

MARKING SCHEME - SIGNAL 003

ABOUT US

STANDARD 8 2020

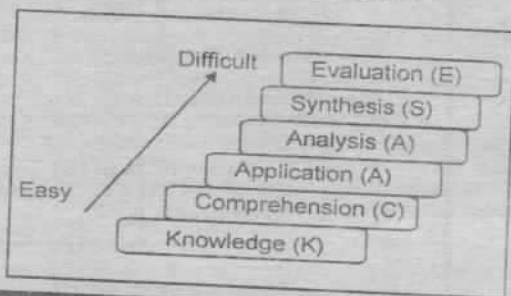
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Protocol examiners.

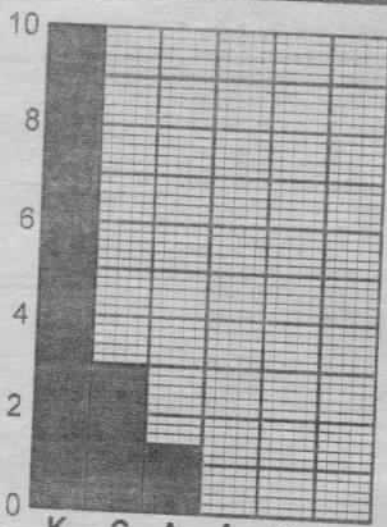
Protocol examiners is a panel of trained teachers teaching in high ranking schools. Apart from teaching they also specialise in production of exams and 8-4-4 revision materials.

Standard exam

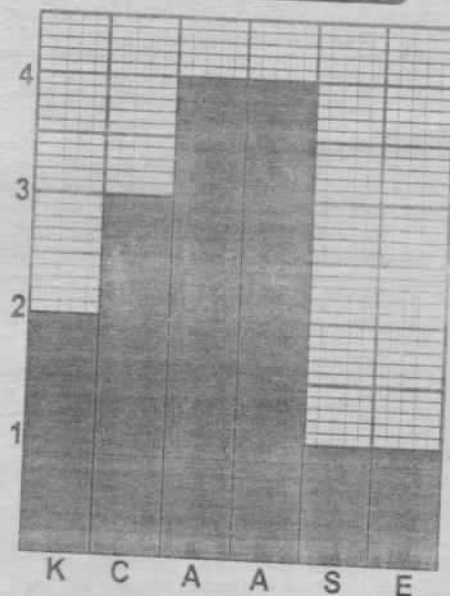
A standard exam is the one where the setter has tested from a variety of topics. It should also test rationally from all the six categories of questioning in the **blooms taxonomy**. The diagrams below are a simplified guide on how we set our exams.



Setting for Baby class to Std. 3



Setting for Std. 7&8



Welcome to our comprehensive marking scheme

This marking scheme has proved popular with teachers and learners. It is unique and **the only one** of its kind in the market. It is elaborate, carefully presented and simplified for easy-study.

We present the **supersifted output** of the best brains of highly qualified and talented teachers in the top ranking schools in the country.

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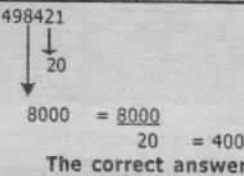
MATHEMATICS WORKING 003

1. 6,090,439
 6000000 - Six million
 90000 - Ninety thousand
 439 - Four hundred and thirty nine.
 = Six million ninety thousand four hundred and thirty nine.
The correct answer is B.

2. $\frac{1\frac{1}{2} - \frac{1}{4} \times 1\frac{1}{3}}{1\frac{1}{3} + \frac{1}{6} + \frac{1}{2}}$ **BODMAS**

$$\begin{aligned} \frac{1}{2} \times 1\frac{1}{3} &= \frac{1}{2} \times \frac{4}{3} \times \frac{1}{3} \\ 1\frac{1}{2} - \frac{1}{4} &= 1\frac{1}{4} \\ \frac{1}{6} + \frac{1}{2} &= \frac{1}{6} + \frac{3}{6} = \frac{4}{6} = \frac{2}{3} \\ 1\frac{1}{4} + \frac{2}{3} &= \frac{3}{4} + \frac{2}{3} = \frac{9}{12} + \frac{8}{12} = \frac{17}{12} \\ 1\frac{1}{4} - \frac{1}{4} &= \frac{3}{4} \\ \frac{3}{4} \times \frac{12}{17} &= \frac{9}{17} \end{aligned}$$

The correct answer is D.

3. 498421

The correct answer is C.

4. $2.56 \times 4.6 = 11.776$ — Round off to 1

11.77
+ 1

11.78

The correct answer is B.

5. $\frac{2}{3}, \frac{7}{8}, \frac{5}{6}, \frac{2}{3}, \frac{1}{2}$
 Convert fractions to decimals
 = 0.60, 0.78, 0.63, 0.67, 0.50
 In descending order
 = $\frac{7}{8}, \frac{2}{3}, \frac{5}{6}, \frac{2}{3}, \frac{1}{2}$

The correct answer is B.

6. Total = $600 \times 2 = 1200\text{dl} \times 2 = 2400\text{dl}$ per week
 1 month = 4 weeks 10dl = 1L
 $= \frac{2400\text{dl}}{10} \times 4 = 960\text{L}$

1000ml = 1L
 $960\text{L} \times 1000 = 960000\text{ml}^3$

The correct answer is D.

7. $12\frac{1}{4}\% = \frac{49}{400} = 0.1225$

The correct answer is C.

8. $\frac{2(4y+3)+3(6y+4)}{4(2y+1)+5(2y+4)}$

$$\frac{8y+6+18y+12}{8y+4+10y+20}$$

$$\frac{8y+18y+12+6}{8y+10y+20+4}$$

$$\frac{26y+18}{18y+24}$$

$$= \frac{13y+3}{9y+4}$$

The correct answer is B.

9. $1\frac{1}{4}, 1\frac{2}{4}, 2\frac{1}{4}$
 Convert into improper fractions
 = $\frac{5}{4}, \frac{7}{4}, \frac{9}{4}, \frac{11}{4} = 2\frac{3}{4}$

The correct answer is B.

