



EXAMINATION NO.:

THE MALAWI NATIONAL EXAMINATIONS BOARD

2021 JUNIOR CERTIFICATE EXAMINATION

PHYSICS

SAMPLE PAPER

(100 marks)

Subject Number: J164

Time Allowed: 2 hours

Instructions

1. The paper contains 12 printed pages. Please check.
2. Fill in your Examination Number at the top of each page.
3. This paper contains three sections A, B and C. For Section A encircle the letter representing the right answer to each question. Section B and C should be answered in the spaces provided.
4. Answer all the thirty three questions.
5. Use of standard electronic calculators is allowed.
6. In the table provided on this page, tick against the question number you have answered.
7. Hand in your paper to the invigilator when time is called to stop writing.

Question Number	Tick if answered Qs 21 to 33	Do not write in these columns
1-20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		

SECTION A (20 marks)Answer **all** questions in this section.

Encircle the letter representing the correct answer.

- 1.** In which of the following situations is work being done?
- being chased by a dog in a dream
 - solving mathematical problems mentally
 - thinking of how to get rid of problems
 - closing and opening eyelids
- 2.** An independent variable is the variable that
- remains constant throughout the experiment.
 - is not part of the experiment.
 - is changed first in the experiment.
 - responds to change in the other variable.
- 3.** Which part of a thermos flask prevents heat loss by radiation?
- cork
 - vacuum
 - silvered glass
 - shiny metal
- 4.** Tin-lead alloy is used in a fuse because it has
- low boiling point.
 - high boiling point.
 - high melting point.
 - low melting point.
- 5.** Which of the following should be considered when determining the density of a substance?
- matter and weight
 - mass and volume
 - matter and volume
 - mass and weight
- 6.** What type of machine is a pair of scissors?
- inclined plane
 - wedge
 - pulley
 - lever
- 7.** Liquids that conduct electricity are called
- conductors.
 - electrolytes.
 - insulators.
 - electrodes.
- 8.** If a force is exerted on an object in the direction in which the object is moving, the object will
- stop moving.
 - decrease speed.
 - change direction.
 - increase speed.
- 9.** An object appears to be bent when it is partially submerged in water because light rays are
- transmitted through water.
 - absorbed by water.
 - refracted by water.
 - reflected by water.

Continued/...

Figure 1 is a diagram of part of an electric circuit. Use it to answer Questions 10 and 11.

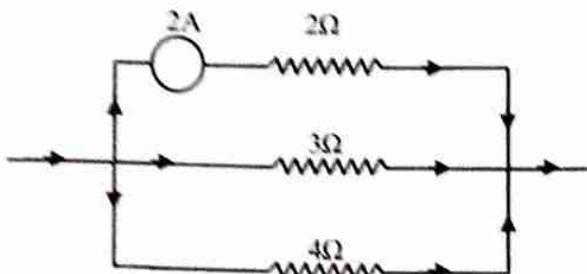


Figure 1

10. What name is given to this resistor arrangement?
 A. series
 B. parallel
 C. short circuit
 D. closed circuit
11. The voltage across the 2 ohm resistor is
 A. 1V.
 B. 2V.
 C. 3V.
 D. 4V.
12. Calculate the power of a machine that raises a 12kg bag through a height of a 5m in 120 seconds.
 A. 5W
 B. 60W
 C. 120W
 D. 300W
13. How long would it take to hear a sound produced 660m away if the speed of sound is 330m/s?
 A. 0.5s
 B. 2s
 C. 330s
 D. 990s

14. W, X, Y and Z represent charged objects. If W is repelled by X and Y but attracted by Z, which of the following gives the correct charges on the objects?

	W	X	Y	Z
A	-	-	-	+
B	-	+	+	-
C	+	-	-	-
D	+	+	-	-

15. Why is nichrome wire suitable for use as an element of an electric kettle?
 A. It has low resistance.
 B. It has low melting point.
 C. It produces a lot of heat.
 D. It does not expand.
16. A fair test is an investigation in which
 A. all variables are kept constant.
 B. all variables are changed.
 C. only one variable is changed.
 D. only one variable is kept constant.

17. **Figure 2** is a diagram showing a ray of light striking a surface of a mirror.

