ANSWERS TO PASS PLE ISSUE 42 (SEPTEMBER 25TH 2023)

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1. Splash erosion
2. Keep water which acts as a breeding place for mosquitoes that spread diseases to people
3. Obesity
4. Breastfeeding delays the next ovulation.
5. Breaks the life cycle of ticks.
6. Windy, cloudy, sunny
7. Bathing, washing clothes.
8. Has two seed leaves/cotyledons.
9. Flight feathers.
10. To remove germs from the hands/ to control faecal diseases.
11. Cholera
12. Tarmacking them
13. The food is churned/ digested.
14. Have compact molecules.
15. Celsius/Fahrenheit.
16. Progesterone/oestrogen.
17. When one gets a strain in the leg, broken leg
18. Respiration
19. Recording
20. To prevent them from getting kwashiorkor
21. Burning rubbish, proper disposal of faeces/ keeping latrines clean.
22. Harvesting mature seeds, not keeping seeds in the store for so long.
23. They release carbon dioxide which plants use as a raw material for photosynthesis.
24. Rat guards
25. To prevent dampness of the granary by moisture from the ground.
26. The snail is denser than water.
27. 9 months.
28. A new temporary substance is made/ it is reversible.
29. Magnetism
30. Soil will contaminate the wound.
31. Lack of roughage in the diet
32. To prevent effect of stigma
33. By radiation
34. It improves on soil fertility.
35. Boiling will make the glass break.
36. Cross pollination.
37. Have a nucleus/ have no specific shape.
38. Slashing tall grass in the compound, burning rubbish
39. Makes them weigh less
40. It occupies space.
41. a) This is the process of removing solids that float and settle in the water.
   b) Sedimentation does not kill germs.
   c) Decantation, filtration.
42. a) i) to overcome friction in water ii) Keep the cetacean warm.
   b) Whale, sea ,otter.
43. a) Water
   b) i) Carbon dioxide
   ii) oxygen
   c) Trap carbon dioxide in air and release oxygen
44. a) Poverty, boredom, curiosity, enticing adverts.
   b) lead to poor functioning of some body organs, cause some respiratory diseases.
45. a) The retina
   b) Are diminished, real, inverted.
   c) Both transport nerve messages to the brain for interpretation.
46. a) This is reflected sound.
   b) Whales, bats
   c) Installing thick curtains on the walls of studios, covering the floor with carpets, making the walls porous
47. a) i) These are muscles that work consciously on one's will.
   ii) These are muscles which work without our control.
   b) Supports the body
   c) Calcium, phosphorus
48. a) Subsoil layer, parent rock.
   b) lack enough humus
   c) Continuous cropping, bush burning

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49. a) Drying by suspension/salting/ freezing.
   b) opens the digestive system of a calf, stimulates faster growth, boost the immunity of a calf.
   c) East coast fever, red water.
50. a) Myopia/ shortsightedness.
   b) The eye being too short/ too big.
   c) This is how light is regulated in the eye.
   d) Washing the eyes, eating a

Integrated Science

balanced diet.
51. a) Wind, humidity, temperature, size of the leaf.
   b) Sweating.
   b) Both are cooling processes.
52. a) Churns food.
   b) Work under a certain PH, are destroyed on heating.
   c) Chewing increases the surface area for the enzymes to work

on food/
53. a) Amoeba
   b) Abdominal pain, loss of weight, bloating, bloody diarrhea, mucus or pus in faeces.
   c) Proper disposal of faeces, boil water for drinking.
54. a) This is to get rid of waste products from the body.
   b) Urea, uric acid.

c) In the medulla
d) Respiration
55. a) ECOSAN separates urine from faeces while VIP latrine mixes urine with faeces.
   b) Pouring ash in it, scrubbing it regularly.
   c) Presence of rubbish, presence of houseflies.

English

1. rung
2. wood
3. open
4. eggs
5. off
6. cloudy
7. orphanages
8. defence
9. religious
10. helpful
11. drainage
12. nursed
13. likely
14. relatives
15. lice
16. buffalo, dance, donkey, elephant
17. shake, shave, shock, shovel
18. Dept.
19. opposition
20. Their feet hurt due to tight shoes.
21. Akiiso liked brothers-in-law very much.
22. What are you pointing to?
23. John and I went to the market.
24. bun: (idea of a small round sweet cake.)
25. burn: (idea of producing flames and heat)
26. The convict was imprisoned for defiling a school girl.
27. Many apologised to the teacher.
28. Mafabi's dead body has been put in a coffin/casket.
29. Alfred is always at war with