10. $3(y+3)+y=23$

$$3y+9+y=23$$

$$3y+y+9=23$$

$$4y+9-9=23-9$$

$$4y=14$$

$$\frac{4y}{4} = \frac{14}{4}$$

$$= 3\frac{1}{2}$$

The correct answer is C.

11. Total marks = $16 + 10 + 13 + 14 + 19 = 72$
 Maths = $\frac{13}{72} \times 360 = 65^\circ$

The correct answer is D.

12. Dist = $4.5\text{km} \times 100000 = 450000\text{cm}$
 D. Length = 3cm
 Scale = $\frac{\text{Dist}}{\text{D.L}} = \frac{450000}{3} = 1:150000$

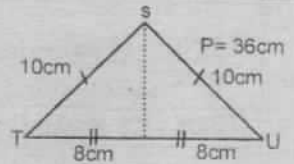
The correct answer is C.

13. $\frac{3}{5}(\frac{2}{3} + \frac{1}{4}) \div \frac{2}{5}$ **BODMAS**
 $\frac{3}{5} + \frac{1}{4} = \frac{12+5}{20} = \frac{17}{20}$

$$\frac{3}{5} \times \frac{17}{20} = \frac{51}{100} \div \frac{2}{5} = \frac{51}{100} \times \frac{5}{2} = 1\frac{19}{40}$$

The correct answer is C.

14.



Line TU = $36 - 20 = 16\text{cm}$

Line SW = $10^2 - 8^2 = 6\text{cm}$

$A = \frac{1}{2} \times b \times h$

$= \frac{1}{2} \times 16 \times 6 = 48\text{cm}^2$

The correct answer is B.

15. 18 men = 10 days
 1 man = (18×10) days
 = 12 men = $\frac{18 \times 10}{12} = 15$ days

More days = $15 - 10 = 5$ days

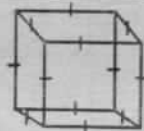
The correct answer is A.

16. 1 trip = $52 \times 2 = 104$ passengers
 3 trips = $104 \times 3 = 312$ passengers
 Mon - sat = 6 days = $312 \times 6 = 1872$ passengers
The correct answer is D.

17. $h = \sqrt{25^2 - 4^2} = 24\text{cm}$
 $V = B.A \times h = \frac{1}{2} \times 24 \times 7 \times 20 = 1680\text{cm}^3$

The correct answer is B.

18.



F = 5
 E = 12
 V = 8

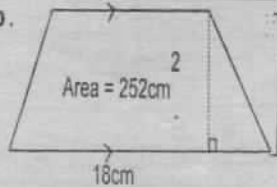
$5 \times 12 \times 8 = 480$

The correct answer is C.

19. $P = (\frac{1}{2} \times \frac{22}{7} \times 140 \times 2) + 250 + 250$
 $= 440 + 500 = 940\text{m}$
 $D = 940 \times 3 = 2820\text{m}$
 $\frac{2820}{1000} = 2.82\text{km}$

The correct answer is B.

20.



$252 = \frac{1}{2}(18+b) \times 12$

$252 = (9 + \frac{1}{2}b) \times 12$

$252 = 108 + 6b$

$252 - 108 = 6b$

$6b = 144$

$b = 24$

The correct answer is B.

21. D.T = 10.45am

A.T = 12:35pm

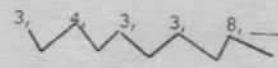
T.T = A.T - D.T

1235 hrs

$- 1045\text{h} = 1\text{h } 50\text{min}$

150

The correct answer is A.

22. 
 $(3 + 3 + 8) - (4 + 4)$
 $14 - 8 = 6$

The correct answer is B.

23. $\frac{3x(x^2 - y)}{2y + x}$ ($w = 3, x = w = 3, y = \frac{1}{2}x = \frac{1}{2}$)

$$\frac{9(9 - 1/2)}{(1/2 \times 2) + 3} = \frac{9 \times 7/2}{1 + 3} = \frac{63/2}{4} = 15.75$$

$$9 \times 1/2 = 4.5, 4.5 \times 6 = 27, 27 \times 1/6 = 4.5$$

The correct answer is A.

24. A. $1.5^2 + 2^2 = \sqrt{6.25} = 2.5$
 B. $3^2 + 7.2^2 = \sqrt{60.84} = 7.8$
 C. $2.1^2 + 7.2^2 = \sqrt{56.25} = 7.5$
 D. $1.4^2 + 4.8^2 = \sqrt{25} = 5$

The correct answer is C.

25. $v = \pi r^2 h$
 $\frac{22}{7} \times 14 \times 14 \times 20 = 12320m^3$
 $1000L = 1m^3$
 $c = 2320000L$

The correct answer is D.

26. $\sqrt{\frac{9+16}{100-36}} = \sqrt{\frac{25}{64}} = \frac{5}{8}$

The correct answer is B.

27. Total = $5.2 \times 8 = 41.6$
 Total(7) = $2 + 4 + 5 + 5 + 6 + 2 + 11 = 35$
 8th no. = $41.6 - 35 = 6.6$
 Median = $2, 2, 4, \underline{5.5}, 6, 6.6, 11 = \frac{5+6}{2} = 5.5$

The correct answer is C.

28. Nov = 2003 = 20days
 Dec 2003 = 31days
 Jan 2004 = 31days
 Feb 2004 = 29days
 March 2004 = 25days
 Total = 136days

The correct answer is B.

29. Wamuyu - Athi river - 45.00
 Athi river - Nrb + 35.00
 80.00
 Wamuyu - Nrb = 75.00
 Difference = $80 - 75 = 5.00$

The correct answer is B.

30. $\frac{0.54 \times 0.24 \times 10000}{0.18 \times 0.16 \times 10000}$
 $\frac{54 \times 24}{18 \times 16} = \frac{9}{2} = 4.5$

The correct answer is A.