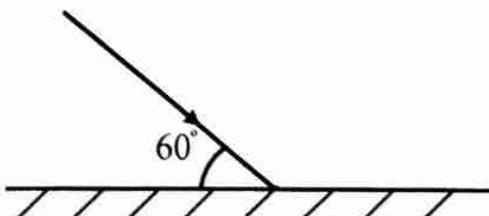


Figure 2

- What is the value of angle of incidence?
- A. 120°
 - B. 90°
 - C. 60°
 - D. 30°

Figure 3 is a graph showing the relationship between mass of a metal and its volume. Use it to answer questions 18 to 20.

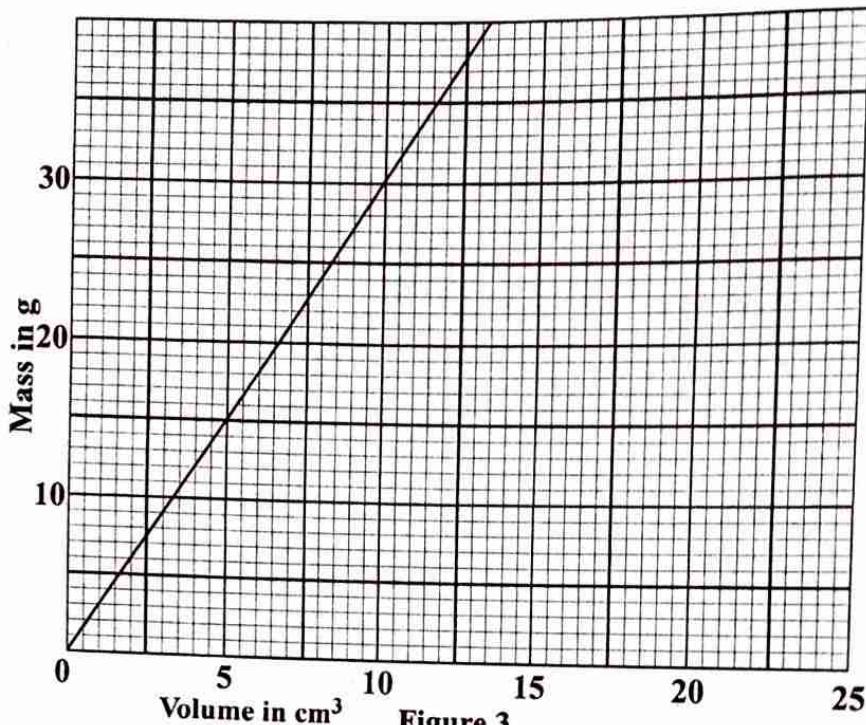


Figure 3

18. What is the relationship between 'mass' and 'volume'?
- A. As mass increases volume increases proportionally.
 - B. As mass increases volume decreases proportionally.
 - C. As mass increases volume remains the same.
 - D. As mass decreases volume increases.
19. From the graph, what is the volume of 18g mass of the metal?
- A. 5 cm³
 - B. 6 cm³
 - C. 7 cm³
 - D. 18 cm³
20. Find the density of the metal.
- A. 0.33 g/cm³
 - B. 3 g/cm³
 - C. 30 g/cm³
 - D. 90 g/cm³

Section B (50 marks)

Answer all the questions in the spaces provided.

21. a. State any **three** properties of solids.

(3 marks)

- b. State the energy changes that take place in a burning candle.

(2 marks)

22. a. Explain how temperature affects resistance of a wire.

(3 marks)

- b. Apart from temperature, name **two** other factors that affect electrical resistance of a wire.

(2 marks)

23. a. What are isotopes?

(1 mark)

- b. Name **two** sub-atomic particles found inside the nucleus of an atom.

(2 marks)

- c. State any **two** uses of nuclear radiations.

(2 marks)

24. a. State the stage of scientific investigation that

- (i) gives a predicted solution.

(1 mark)

- (ii) involves observing and recording.

(1 mark)

Continued/...

24. (Continued)

- b. Give any **three** advantages of presenting experimental data in table form.

(3 marks)

25. **Figure 4** is a diagram showing a 25kg mass hung on a spring. The mass is at rest.