his neigbhours.
30. Fatuma has trained her pupils how to catch the ball during play time.
31. That is the unfortunate man whose house was struck by lightning.
32. Our teacher usually buys rice from Musoke's shop.
33. Peter will not marry unless his father gives him cows for dowry.
34. You ought to wash your face every morning before taking breakfast.
35. No sooner had he entered the house than it began to rain.
36. "May I have a lift?" he asked.
37. Ali was repairing the T.V. while Aaron was washing clothes.
38. Alice can weave mats besides knitting sweaters.
39. Both Oketcho and Anyango are Kenyans.
40. Ogaba went to watch a cinema, didn't he?
41. a) Dora Ango was in Namajulu Primary School.
   b) Dora Ango was the most

loved at their home.
(c) She was the most hated at school because of her bad behaviour.
(d) Being a daughter of the sub-county chief of Namajulu made her a very arrogant girl.
(e) Apart from fighting with other pupils, Angora Ango also spat on other pupils.
(f) The children missed many lessons when the teachers left.
(g) The parents suggested in the meeting that the bad mannered girl should be expelled from school.
(h) overpowered___defeated
42. (1). These programmes appear on Blue Channel.
   (2). The programme Gospel Truth is conducted by Pastor Katuutu Joel.
   (3). News at 6:00a.m. is broadcast in English.
   (4). News in Luganda is read from 12:00 to 01:00 in the afternoon.
   (5). Adverts and announcements are presented in Ateso.
   (6). Dada Amos will take two hours presenting pop music.

(7). Mrs. Katuka Jovia reads news in Luganda from 12:00 to 1:00 p.m. on this channel.
(8). Four programmes are conducted in English.
(9). If someone wants to watch a movie, one should tune in from 01:00 to 06:00 p.m.
(10). Ateso, Luganda
43. (a) The poem is about peace.
   (b) The poet has described peace as slippery.
   (d) Power is making people struggle.
   c) Our land has completely been ruined.
   e) A gun was used to protect people.
   f) Spears are hunting human-kind.
   g) Insecurity has resulted from mishandling the gun and the spear.
   h) We should turn to religious leaders for help.
   i) Religious leaders are of help to us in the way that they teach us heavenly beauty.
   j) We should be taught about heavenly beauty in order to enjoy living with each other.

Social Studies

1. East/ Eastern direction
2. Civic leaders/Political leaders/ Religious leaders
3. It helps farmers to plan for their farm activities.
4. The Ngoni.
5. He exiled Kabaka Edward Frederick Muteesa II in Britain
6.
7. It funded research on control of corona virus/It approved vaccines to fight against COVID-19.
8. New York.   9. Folding
10. ECOWAS
11. To control traffic flow at the crossroads.
12. Presence of heavy rainfall / Presence of high temperatures / Presence of well drained sandy fertile soils
13. It provides cheap labour force It provides ready market for the produced goods.
16. The British were few in number. It was cheap. The British wanted to solve the problem of language difficulty/ they wanted to control rebellions.
15. Red rings on the Union Emblem symbalise the bloodshed during the liberation of Africa.
18. It guides leaders / It helps to state the powers of different organs of government. / It helps in protecting human rights
13. Cattle keeping
14. It creates a wider market for Uganda's goods. It provides employment opportunities to Ugandans.
19. Discovery of Iron smelting
23. To show national mourning.

20. Circumcision/Imbalu
21. Inga dam/Nzilo dam
22. To avoid revenge/To always forgive those who wrong you.
24. Rainfall/ temperature
25. Grass reduces the speed of running water in the playground.
26. Either He fed the hungry He healed the sick/lame/blind Or: He fed the hungry
27. Either: He was created in God's image. He was given a developed brain unlike other creatures. Or: He was created in Allah's image. He was given a developed brain unlike other creatures.
28. Either: Lent period Or: Ramadhan
29. Either: Disobedience/Poverty/Selfishness/ Or: Disobedience/Poverty/ Selfishness/
30. Either: A prayer is a way of communicating to God Or: These are night prayers Muslims perform only during the month of Ramadhan.
31. a) Handles her imports and exports.
   b) It is dry/It receives little rainfall that cannot support crop growing.
32. a) Protestant Missionaries Anglican missionaries.
   b) To spread Christianity To stop slave trade To promote western education and civilisation

c) They built schools/hospitals/ They introduced new crops They introduced new methods of farming.
33. a) Population density is the total number of people living in an area per square kilometre.
   b) Population Density
   = Total population / Total area (Km²)
   = 1,200,000 people / 600km²
   Population density = 2000 people per square kilometre. The population density of town N is 2000people/km²
   c) Rwanda
   d) People have enough land/It promotes conservation of the natural environment in an area.
34. a) Values are beliefs taken to be right or important in a given society.
   b) Personal values / Family values / Community values
   c) Patience/Cleanliness/Honesty/Smartness
   d) They promote morals among people / They promote respect in the community. They promote hard work.
35. a) It provides them with counseling services.
   -It provides them with Anti Retroviral drugs (ARVs)
   -It provides relief aid in terms of food to the patients.
   b) It has led to death of people
   -It has caused misery to the infected persons