31. Angle v = n = corresponding
 Angle s = p = corresponding
 Angle p = u = alternating
 Angle u and q = co-interior
 The correct answer is D.

32. New = $100\% + 115\% = 215\%$
 $\frac{215}{100} \times 450 = \text{sh. } 967.50$

The correct answer is C.

33. $2x \left(\frac{2x+3}{2} \right) < 6x2$
 $2x + 3 < 12$
 $2x < 12 - 3$
 $2x < 9, x < 4.5$
 The correct answer is A.

34. From Sunday 12noon to Tuesday 12noon = 2days \times 24hrs = 48hrs
 From Tue 12noon to 12midnight = 12hrs
 Total = $48 + 12 = 60$ hrs
 $1h = 60 \text{ min}$
 $60 \text{ hrs} \times \frac{5}{60} = 5 \text{ min}$

12.00

+ 05

12.05pm

The correct answer is A.

35. Dep = 11.15pm = 2315hrs
 T.T = 15hrs 40min
 A.T = 2315
 $+1540$
 3855 hrs
 -2400
 $1455 \text{ hrs} - \text{Thursday}$

The correct answer is A.

36. P = 50000
 R = 12% p.a
 T = 18months
 $I = \frac{P \times R \times T}{100}$
 $= \frac{50000 \times 12 \times 18}{100} = \text{sh. } 9000$
 $= P + I = 50000 + 9000 = \text{sh. } 59000$

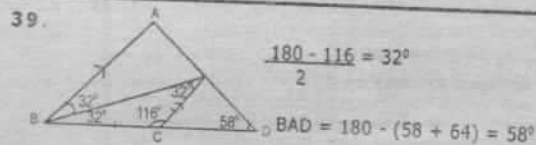
The correct answer is B.

37. B:G
 4:5 Total ratio = 9
 more = $5 - 4 = 1$
 $\frac{1}{5} = 5$
 $\frac{1}{5} = 7, \frac{1}{5} \times 5 \times \frac{1}{1} = 45$

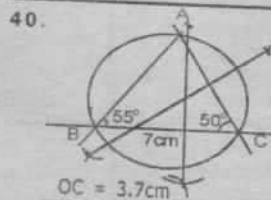
The correct answer is A.

38. P = 57.98m
 w = 8.6m
 L = x
 $L = \frac{p - 2w}{2}$
 $= \frac{57.98 - (8.6 \times 2)}{2} = 20.39m$

The correct answer is A.



The correct answer is A.



The correct answer is C.

41. D = 10%
 B.P = 27000
 M.P = ?
 $27000 = 90\%$
 $? \times 100\%$
 $\frac{27000 \times 100}{90} = \text{sh. } 30000$

The correct answer is B.

42. Bread = $30 \times 4 = 120.00$
 Sugar = $3.2 \times 80 = 120.00$
 Rice = $1\frac{1}{2} \times 80.60 = 302.25$
 Teaves = $\quad\quad\quad = 90.00$
 Maize flour = $85 \times 2 = 170.00$
 Total = sh. 802.25
 Bal = $1000 - 802.25 = \text{Sh. } 197.75$

The correct answer is C.

43. $D = 90\text{km} \times 1000 = 90000\text{m}$
 $T = 1\text{hr } 15\text{min} = 4500\text{sec}$
 $s = \frac{90000}{4500} = 20\text{m/s}$

The correct answer is B.

44. No. of posts = 44
 Interval = 3m
 $C = I \times \text{posts} = 44 \times 3 = 132\text{m}$
 $D = 132 \times \frac{1}{2} = 42\text{m}$
 $R = 42 \div 2 = 21\text{m}$

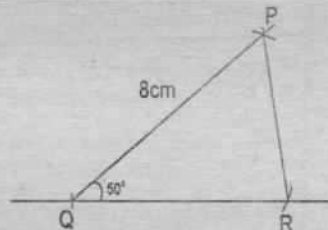
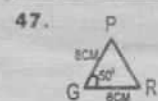
The correct answer is B.

45. $1.33 = \frac{133}{100} \times 100 = 133\%$

The correct answer is C.

46. $2x - 3 = x + 2$
 $2x - x = 2 + 3$
 $x = 5$
 $L = 7\text{cm}$
 $w = 4\text{cm}$
 $p = 2(l + w)$
 $= 2 \times 11 = 22\text{cm}$

The correct answer is D.



Line PR = 6.3cm

The correct answer is B.

48. L.C.M of 36, 48, 54 = 432
 G.C.D = 6
 $\frac{432}{6} = 72$

The correct answer is A.

49. Shaded area = $49 - (\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2})$
 $= 49 - 38.5 = 10.5$
 $\frac{10.5 \times 3}{4} = 7.875\text{cm}^2$

The correct answer is D.

50. Total distance = $225 \times 2 = 450\text{km}$
 Total time = 5hrs

$$\text{Average speed} = \frac{T.D}{T.T} = \frac{450}{5} = 90\text{km/hr}$$

The correct answer is A.