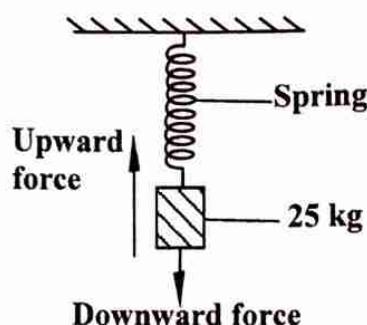


Figure 4

- a. Name the downward force acting on the mass.

(1 mark)

- b. What is the weight of the load?

(1 mark)

- c. Calculate the upward force of the spring.

(3 marks)

Continued/...

26. Figure 5 is a circuit diagram in which bulbs B_1 , B_2 and B_3 are identical.

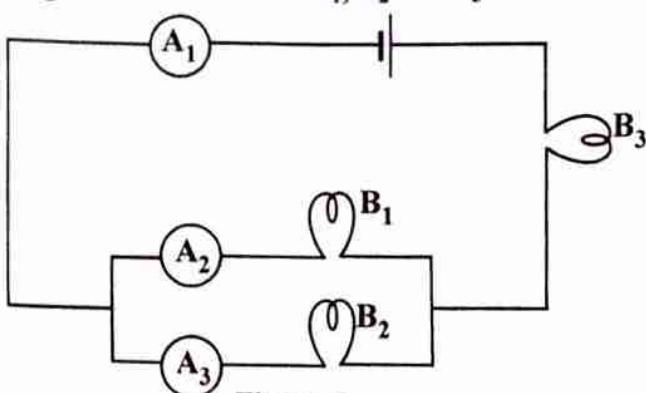


Figure 5

- a. Draw an arrow on the diagram showing the convectional direction of electric current.
(1 mark)
- b. If ammeter A_3 reads **0.2A**, what are the readings of ammeters A_1 and A_3 ?

- c. Give a reason for the answer to 26b.

(2 marks)

27. a. Why does sound travel faster in solids than in liquids?

(2 marks)

- b. Explain how the principle of action and reaction forces helps a person to move forward.

(2 marks)

(3 marks)
Continued/...

28. a. State, in the correct order, energy changes that take place in a pendulum as it swings from side to side.

(3 marks)

- b. Why does a ball moving on a floor eventually stop?

(2 marks)

29. a. State any two disadvantages of friction on a moving bicycle.

(2 marks)

- b. Give the SI unit of "force"

(1 mark)

- c. **Figure 6** is a diagram of an instrument for measuring force.

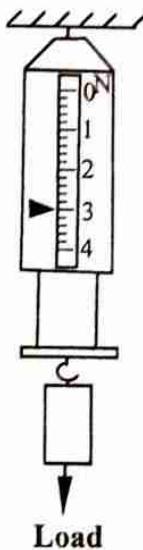


Figure 6

- (i) Name the instrument.

(1 mark)

Continued/...

29. c (Continued)

- (ii) What is the value of the load?

(1 mark)

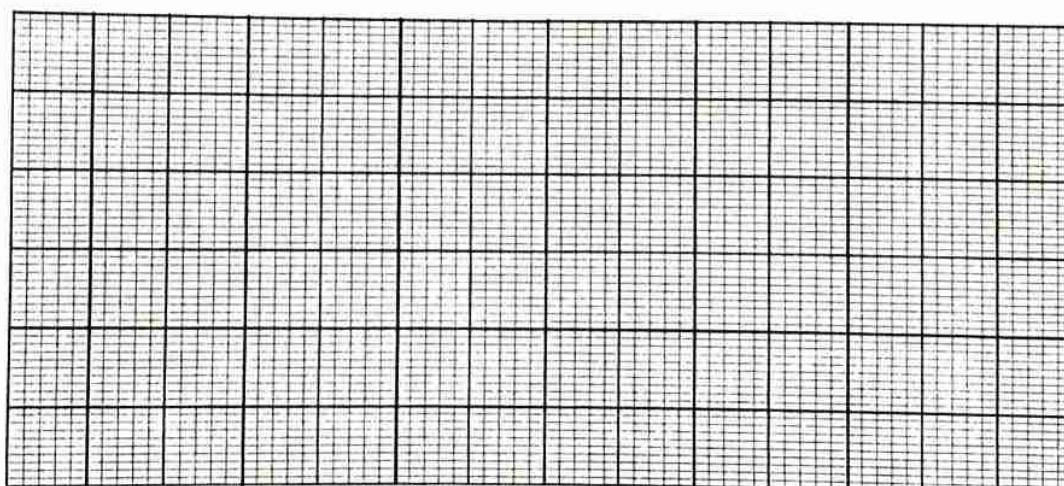
30. Table 1 shows the relationship between the quantity of water and time taken to heat it to 50°C.

