 36^0$

10. L = $36^0 \times 2\pi r$ 360^0
$= \frac{36^0}{360^0} \times 2 \times 22 \times 70cm$
$= \frac{1}{10} \times 2 \times 22 \times 10cm$
$= 2 \times 22 \times 1cm = 44cm$

11. 100% - 10% = 90%
90% vs sh. 2,000
$= \frac{90}{100} \times sh. 2,000$
= sh. 20 × 90 = sh.1,800

12. $L^3 = V$
$L^3 = 216cm^3$
$\sqrt[3]{L^3} = \sqrt[3]{216cm^3}$
$\sqrt[3]{L \times L \times L} = \sqrt[3]{6cm \times 6cm \times 6cm}$
L = 6cm

13. $\frac{4x^2y}{4xy} - \frac{8xy^2}{4xy}$
$= x - 2y$
$4xy(x - 2y)$

14. Right angled triangular Prism
15. F18 = {1 , 2 , 3 , 6 , 9 ,18}
F24 = {1 , 2 , 3 , 4 , 6 , 8 , 12 , 24}
CF = 1 , 2 , 3 , 6
GCF = 6

16. $\frac{3}{4} \div \frac{6}{16} = \frac{3}{4} \times \frac{16}{6} = \frac{1 \times 4}{1 \times 2} = \frac{1 \times 2}{1 \times 1} = 2$

17. $360^0 - 70^0 = 290^0$
N290°W
= 290° Northwest

18.
$\frac{1}{8} \times 8 = 2$ parts

19. CMLXIV = CM / LX / IV
900 + 60 + 4 = 964

20. 40 - 30 = 10
First 30 words = sh. 2,000
Other 10 words = (10 × 200)sh
sh. 2000 + sh. 2000 = sh. 4,000

21. a) $y^2\ y^0\ y^0$
1 0 5 = 28ten
1 x y² + 0 x y¹ + 3 x y⁰ = 28
$y^2 + 0 + 3 \times 1 = 28$
$y^2 + 3 = 28$
$y^2 + 3 - 3 = 28 - 3$
$\sqrt{y \times y} = \sqrt{5 \times 5}$ y = 5
29 ÷ 4 = 8 rem 1
8 ÷ 4 = 2 rem 0// 29ten = 201four

b) Quinary is base four

22. a) Let the No of eggs sold be m
S : P = B. P + P
sh. 750 x m = sh. 30,000 + sh. 1500
sh. 750 x m = sh. 31,500
$\frac{sh. 750m}{sh. 750} = \frac{sh. 31,500}{sh. 750}$
m = 42
He sold 42 eggs
60 eggs - 42 eggs = 18 eggs
18 eggs got broken
b) 60 x sh. 750 = sh. 45,000
sh. 45,000 - sh.30,000 = sh. 15,000
$\frac{sh. 15,000}{sh. 30,000} \times 100\%$
= 50%

23. 3012 = 3 + 0 + 1 + 2 = 6
6 ÷ 3 = 2 No remainder
3012 is divisible by 3
b) {12 , 14 , 15 , 16 , 18}
c) 0.00492 × 10 = 0.0492
0.0492 × 10 = 0.492
0.492 × 10 = 4. 92
Therefore 0.00492 = 4.92 x 10⁻³

24. a) January = 31 days
February = 29 days
31 + 29 = 60
60 is sixty
b)
Hr	Min
4	15 + 60
3	45 - 45 = 30
1	30
ii)
Week	Days
6	4
3	5
1	0
49 ÷ 7 = 1 rem 4

25.
n(Σ)
n(S)   n(E)=30
y + 3   2y + 8   2p
     4y
4y = 2y + 8
4y = 2y + 8
4y - 2y = 2y - 2y + 8
2y = 8
$\frac{2y}{2} = \frac{8}{2}$ y = 4
2 x y + 8 + 2p = 30
(2 x 4) + 8 + 2p = 30
8 + 8 + 2p = 30
16 + 2p = 30
16 - 16 + 2p = 30 - 16
2p = 14
$\frac{2p}{2} = \frac{14}{2}$ p = 7
c) y + 3 + 2 x 7
4 + 3 + 2 x 7
7 + 14 = 21

26. 4 x -2 = -8
-2 -2 -2 -2
-8 -7 -6 -5 -4 -3 -2 -1 0
b) 3 - 2y > 9 - 3
3 - 3 - 2y > 9 - 3
-2y > 6
$\frac{-2}{-2}y > \frac{6}{-2}$ y = -3
y: {-4, -5, -6, ...}

27. Volume of outer cylinder
1m = 100cm
V = 22 x 14cm x 14cm x 100cm
= 22 x 7cm x 1cm x 100cm
= 15400cm³
Volume of inner cylinder
V = 22 x 7cm x 7cm x 100cm
= 22 x 7cm x 1cm
= 11 x 1cm x 7cm x 50cm
= 3850cm
15400cm³ - 3850cm³ = 11550cm³
b) C = 2πr
88cm = 2 x 22 x r
7 x 88cm = 2 x 22r x 7
7 x 88cm = 22r x 2
7 x 2cm = r
14cm = r // r = 14cm

28. Let Milly's cows be k
Babinga	Milly	Total
k + 15	k	
k + 15 + k		55
k + 15 + k = 55
2k + 15 = 55
2k + 15 - 15 = 55 - 15
2k = 40
$\frac{2k}{2} = \frac{40}{2}$ k = 20
Milly has 20 cows
Babinga has 20 + 15 = 35 cows

29. Food = 72°
Rent = 144°
savings = 144°