ENGLISH MARKING SCHEME 003

- Reasoning: C. Skill:** There are four skills of learning English: Reading, writing, listening and speaking. Therefore, listening is one of the four skills of English. The correct answer is 'skill'.
- Reasoning: D. Accurate:** When being asked a question, the answer expected should be compatible to the question. It should address what is asked to the point; accurately. The correct answer is 'Accurate'.
- Reasoning: B. Asked:** Questions are words of speech that require responses. Questions are asked; not said. The correct answer is 'Asked'.
- Reasoning: D. Patience:** A person who does not listen is described as impatient. He should take time to listen keenly in order to give the accurate response. The correct answer is 'patient'.
- Reasoning: B. Likely:** This question is based on adverbs of frequency and candidates must therefore learn how they are used. Here, the person is impatient and thus unlikely to give the clear instructions. The correct answer is 'likely'.
- Reasoning: A. To:** The verb Talk is normally followed by the preposition 'To' when we mean two people are in a conversation. The correct answer is 'To'.
- Reasoning: C. Because:** All candidates must be clear on the use of conjunctions in English. We are expected to give reason in this context. The correct answer is 'Because'.
- Reasoning: A. When:** The adverb of time is what the candidate is expected to use in order to fill this blank space. There are cases when the body language helps in communication. The correct answer is 'when'.
- Reasoning: B. Words:** Here is a case of simple vocabulary. What we speak are called words: the spoken word. The correct answer is 'Words'.
- Reasoning: D. Should:** This is the use of 'Should' with expectation. The speaker is expected to pronounce every single word well. The correct answer is 'Should'.
- Reasoning: C. Do:** Candidates must be very careful to avoid monotony or repetition. Use of 'Pronounce' which looks attractive, is an offence. It is same as tantamount to repetition. The correct answer is 'Do'.
- Reasoning: A. Pronunciation:** This question tests the learner's ability to spell words correctly. The correct answer is 'Pronunciation'.
- Reasoning: C. Least:** When you don't pronounce your words clearly, your audience may not understand you clearly. Your answer, therefore, will be the one they don't expect; irrelevant. The correct answer is 'least'.
- Reasoning: B. By:** 'Affected' is normally followed by the preposition 'By'. One therefore can be affected by mother-tongue influence. The correct answer is 'by'.
- Reasoning: D. Look:** The use of appropriate vocabulary based on 'Look' words. We 'see' or 'look' at things for a short time but 'watch' them over a long period of time. We can look at the speaker. The correct answer is 'look'.
- Reasoning: C. Hadn't they?:** Question tags are easy to handle if you have mastered the formula. The statement here is positive so the tag is negative. The correct answer is 'hadn't they?'.
- Reasoning: D. Do we?:** *Hardly, Never, Rarely, barely* etc., normally change the sentence they are used in as negative so the tag has to be positive; *do we?* The correct answer is 'do we?'.
- Reasoning: A. Tolerate:** This is based on the use of phrasal verbs. To 'Put up with' which means 'To tolerate'. The correct answer is 'tolerate'.
- Reasoning: C. Decided:** Again, this question is based on the use of phrasal verbs. To 'Make up your mind' means 'Decide'. The correct answer is 'decide'.
- Reasoning: D. Despise:** 'To look down upon' a person means 'To despise' that person. This is yet another question based on the use of phrasal verbs. The correct answer is 'despise'.
- Reasoning: A. "Good morning teacher?"** said Limo, "how are you?" Candidates must learn the use of punctuation marks. In specific, this one involved the use of medial verbs and the candidates needed to be very keen to get it right. The correct answer is A. "Good morning teacher", said Limo "how are you?"
- Reasoning: B. It's not easy to see Moses' children's old shoes:** The candidates were expected to identify the correct positions of the apostrophe and how it's used with proper nouns that end with 's' and words that are plural but without an 's' at the end. The correct answer is B.
- Reasoning: C. Risky:** Words that are opposite in meaning to others are called *antonyms*. Candidates have to master such words for accurate English use. The opposite of 'Safe' is 'Risky'. The correct answer is C.
- Reasoning: A. Unsatisfactory:** 'Reasonable' means the answer was making sense; acceptable to the question asked. The opposite to this is 'Unsatisfactory'. The correct answer is A.
- Reasoning: B. Allowed:** To 'Forbid' means 'to fail to allow'. The boarding teacher did not allow the children to keep cooked food in the dormitory. The opposite to this is 'Allow'. The correct answer is B.