Table 1

Quantity of water (cm ³)	Time taken (minutes)
1,000	5
2,000	10
3,000	15
4,000	20

Plot a graph of time against quantity of water.

(5 marks)



Continued/...

Section C (30 marks)

Answer all questions in the spaces provided.

31. a. Explain how a fuse protects an electrical appliance from damage.

(5 marks)

Figure 7 is a diagram of a roof arrangement.

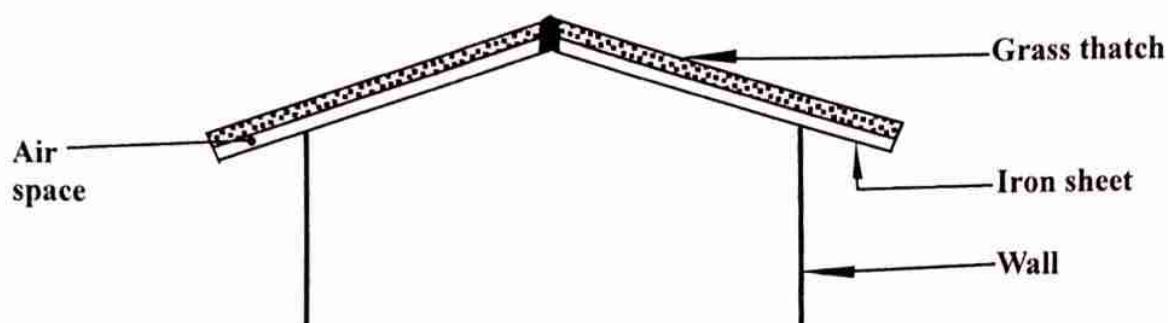


Figure 7

- b. Explain how the arrangement of grass thatch and air space in the roof help to keep the house cool on a hot day.

(5 marks)

Continued/...

32. a. Explain the effect of increasing the length of a plank on the mechanical advantage of an inclined plane.

(5 marks)

- b. With the aid of a well labelled diagram, describe an experiment that can be done, using candle wax, to show that a physical change can easily be reversed. (5 marks)

33. a. In an investigation, a student changed voltage in a transformer and noted the current in the transformer. The results obtained are shown in **Table 2**.

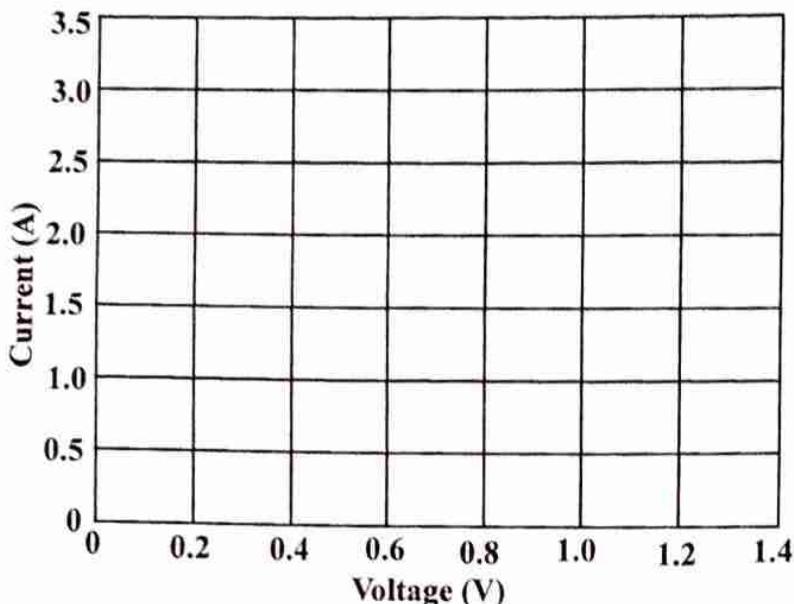
Table 2

Voltage (V)	Current (A)
0.2	3.0
0.4	2.5
0.6	2.0
0.8	1.5
1.0	1.0

Continued/...