36. a) To end high taxation
   -To end forced labour
   -To grow their own cash crops
   -To regain their land
   b) They staged rebellions
   -They staged strikes
   -They formed political parties
   -They boycotted European goods
   -They formed trade unions.
   c) Kenya got independence through armed struggle while Uganda got independence through peaceful means.
37. Either: a) Genesis
   b) i) Genesis   ii) Exodus
   iii) Acts
   Or: a) Surah al Fatiha
   b) i) Tauret   ii) Injir   iii) Zabur
38. Either: a) He/she should be humble/Exemplary/Trustworthy/Honest
   b) To develop the community
   -To take care of the community
   -To promote unity
   Or: a) He/she should be humble/ Exemplary/Trustworthy/Honest
   b) To develop the community
   -To take care of the community
   -To promote unity
39. Either: a) A neighbour is a person who helps one in need
   b) He fed the hungry/ healed the sick/ made the blind see/ made the lame walk/ made the dumb talk
   Or: a) A friend is a person with whom you relate freely
   b) He fed the hungry/ He healed

Mathematics

1. 2 1
   × 4
   ───
   8 4

2. Let the complement of (x + 10) be x
$x + x + 10° = 90°$
$2x + 10° = 90°$
$2x + 10 - 10 = 90° - 10°$
$\frac{2x}{2} = \frac{80°}{2}$ $x = 40°$

3. 2 2 four   2 + 3 = 5
   + 1 3 four   5 ÷ 4 = 1 rem 1
   ─────────
   1 0 1 four   1 + 1 + 2 = 4
                4 ÷ 4 = 1 rem 0

4. $k (3m - k) = -3 (3 × 5 + 3$
   $= 3 (15 + 3)$
   $= -3 × 18 = -54$

5. 100% - 30% = 70%
   If 70% repr sh. 3500
   Then 100% will repr $\frac{100}{70\%} × $ sh. $\frac{3500}{70\%}$
   $= 10 ×$ sh. 500 = sh. 5000

6. CLXV = C + LX + V
   $= 100 + 60 + 5 = 165$

7. in 1 minute 110m are covered
   33km = 33,000m
   110m are covered in $^1/_{1000}$ minutes
   33,000m will becoverd in
   $\frac{1}{1000} × 33,000m$
   $= 1 × 300$ minutes
   The journey was covered in 300 min OR 6 hours

8. -9 -3 7 8 9
   The median is 7

10. If $^1/_4$ costs sh. 2,400
    Then $^4/_1$ will cost $\frac{4}{1} ×$ sh. 2400
    1 packet costs sh. 9,600
    8 packets costs sh. 9,600 × 8
    = sh. 76,800
    1 doz = 12 sweets
    $\frac{1 × 13}{4}$ sweets
    = 3 sweets
    3 sweets cost sh. 2,400
    1 sweet costs sh. 2400 / 3 = sh. 800
    8 sweets will cost sh. 800 × 8
    = sh.6,400

11. $C = ^1/_2 nd + d$
    $110m = \frac{1}{2} × \frac{22}{7} d + d$
    $110m = \frac{11d + d}{7}$
    $7 × 110m = 7 × \frac{11d}{7} + 7 × d$
    $770m = (11d + 7d)$
    $\frac{770m}{18} = \frac{18d}{18}$ d = 42.78m

12. 15 - 15 - h = 13 - 15
    -h = -2
    1 × -h = 2 × -1
    h = 2

13. $3^1/_2 \% - 7^1/_2 \%$
    $7^1/_2 \% = \frac{7}{1} ÷ \frac{100}{2} = \frac{7}{1} × \frac{1}{100} = \frac{7}{200}$

14. $\frac{3}{4} × 60 min = 45$ minutes
    HR   Min   (60 + 20 = 80min
    7   2 0pm 80 - 45 = 35min
    -3   4 5
    ─────────
    3   3 5pm
    The party started at 3:35pm

15. 863 . 4 ÷ 10 = 86 . 34
    86 . 34 ÷ 20 = 8 . 634
    Therefore 863.4 = 8.634 × 10²

16. $2_1 × 3_2 × 3_1 × 5_1 × h = 180$
    $2 × 3 × 3 × 5 × h = 180$
    $\frac{1 90h}{90} = \frac{180 2}{90}$ h = 2