CHANGANUZI WA KISWAHILI SIGNAL 003

- Hoja** -alikula mwande- alikosa kupata alichotarajia. alijishika tama - aliweka kiganja shavuni kuonyesha huzuni.
alijipiga jeki - alijisaidia
alitia hamnazo - alipuuza mambo
Jibu sahihi ni B - 'alijishika tama'.
- Hoja** - Kasri ni nomino katika ngeli ya LI-YA.
Jibu sahihi ni D - 'kasri hilo liligeuka'.
- Hoja** - Ufadhili - usaidizi, udhamini.
Udhalimu-kabil, maonevu.
Ubeleko - kifuko cha kubebea mtoto.
Uzinduzi- tendo ka kuzindua.
Jibu sahihi ni A - 'ufadhili'.
- Hoja** -Kukabidhiwa ni kupewa kitu au cheti, yaani kupokezwa. Kukabiliwa ni kukumbwa na jambo au kuelekeana (mkabala). Hapa tunasema alikabiliwa/ alitingwa /alizingwa.
Jibu sahihi ni C - 'alikabiliwa'.
- Hoja** - Licha ya -ni kiunganishi kinachoonyesha hali iliyokuwa kinyume. Kwa mfano, tunatarajia kumwona Maria akilemewa na vitimbi vilivyotajwa lakini siyo hali iliyokuwa. Dhidi ya- ni kuhusishi kinachoonyesha hali moja ikikinzana na nyingine. Juu ya- inaonyesha kuwa kitu kimoja kipo katika nafasi ya chini na kingine kinyume chake. Mithili ya- ni kuhusishi cha kufananiwa.
Jibu sahihi ni A - 'Licha ya'.
- Hoja** -Shinda ni kuwa wa kwanza. unasema matatizo haya na utesi huu.
Jibu sahihi ni B - 'dhiki (shida)'
- Hoja** - Mbwa hafi maji aonapo ufuko- mtu anapoipata namna ya kuitatua shida yake bila shaka ataitumia. Papo kwa papo kamba hukata jiwe- hakuna jambo lisilowezekana kwa bidii na uvumilivu.
Pavumapo palile si kazi kudamirika- Ni vyema kutunza kizuri tulicho nacho kisije kututoka. Aidha, tusipuuze ushauri maishani. Hakuna marefu yasiyokuwa na ncha- Kila jambo lina mwisho wake;liwe zuri au baya.
Jibu sahihi ni D - 'Hakuna marefu yasiyokuwa na ncha'.
- Hoja** - Upatanisho sahihi ni C. Elimu ndiyo iliyokuwa.
- Hoja** -Kujitoma ni kuingia mahali ilhali kuingilia hali fulani tunatumia kujitosa k.v katika siasa, elimu n.k
Jibu sahihi ni A - 'Kujitosa'.
- Hoja** - Tunasema viko vya waimbaji/waigaji, vikosi/vigaro vya polisi na vipeto vya barua/nafaka.
Jibu sahihi ni A - 'viko'.
- Hoja** - Ilhali ni kiunganishi cha hitilafu k.m Mbona ulimwacha chumbani ilhali unajua kuwa ana mkono mrefu? Japo-hata kama, ingawa, ijapokuwa.
Lau-kama, ikiwa, endapo, iwapo.
almradi-ilmradi, bora tu.
Jibu sahihi ni D - 'almradi'.
- Hoja** - Hii imetajwa kuwa mojawapo ya njia (yaani moja kati ya nyingi) zinazokuza.
Tanbihi. Tunasema njia mojawapo inayo... lakini mojawapo ya njia zinazo...
Jibu sahihi ni B - zinazokuza.
- Hoja** - Tunarejelea ngeli ya PA.
Jibu sahihi ni C - lililopo hapa.
- Hoja** - Hilli ni jambo ambalo tayari limetendeka.
Jibu sahihi ni A - 'wameingilia'.
- Hoja** - Hadhi- heshima, staha. Heri-mambo mazuri yampatayo mtu. Bora- enye kufaa zaidi. Kuwa radhi-kukubali, kufurahia. Jibu sahihi ni D - radhi.
- Hoja** - Inshallah-Mungu akipenda, kuonyesha matumaini.
Lahaula- kiingizi cha kuonyesha mshangao.
Shabash- kihisishi kinachoashiria furaha.
Wallahi- Neno linalotumiwa katika kiapo.
Jibu sahihi ni C - 'shabash'.
- Hoja** -Nyuta zilizotumiwa na majangili zimepatikana.
Jibu lifaalo zaidi ni D.
- Sentensi changamano huwa na kishazi huru na kishazi tegemezi k.v. **Wanafunzi waliofanya bidii wametuzwa kishazi tegemezi kishazi huru**
Sote tuna haki ya kuenda shule. (sentensi sahihi/rahisi)
Nilimweleza ukweli lakini akanipuuza. sentensi ambatano
Tulikimbia sana ili tusinyeshewe. huwa na vishazi huru viwili
Jibu sahihi ni B- Wanafunzi waliofanya bidii wametuzwa.
- Hoja** - Rununu, simu ya mkononi - Imerahisisha mawasiliano. maelezo ya ziada

Kosa la B ni ile koma ya kwanza (halifa) kuwepo)
Kiingizi Lo hufuatwa na alama hisi(!)
Kitenzi D kilhitaji nusu koloni;) badaia ya alama za dukuduku.

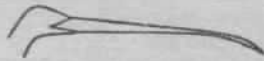
Jibu sahihi ni A.

- Hoja** - Kiwiko ni sehemu ya mkono inayofungwa saa.
Jibu sahihi ni D - 'mkono'.
- Hoja** - Uzi ulikatika akishona nguo - mnyambuliko.
Nenda ukaite shati hilo- amri
Juma ameingia darasani akasome- kusudi
Jibu sahihi ni C -Nguo iliipigwa pasi ikanyooka.
- Hoja** - Mwangwi ni sauti inayorejelea mtu anapopiga kelele k.v Pangoni, bondeni au kwenye ukumbi mkubwa.
Jibu sahihi ni B - 'Mwangwi'.
- Hoja** - Watoto walitahadharishwa dhidi ya kuchezea barabaran. kihusishi kitenzi kielezi
kielezi cha mahali
Jibu lifaalo zaidi ni D- Kihusishi, kielezi
- Hoja** - Sh-ta-ki (3) a- me- ki-le-ta (5) wa-li-shi-ri-ki-a-na (7) mak-ta-ba(3)
Jibu sahihi ni B - 'amekileta'.
- Hoja** - Mzegazega- anayechuuza maji.
dalali- mnaadi anayeua bidhaa mnaadani.
Sonara- anayetengeneza mapambo kwa madini
Jibu sahihi ni A - Mpagazi(hamali/mchukuzi)
- Hoja** - Vina ni sauti zinazofanana katikati au mwishoni mwa mshororo ilhali arudhi ni sheria zinazofuatya katika utunzi wa mashairi. Jibu sahihi ni -C -mizani.
- Hoja** -Kibe alimwambia mwanaume kuwa iwapo angeishi kwa uadilifu angeheshimika maishani.
Jibu sahihi ni D.
- Hoja** - Maji- nomino ya wingi/fungamano.
Kitabu /michoro- nomino za kawaida
Kusoma- nomino ya kitenzi jina.
Jibu sahihi ni B - Unyamavu wake hauonyeshi kutojua.
- Hoja** - Hapa tunatahini uundaji wa nomino kutokana na kitenzi. Cheshi ni sifa. Chekwa na cheksha ni vitenzi. Jibu sahihi ni A - 'ucheshi'
- Mkoba wa Kamene umepatikana. 'Wa' inaonyesha kuwa mkoba huu unamilikiwa na Kamene.
Jibu sahihi ni C - 'Kuonyesha umilikaji'.