33. a (Continued)

- (i) Draw the graph of current (A) against voltage (V) (4 marks)



- (ii) From the graph, state the relationship between current and voltage.

(1 mark)

- b. Describe an experiment that could be done to show that heating water results in a physical change while heating a piece of wood results in a chemical change.

(5 marks)

END OF QUESTION PAPER

NB: This paper contains 12 printed pages.



EXAMINATION NO.: _____
THE MALAWI NATIONAL EXAMINATIONS BOARD
2021 JUNIOR CERTIFICATE EXAMINATION

ENGLISH

SAMPLE PAPER

Subject Number: J052/I

Time Allowed 1hour 30 mins

PAPER I

(50 marks)

Instructions

1. This paper contains 7 printed pages.
Please check.
2. Answer **all** questions in all the sections.
3. In Section A, encircle the letter representing the right answer to each question. In Sections B and C, write your answers in the spaces provided.
4. When time is called to stop writing, hand in your filled in question paper to your invigilator.
5. Write your **Examination Number** at the top of each answer sheet.
6. In the table provided on this page, tick against the question number you have answered.

Question Number	Tick Questions 21 to 27 if answered	Do not write in these columns
1 - 20		
21		
22		
23		
24		
25		
26		
27		
Total		

Section A (20 marks)

Answer all questions in this section by encircling the letter that represents the correct answer.

Questions 1 to 6

Choose the letter (**A**, **B**, **C** or **D**) which best answers each of the following items.

1. Potolani _____ last year.
 A. could have come
 B. would have come
 C. had come
 D. has come
2. My mother _____ television when I arrived.
 A. had watched
 B. was watching
 C. has been watching
 D. had been watching
3. We _____ for new prefects next week.
 A. will have voted
 B. will be voting
 C. will vote
 D. would vote
4. The _____ really enjoyed the performance
 A. audience
 B. listeners
 C. mob
 D. pack
5. Ndamyo is _____ of the hotel
 A. dropping out
 B. moving out
 C. walking away
 D. checking out
6. The _____ discussed Mwale's operation with his father.
 A. surgeon
 B. chemist
 C. pharmacist
 D. nurse

Questions 7 to 10

In each of the following questions, choose the part of speech (**A**, **B**, **C** or **D**) that best describes each of the underlined word(s) in the sentences.

7. He is neither rich nor poor.
 A. adjective
 B. conjunction
 C. adverb
 D. preposition
8. Hold the needle between your finger and thumb.
 A. conjunction
 B. preposition
 C. verb
 D. adverb
9. He is a liar.
 A. verb
 B. adverb
 C. adjective
 D. conjunction
10. I placed my bet on red and won.
 A. noun
 B. verb
 C. adjective
 D. adverb

Questions 11 to 14

Choose the letter (**A**, **B**, **C** or **D**) that best gives the meaning of the underlined expression in each of the sentences.

11. The amount appears to be a drop in the ocean compared to what he earns.
 A. small
 B. huge
 C. incorrect
 D. sufficient

12. My brother's loud music gets on my nerves.

- A. excites me
- B. annoys me
- C. inspires me
- D. soothes me

13. I will give you a hand if you like.

- A. help you
- B. invite you
- C. explain it to you
- D. accompany you

14. Don't complain. Everyone else is in the same boat.

- A. happy
- B. satisfied
- C. in the same situation
- D. doing very well

Questions 15 to 17

Choose the option (**A**, **B**, **C** or **D**) that has the **same** meaning as the underlined words.

15. Vitumbiko stays in a filthy room.

- A. spacious
- B. dark
- C. smelly
- D. dirty

16. He never uttered a word of protest.

- A. explained
- B. answered
- C. screamed
- D. said

17. Please refrain from smoking.

- A. hate
- B. reduce
- C. prevent
- D. avoid

Questions 18 to 20

Choose the word (**A**, **B**, **C** or **D**) that is **opposite** in meaning to the underlined word.

18. Madalitso is shy.

- A. frank
- B. honest
- C. polite
- D. clever

19. My friend was found guilty in the case.

- A. wrong
- B. free
- C. convicted
- D. innocent

20. Mr Maliro is reluctant to teach us.

- A. refusing
- B. unwilling
- C. ready
- D. unprepared

Section B (10 marks)

Rewrite each of the following sentences using the beginning given. Make sure you **do not** change the meaning of the original sentence and that the completed sentence is grammatically correct.