17. sh. 78,000 = sh. 600,000 × 2 × $\frac{R}{100}$
    $100 × sh.78,000 = sh.600,000 × 2 × R$
    $\frac{R}{R} × 100$
    $= sh.7800000 = sh.600,000 × 2R$
    sh. 600,000   sh. 600,000
    $\frac{13}{2} = \frac{2R}{2}$ R = $6^1/_2\%$ // 6.6%

18. 9 14 18 21 23
    2k - 5h

19. 7k - 5k - h - 4h
    2k - 5h

20. Total number of people = 27 + 13
    = 40
    Prob $\frac{n(DC)}{n(T.C)} = \frac{27}{40}$

21. a) Let the interior angle be m

	Ext<	Int<	Sum
	m - 36°	m	180°

$m + m - 36° = 180°$
$2m - 36° - 36° = 180° - 36°$
$\frac{2m}{2} = \frac{216°}{2}$ m = 108°
$Ext< = m - 36°$
$= 108° - 36° = 72°$
No of sides $\frac{360°}{72°} = 5$ sides
Int<Sum = No of sides × Int<
$= 5 × 108° = 540°$

22. V = 88cm × 5cm × 56cm
    = 246,400cm³
    1000cm³ = 1 litre
    $246400cm³ = \frac{246400cm³}{1000cm³} = \frac{2464}{10}$
    = 246.4 litres
    b) $22 × r × r × 100cm = 246400cm³$
    $= \frac{22}{7} × 7 × r × r × 100cm = 245400cm³$
    $= \frac{2200r cm}{2200} = \frac{245400cm³}{2200cm}$
    $r² = 2450cm² × cm × \frac{7}{22 cm}$
    $r² = 112 cm² × 7$
    $r² = 784 cm²$
    $\sqrt{r × r} = \sqrt{28 cm × 28 cm}$
    r = 28 cm
    d = 2 × r
    = 2 × 28cm = 56 cm

23. Let the cost of the pair of shoes be k
    shoes .... k
    dress .... 1/3 k
    bag .... $^1/_3$ k + sh. 50,000
    $2 × k + 4 × ^1/_3 k + ^1/_3 k + 50,000$
    = 380000
    $2k + \frac{4k}{3} + \frac{1}{3}k =$ sh. 380000
                      - sh. 50000
                      ────────────
                      sh. 330,000
    $(2k × 3) + 1 × 4 × x × 1 k = 330000$ / 3
    $6k + 11k + k =$ sh. 330,000
    $\frac{11k}{11} = $ sh. $\frac{330,000}{11}$ k = sh. 30,000
    shoes costs 3 × 30000 = sh. 90000

24. sh. 1,220,000 = p + 1
    sh. 1,220,000 = p + p TR
    sh. 1,220,000 = p + p × $2^2/_3 × 13^1/_3 \%$
    sh. 1,220,000 = p + p × $\frac{8yr}{3} × \frac{40\%}{3}$
    sh. 1,220,000 = p + $\frac{8p}{3} × \frac{40}{3} × \frac{1}{100}$
    sh. 1,220,000 = p + 320p/900
    sh. 1,220,000 = 900 × p + $\frac{320p}{900}$ × 900
    × 900   900
    900 × sh. 1,220,000 = 900p + 320p
    900 ×sh. $\frac{1,220,000}{1220} = \frac{1220p}{1220}$
    900 × sh. 1000 = p
    900,000 = p // p = 900,000

25. a + 131° = 180°
    a + 131° - 131° = 180° - 131°
    a = 49°
    a + b = 180°
    b + a = 180°
    b + 49°= 180°
    b + 49° - 49° = 180° - 49°
    b = 131°
    g + 131° + 110° = 360°
    g + 241° - 241° = 360° - 241°
    g = 119°
    c + 110° = 180°
    c + 110° - 110° = 180° - 110°
    c = 70°
    b) c = d = 70°
    e + 70° + 70° = 180°
    e + 140° = 180°
    e + 140° - 140° = 180° - 140°
    e = 40°

26. $\frac{y}{100} + \frac{30}{3} = \frac{y}{100} × \frac{3600}{30}$
    $\frac{-y}{100} × \frac{36}{3} = \frac{-y}{100} × 12 = \frac{124}{100 × 1} / \frac{100}{100}$
    = 34km
    25hours = 34km/25hr
    b) 3y km = $\frac{3 × 400 km}{25 hr}$
    25 hr
    = $\frac{3 × 16km}{1 hr}$ = 48km/hr

27. a)

B	No	Rem
2	26	0
2	13	1
2	6	0
2	3	1
1	1	1

26 = 11010 two