SCIENCE MARKING SCHEME 003

- REASONING:** The correct path followed by the urine is kidney ureters → urine bladder → urethra. The correct answer is B.
- REASONING:** The negative effects of wind are: felling trees, blowing away soil(erosion) and blowing roofs off. Sailing boats is a positive effect of wind. The correct answer is C.
- REASONING:** In the above diagram of the heart, X is the vena cava transporting deoxygenated blood, Y is the pulmonary artery transporting deoxygenated blood to the lungs 'W is the aorta (main artery) transporting blood to all the body parts while Z is the pulmonary vein transporting oxygenated blood from the lungs back to the heart. Blood in the arteries is under high pressure while in veins it is under low pressure.
The correct answer is A.
- REASONING:** Birds are adapted to flying by having feathers which increase the size of wings, streamlined body to reduce air friction and hollow bones to make them light. Webbed feet is an adaptation to movement among wading birds.
The correct answer is C.
- REASONING:** Water conservation is careful storage and economical use of water to avoid wastage.
The correct answer is D.
- REASONING:** The birth process /parturition involves; contraction of uterine walls leading to labour pains, dilation of the cervix, bursting of the amnion sack and releasing of the amniotic fluid, expulsion of the baby through the cervix to the vagina/ birth canal, cutting of the umbilical cord and finally the afterbirth is released. The correct answer is A.
- REASONING:** When air is pumped into the balloon, it got inflated. This means that, the air entering the balloon needs more space for accommodation. The correct answer is D.
- REASONING:** Materials which allow light to pass through are either transparent or translucent. Mirror is opaque. Sky lights and oiled paper are translucent while clean water is transparent.
The correct answer is D.
- REASONING:** Canning preserves food by keeping air off. Refrigeration keeps the bacterial dormant while sun drying dehydrates the food/removes water.
The correct answer is A.

10. **REASONING:** People infected with HIV and AIDS needs proper diet, care and support from those they are living with. Isolation is discriminating them. **The correct answer is C.**
11. **REASONING:** Groundnuts is both an oil crop and a legume. **The correct answer is D.**
12. **REASONING:** Incisors teeth are chisel shaped, have one root and are used for biting food. **The correct answer is B.**
13. **REASONING:** In an experiment to test if light travels in a straight line, holes are made on 3 cardboards, the thread is used to align them, while the candle is used to produce light. **The correct answer is A.**
14. **REASONING:** Among the 3 states of matter, solid has definite mass, shape and volume. Liquids have definite mass and volume but not shape. Gases have definite mass and indefinite volume and shape. **The correct answer is D.**
15. **REASONING:** Food can be handled well by covering while cooking, washing before eating and washing utensils. Covering the mouth and putting right portions in the mouth is personal table manners. **The correct answer is B.**
16. **REASONING:** The books dropped at different heights, had different impacts which made them produce sounds of different volume. (soft and loud sound). **The correct answer is A.**
17. **REASONING:** The similarities between birds and fish are that, both have scales and lay eggs (birds have internal fertilization while fish have external fertilization). **The correct answer is D.**
18. **REASONING:** In the experiment shown, there was dissolved oxygen in water and there was moisture. There was no warmth due to the presence of frozen water. Therefore, there was no germination. **The correct answer is B.**
19. **REASONING:** Inorganic fertilizers provide specific nutrients to the plants. Organic fertilizers provide general soil fertility. **The correct answer is A.**
20. **REASONING:** The beaks of nectar suckers are long, thin/ slender and slightly curved.



The correct answer is D.

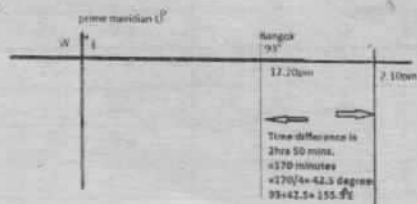
21. **REASONING:** In the lever shown, both masses were placed at the same distance from the fulcrum. That means Y is heavier than 60kgs. For them to balance, Y should move closer to the fulcrum, 60kgs should be moved far away from the fulcrum. **The correct answer is D.**
22. **REASONING:** The window stage of HIV and AIDS infection is the first stage. One looks healthy and tests negative for HIV. **The correct answer is D.**
23. **REASONING:** Clay soil has good and the highest capillarity due to small particles. It is also poorly drained because it has small air spaces. **The correct answer is A.**
24. **REASONING:** A child with thin hair that falls off easily is likely to be suffering from kwashiorkor. He/she should be fed with diet rich in Proteins. **The correct answer is D.**
25. **REASONING:** The diagram drawn represents an air thermometer, the glass wall should be thin to make it more sensitive to the temperature change. The water should be coloured to improve visibility and the straw should be thin to record any slight change of temperature. **The correct answer is A.**
26. **REASONING:** Water is used in the farm, at home, in the industries, for transport and for recreation/ enjoyment. **The correct answer is B.**
27. **REASONING:** Oiling and greasing is a way of caring and maintaining simple tools. **The correct answer is C.**
28. **REASONING:** Legumes have network veins, have broad leaves and have a tap root system. Examples are kales, beans, peas, cabbage and groundnuts. The cereals have long leaves with parallel veins and fibrous root system. Examples are maize, coconut, and wheat. **The correct answer is A.**
29. **REASONING:** The diagram drawn is a spade. It is in the third class of levers. The effort is positioned in between the load and the fulcrum. **The correct answer is D.**
30. **REASONING:** The diagram shows an Oxalis, it produces white or pink flowers and has a swollen stem at the base with fibrous roots. **The correct answer is B.**
31. **REASONING:** A weighing scale is used to measure the mass of different objects. Mass is the quantity of matter in an object and is measured in grams, kilograms and tonnes. **The correct answer is A.**
32. **REASONING:** The female parts of a flower are stigma, style, ovary and ovules. **The correct answer is D.**
33. **REASONING:** In medicines, proper labelling and storage is a proper way of handling medicine and not a proper use. **The correct answer is A.**