- 21.** If you do not come early, you will miss him.

Unless

(2 marks)

- 22.** The weather was very hot, but the students continued with their work.

Although

(2 marks)

- 23.** My sister prepared the breakfast and started watching a movie.

Having

(2 marks)

- 24.** The rain started falling as soon as we reached home.

No sooner

(2 marks)

- 25.** Vitumbiko does not like playing football. His brother doesn't as well.

Neither Vitumbiko

(2 marks)

SECTION C (20 marks)

Answer **one** question only. You are expected to write between **150 and 200 words** for the question you have chosen in the spaces provided.

- 26.** Imagine that you are at a boarding school and that you lost your school uniform but was later found. Write a letter to your parents informing them about the lost uniform. In your letter, you may include the following points:
- what happened for the uniform to get lost
 - how you found it
 - how you felt when you found the uniform
- 27.** Imagine that some of your fellow students drink alcohol. Write a composition on the effects of alcohol abuse.

In the composition include the following points:

- any **three** reasons why students drink alcohol
- any **two** negative effects of drinking alcohol
- any **three** things which the school should do to control the practice

(20 marks)

Continued/...

Continued/...

END OF SAMPLE PAPER

NB: This paper contains 7 printed pages.



EXAMINATION NO.:

THE MALAWI NATIONAL EXAMINATIONS BOARD

2021 JUNIOR CERTIFICATE EXAMINATION

ENGLISH

SAMPLE PAPER

Subject Number: J052/II

Time Allowed: 1 hour 30 mins

PAPER II

(50 marks)

Instructions

1. This paper contains 8 printed pages. Please check.
2. Read instructions carefully before you begin to answer the questions.
3. Answer **all** questions in all the sections. Write your answers in the spaces provided.
4. When time is called to stop writing, hand in your filled in question paper to your invigilator.
5. Write your **Examination Number** at the top of each answer sheet.
6. In the table provided on this page, **tick** against the question number you have answered.

Question Number	Tick Questions if answered	Do not write in these columns	
1			
2			
3			
4			
Total			

Section A (20 marks)

1. READING COMPREHENSION

Read the following passage carefully and answer the questions that follow.

Once there was a woman who was greatly troubled by her husband. He no longer loved her. He neglected her and seemed to care little whether she was happy or sad.

So the woman took her troubles to the medicine man. She told him her story, full of pity for herself and her sad plight. "Can you give me a charm to make him love me again?" she asked anxiously.

The medicine man thought for a moment and replied: "I will help you, but first you must bring to me three hairs from the mane of a living lion. These I must have before I can make a charm for you."

The woman thanked the medicine man and went away. When she came near her home she sat down on a rock and began to think, "How shall I do this thing? There is a lion which often comes near my village, it is true. But it is fierce and roars fearfully." Then she thought again and at last she knew what she would do.

And so, rising early the next morning, she took a young lamb and went to the place where the lion was accustomed to stroll about. She waited anxiously. At last she saw the lion approaching. Now was the time. Quickly she arose and, leaving the lamb in the path of the lion, she went home. And so it was that every day early in the morning the woman would rise and take a young lamb to the lion. Soon the lion came to know the woman, for she was always in the same place at the same time every day with a young and tender lamb, which she brought for its pleasure. She was indeed a kind and attentive woman.

It was not long before the lion began to wag its tail each time it saw her and coming close to her it would let her stroke its head and soothe its back. And each day the woman would stay quietly stroking the lion, gently and lovingly. Then one day when she knew that the lion trusted her she carefully plucked three hairs from its mane, and happily set out for the medicine man's dwelling.

"See," she said triumphantly as she entered, "here they are!" And she gave him the three hairs from the lion's mane. "How is it you have been so clever?" asked the medicine man in amazement. And so the woman told him the story of how she had patiently succeeded in winning the hairs from the lion.

A smile spread over the face of the medicine man and, leaning forward, he said: "You have tamed the lion. Now tame your husband in the same way."

Questions

- a. Why did the woman consult the medicine man?

(2 marks)

- b. What did the medicine man tell the woman to do?

(1 mark)

- c. Why did the medicine man tell the woman to get three hairs from a lion's mane?

(2 marks)

- d. Why did the lion let the woman pluck three hairs from its mane?