34. **REASONING:** The order of the planets from the sun is ; Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune. **The correct answer is D.**
35. **REASONING:** The 3 rotational grazing methods are tethering, paddocking and strip grazing. **The correct answer is B.**
36. **REASONING:** Hookworms attacks the intestines only of goats and sheep. **The correct answer is B.**
37. Hands should be washed thoroughly with soap after using chemicals but not before. **The correct answer is C.**
38. **REASONING:** The magnetic metals are steel, iron, tin, tungsten, nickel, cobalt, chromium, Alnico. While copper, silver, brass, gold, aluminium are non-magnetic. **The correct answer is C.**
39. **REASONING:** Decantation is a method of separating insoluble solid from liquids. Salt dissolves in water and can only be separated by evaporation or distillation. **The correct answer is D.**
40. **REASONING:** When garden soil is put in a clear bottle, water added and shaken, different soil components are observed as organic matter is suspended on water. **The correct answer is B.**
41. **REASONING:** Fibre in the diet prevents constipation by making the food bulky, facilitating movement of undigested food and making movement of food during digestion easier. **The correct answer is D.**
42. **REASONING:** The useful non-green plants are mushroom used as food. Yeast used in baking and penicillium used to make medicine. **The correct answer is A.**
43. **REASONING:** The materials for completing the circuit should be good conductors of electricity. The electric conductors are; all metals, carbon, water and graphite. Poor conductors of electricity are mostly non-metals such as glass, rubber, plastic e.t.c **The correct answer is A.**
44. **REASONING:** A wind vane is a weather instrument that points the direction from which the wind blows. It should be placed in an open place with freely blowing wind. The tail is larger and heavier than the head. **The correct answer is D.**
45. **REASONING:** Softening hard water means removing the mineral salts found in it. Temporary hardness is removed by boiling while permanent hardness is removed by adding chemicals. **The correct answer is A.**
46. **REASONING:** Shoes have rough soles / treaded soles to increase friction. When the treads wear out, the friction between the sole and the ground becomes less and therefore the shoe becomes less efficient. **The correct answer is D.**
47. **REASONING:** Placenta is a disc -shaped organ connecting the mother and the foetus in the womb. It facilitates food, gaseous exchange and waste transfer between the foetus and the mother. Prevention of foetus from shock is a function of amniotic fluid. **The correct answer is B.**
48. **REASONING:** A cork floats on water because of the material. **The correct answer is A.**
49. **REASONING:** Gully erosion is best controlled by building gabions/ porous dams /check dam. Sheet and splash erosions are best controlled by planting cover crops while rill erosion is controlled by digging terraces. **The correct answer is C.**
50. **REASONING:** Mass education involves creating awareness to a group of people assembled together. **The correct answer is B.**

SOCIAL STUDIES MARKING SCHEME 003

1. **REASONING:** In this question, the compass should be drawn at the cattle dip then a line directed towards the saw mill to identify the direction. **The correct answer is A.**
2. **REASONING:** There is a telephone line connecting Tora market and Bebe market. This is the fastest means of communication for urgent messages. **The correct answer is D.**
3. **REASONING:** The south western part of Kari area has a planted forest which acts as the water catchment area. Indigenous species are mainly found in natural forests. **The correct answer is C.**
4. **REASONING:** The cattle dips in the N. Eastern and South western parts of Kari area shows cattle keeping. **The correct answer is B.**
5. **REASONING:** In Kari area, the following economic activities are represented. Tourism shown by the Game park, Trading shown by the market and the town and lumbering shown by the presence of the saw mill. There is no quarry in the area to indicate mining. **The correct answer is C.**
6. **REASONING:** The area enclosed by the game park has 10 complete squares and 16 incomplete squares $10 + (16 \div 4) = 10 + 4 = 14 \text{KM}^2$. **The correct answer is B.**
7. **REASONING:** The air strip found near the Game park in Kari area is likely to transport tourists to and from the Game park. **The correct answer is D.**

8. **REASONING:** The settler farmers introduced new farming methods and new breeds of cattle. **The correct answer is B.**
9. **REASONING:** The school management committee is responsible for the physical planning and management of the school. This involves use of money. **The correct answer is B.**
10. **REASONING:** Population growth rate in Kenya is higher than Germany because most of the people in Kenya are young and therefore at the child bearing age (reproductive). **The correct answer is A.**
11. **REASONING:** Before the coming of the Europeans, the main inhabitants of South Africa were the Khoisan. They earned their living by hunting and gathering. **The correct answer is D.**
12. **REASONING:** The town marked T is Eldoret. It is the headquarters of the Uasin Gishu county. It started as Agricultural collection centre during the colonial period. It is found in a wheat growing area. The towns found along the coast started as trading centres by the Arabs. **The correct answer is A.**
13. **REASONING:** The river project marked S is the Seven folks scheme found along R. Tana. It was mainly established to generate Hydro electric power for industrialization. **The correct answer is B.**
14. **REASONING:** Johanne Rebman was a missionary who arrived at Rabai in 1846 and together with Ludwig Krapf, they built a mission station at Rabai after arriving in East Africa in 1846 and began missionary work among the coastal tribes. Though he felt he was only incidentally an explorer, he began expeditions into the interior and in May 1848, was the first European to see Mt. Kilimanjaro. **The correct answer is C.**
15. **REASONING:** The route marked M during the early migration was used by the Cushites. They originated from the horn of Africa. **The correct answer is C.**
16. **REASONING:** Mwea Tebere irrigation scheme has led to the growth of Waguru town. **The correct answer is D.**
17. **REASONING:** Climate change and global warming is mainly influenced by both human and natural factors. Volcanic eruption leads to emission of some harmful gases in the atmosphere which leads to increase of the temperatures round the earth. **The correct answer is B.**
18. **REASONING:** The conditions described above are suitable for the growth of cloves. It does well in warm and wet areas. Cotton does well in hot and dry areas while coffee and tea requires cool and wet conditions. **The correct answer is A.**
19. **REASONING:** Letters of administration is the authority given by the court to the heir of a property to have control over the property of the deceased. **The correct answer is B.**
20. **REASONING:** The Portuguese in Mozambique used the assimilation/ Assimilado policy to administer their colony. **The correct answer is D.**
21. **REASONING:** The fresh water lakes in the rift valley are L. Turkana, L. Baringo, L. Naivasha, L. Rukwa, L. Albert and L. Tanganyika. **The correct answer is A.**
22. **REASONING:** The highlands of Kenya are densely populated because they have good climate and fertile red volcanic soils. **The correct answer is B.**
23. **REASONING:** The British wanted to colonize Nigeria to have full control of R. Niger. **The correct answer is C.**
24. **REASONING:** The diagram shows Block mountains / horsts. In Africa, they are: Mt. Rwenzori in Uganda, Usambara and Pare in Tanzania, Mau and Aberdares in Kenya, Danakil Alps in Ethiopia and the Great Karas in Namibia. **The correct answer is A.**
25. **REASONING:** Settlement schemes in Kenya were established to settle the landless people. Examples are Bura and Olkalou Schemes. Irrigation schemes established after independence were meant for increasing food production in the country. Examples are Galole, Kulalu, Hola, Perkerra, Mwea Tebere, ahero and Sotik. **The correct answer is B.**
26. **REASONING:** In the year 2002, OAU (Organization of African Union) was changed to AU, this was to solve the emerging problems facing Africa. **The correct answer is A.**
27. **REASONING:** The main tourist attraction in Egypt include; The Pyramids, the great Sphinx of Giza, The Simbel temples south of Aswan, The mosque of Muhammad Ali Pasha in Cairo, Mt. Sinai, Ancient Burtal ground of Saqqara, Nile Cruises, the Suez canal and the Tahrir Square. **The correct answer is C.**
28. **REASONING:** People with special needs should be treated fairly by giving them equal leadership positions and opportunities as the others. **The correct answer is D.**
29. **REASONING:** Pipeline transports liquids and gases. Cable transport is used to transport electricity and data. **The correct answer is B.**
30. **REASONING:** The steep slopes and other hilly terrains hinders the construction of railway and roads. This is the main problem facing road and rail transport in Ethiopia. **The correct answer is D.**
31. **REASONING:** The diagram below shows the information in the question.



32. In Kenya, Basic education is free and compulsory. It is every child's right to go to school. **The correct answer is C.**
33. Both the Government of Kenya and Swaziland are similar in that, the heads of states appoints the ministers (Kenya: cabinet secretaries). **The correct answer is B.**
34. The sprouting of new leaves by some plants during the traditional African society showed the onset of rainfall. **The correct answer is A.**
35. **REASONING:** The trans-African highway starts from Mombasa Kenya, crosses through Uganda, Rwanda, DRC Congo, Cameroon and end in Nigeria. **The correct answer is C.**
36. **REASONING:** The Kenyan constitution promotes justice and fairness to all. **The correct answer is C.**
37. **REASONING:** The weather instrument shown in the diagram is an anemometer. It is used to measure speed of wind. **The correct answer is D.**
38. **REASONING:** The flower farming around L. Naivasha has led to pollution by the chemicals released from the flower farms. This has affected fishing in the lake. **The correct answer is A.**
39. **REASONING:** The best method for controlling rapid population growth is to educate people on the importance of small and manageable families. **The correct answer is C.**
40. **REASONING:** The Samori Toure of the Mandinka people resisted the French because he wanted to preserve the independence of his people. **The correct answer is D.**
41. **REASONING:** The vegetation of the tropical rain forest has the following characteristics. Tall trees with broad leaves forming canopies. Evergreen leaves, buttress roots, little or no undergrowth, creepers and climbers. **The correct answer is B.**
42. **REASONING:** School promotes peace in the society by teaching morals to the young ones and useful future social and life skills. **The correct answer is C.**
43. **REASONING:** During the precolonial period, all Africans kept livestock. The migration did not affect the economic activity. **The correct answer is A.**
44. **REASONING:** Horticultural products in both Kenya and Netherlands are used both locally and also exported to the neighbouring countries. **The correct answer is D.**
45. **REASONING:** The expansion of the old Ghana Kingdom was mainly influenced by the Trans-Saharan trade which took place across the Sahara desert. **The correct answer is A.**
46. **REASONING:** Alcohol and other legal drugs are commonly abused in Kenya because they are readily available for sale in shops. **The correct answer is B.**
47. **REASONING:** People should solve disputes well in the society to promote peace. **The correct answer is A.**
48. **REASONING:** Alluvial, young soil or silt is formed by river erosion and deposition of the top eroded soil. It has small particles. It is very fertile for growth of various crops. **The correct answer is C.**
49. **REASONING:** Rural to rural migration is mainly caused by people migrating to high rainfall agricultural areas. **The correct answer is B.**
50. **REASONING:** According to the Maasai myth explaining their origin, their ancestor; Ole Mwenje was lowered to Ngong' hills from heaven by God with cows. **The correct answer is D.**
51. **REASONING:** Accepting election outcome during general election, tolerance and appreciating each others way of social and economical life leads to peace in the country. **The correct answer is B.**
52. **REASONING:** Prehistorical sites are places where human remains and tools used in the past are found. They are preserved mainly to attract tourists. **The correct answer is B.**
53. **REASONING:** The main cause of immigration into Kenya is to work and establish businesses. **The correct answer is C.**
54. **REASONING:** First aid is the medical assistance given to accident victims at the accident scene to enable them reach to the medical facility for treatment. It is not meant for full recovery. **The correct answer is B.**
55. **REASONING:** Nelson Mandela was jailed for 27 years in Robben Island. He was later released in 1991 and formed a multiracial government with Fredrick De Klerk. He won the Noble Peace prize in the year 1994 for reconciling the blacks and whites in South Africa. **The correct answer is A.**
56. **REASONING:** The capital city of Swaziland is Mbabane, Mali= Bamako, Morocco=Rabat and Gabon= Libreville. **The correct answer is C.**
57. **REASONING:** The main problem facing Regional trading organizations in Africa is production of similar goods. This is because most of the African countries rely on Agricultural activities. They depend on natural climate and therefore grow similar crops supported by the climatic condition. **The correct answer is A.**
58. **REASONING:** Participation of the citizens in the elections enables them to take part in the formation of the Government. **The correct answer is D.**
59. **REASONING:** Members of the parliament are elected to represent constituencies. **The correct answer is D.**
60. **REASONING:** Some of the reasons for losing a parliamentary seat are; death, being insane, nullification of the election results by the high court, being declared bankrupt by the court, absence from the parliament for 8 consecutive sessions without speakers permission. **The correct answer is C.**