(2 marks)

- e. Give the meaning of each of the following words:

- (i) neglected _____ (1 mark)
- (ii) anxiously _____ (1 mark)
- (iii) fearfully _____ (1 mark)

Continued/...

- f. Did the medicine man expect the woman to succeed in getting the hairs?

(1 mark)

- g. Support your answer in (g) with evidence from the story.

(2 marks)

h. Give a title for the passage.

(2 marks)

- i. Summarize the **first three** paragraphs of the passage in your own words. Your summary should be between **20** to **30** words.

(5 marks)

Continued/...

Section B (10 marks)

2. Complete the blank spaces with one appropriate word. Each gap is worth 1 mark.

Saving is key to your financial independence. When you think about money management, saving is _____ great place to start from. A little saving goes a long _____ as it enables many people to achieve their financial goals. Saving puts you in control _____ deciding when to and when not to spend. It is about forgoing spending _____ purposes of future consumption. You can start saving on a regular _____ in preparation for future investments and large expenses.

The first step to saving starts with making a _____ to save. It is possible to save irrespective of _____ amount you earn. It is not how _____ you save that matters but how long you save. Saving just K1000 a day, will result in more _____ K365, 000 a year. Small amounts saved and invested can easily _____ into large amounts. However, a person must make a plan for savings.

SECTION C (20 marks)

Read the following poem and answer questions that follow.

3. I know

That when a grumbling old woman
Is the first thing I meet in the morning
I must rush back to bed and
Cover my head
That wandering sheep on a sultry afternoon
Are really men come from their dark graves
To walk in light
In mortal sight
That when my left hand or eyelid twitches
Or when an owl hoots from a nearby tree

I should need pluck
It means bad luck
That drink spilled goes to ancestral spirits
That witches dance in clumps of bananas
That crumbs must be left in pots and plates
Until the morn
For babes unborn
That it's wrong to stand in doorways at dusk
For the ghosts must pass-they have right of way!
That when a hidden root trips me over

Fault's not in my foot
It's an evil root
That if sleep with feet towards the door
I'll not long be fit
I know it – Yes I know it!

Superstition by Minji Karibo

Questions

- a. Identify the persona in the poem.

(1 mark)

- b. (i) What is the mood of the poem?

(1 mark)

- (ii) Justify your answer in (bi)

(2 marks)

- c. Pick examples of each of the following in the poem:

- (i) rhyme

(1 mark)

- (ii) alliteration

(1 mark)

- d. What does the hooting of an owl imply?

(2 marks)

- e. Describe any **one** theme in the poem.

(2 marks)

Continued/...

4. Read the passage below and then answer the questions that follow.

One morning Nyambo and Ganizani, boys of Gondo tribe decided to follow the noise of the birds; making noise in the nearby flowering trees. They armed themselves with catapults, bows and arrows and made their way towards the trees. When they reached the trees, Nyambo ordered Ganizani to stand quietly as he climbed up one of them.

However, just as Nyambo sat on a branch, all the birds screeched and flew away at once leaving him astonished. Ganizani laughed at him. Suddenly, a “pumbwa” in a nearby tree started its loud noise which rose to full pitch as though it too was laughing at him.

In anger, Nyambo brought out his catapult and shot blindly towards the sound. “Laugh at me, would you!” he called out. Ganizani’s laughter was cut short by the fall of the “pumbwa” to the ground. Nyambo, horrified, climbed down and the two boys gathered around the stricken bird. They looked at each other with frightened silence knowing fully well that they had broken one of the strict Gondo laws.

They had killed for the sake of killing and destroyed a bird they were forbidden to destroy. The law stated that the Gondo does not eat a “pumbwa”. Its merry laughter is allowed to go unchecked, for it brings happiness to the tribe. They call it their brother and friend.

Nyambo and Ganizani did not see their father coming towards them. He must have been looking for firewood. When he came upon them, they parted to allow him see what had happened. He checked his anger by remaining silent and picking up a fallen branch. Mercifully, he put the stricken bird out of its misery. Then he ordered the boys home.

When they got home, their mother was told to give them their meal. Nothing was said of the dead “pumbwa” but the boys knew their father would talk about it after they had eaten. None of them felt hungry and their mother only played with her food. They knew that their father had already decided about the punishment and that their mother had agreed to it, even if she felt unhappy about it.

Continued/...

It was their mother who ordered the boys to bring into the backyard their hunting weapons; the traps, the catapults and all others. They had to place them in a heap while their father carefully checked every item.

Their father spoke for the first time since they had killed the “pumbwa”. He asked for no excuses for what they had done and they did not offer any. They took the blame. That was the way of the Gondo. Since they had killed for sake of killing, the punishment was that for three months they should not hunt or use their weapons.

(Adapted from Reading and Understanding by John Seely)

- a. (i) Identify the setting of the story.

(1 mark)

- (ii) Justify **one** reason for your answer in (ai)

(2 marks)

- b. State the mood of the story.

(1 mark)

- c. Describe the character of each of the following:

- (i) Nyambo

(2 marks)

- (ii) Nyambo’s father

(2 marks)

- d. Explain **one** theme portrayed in the story.

(2 marks)

END OF SAMPLE PAPER

NB: This paper contains 8 printed pages.



EXAMINATION NO.: _____
THE MALAWI NATIONAL EXAMINATIONS BOARD
2021 JUNIOR CERTIFICATE EXAMINATION

CHICHEWA

SAMPLE PAPER

Subject Number: J032/II

Time Allowed: 2 hours

PEPALA LACHIWIRI
(Malikisi 50)

Malangizo

1. Onetsansi kuti pepala ili lili ndi masamba osindikizidwa **asanu ndi atatu.**
2. Lembani nambala yanu ya mayeso pamwamba pa masamba onse.
3. Yankhani mafunso onse m'gawo **A, B** ndi **C.**
4. Muchitebulo chili pa tsamba linochi, onetsani funso lililonse lomwe mwayankha pochonga mubokosi lomwe lilikutsogolo kwake.
5. Perekani pepalali kwa oyang'anira mayeso nthawi ikakwana.

Funso	Chongani zomwe mwayankha	Muno musalembeno
1		
2		
3		
4		

Gawo A (Malikisi 20)**KUMVETSA NKHANI**

- 1.** Werengani nkhani ili m'munsiyi mosamala ndipo tuyankhe mafunso otsatirawo.

Anthu akale ankakhala ndi moyo zaka zambiri. Anthu okalamba adalipo ambiri, choncho adalipo anthu ambiri amene sankatha kutuluka panja chifukwa cha kulephera kuyenda. Padali zifukwa zosiyanasiyana zimene zinkachititsa makolowa kuti azikhala ndi moyo wautali.

Makolo akale samalowa m'banja msanga, ankalindira kuti akhale okhwima ndi amoyo wolimba. Ntchito zimene ankagwira ndizonso zinkalimbitsa ndi kukhwimitsa matupi awo.

Akazi anali kugwira ntchito zolinganiza zakudya nthawi zonse mopanda ulesi. Akapita kokalima, ankabwerako nthawi yabwino atasiya amuna kumunda komweko. Akafika kumudzi, ankafulumira kukonza zakudya kuti akumunda aja akabwera, adzapeze zili zokonzedwa.

Masiku onse ankatenga zakudya zina zophikaphika nakadyera kumundako nthawi yopuma. Masiku ena ankangokaphikira kumunda konko, makamaka ikakhala nthawi yopalira chifukwa samaweruka msanga. Choncho anthu onse a pabanja ankadya bwino ndiponso pa nthawi yake.

Akazi omwe ankachita ulesi kapena kuchedwetsa zakudya, ankalangidwa ndi amuna awo. Ngati amuna adali ofatsa ndi osamenya, ankangokana chakudya kuti mkaziyo adye yekha, chimchulukire. Zimenezi zimawaphunzitsa akaziwo kusunga nthawi.

Maanja ambiri ankadya katatu patsiku motere: m'mawa kansima, masana zakudya zamtundu wina, madzulo nsima yambiri. Ngati maanja apachidyerano adali atatu, awa ankadya katatu nsima, kuti aliyense aphike kamodzi. Choncho tiona kuti iwo adali kukula bwino chifukwa ankadya zakasinthasinta.

(Malikisi 2)

1. (Mafunso akupitirira)

Tsopano yankhani mafunso otsatirawa.

- (a) N'chifukwa chiyani masiku akale anthu okalamba adalipo ambiri? Perekani zifukwa **ziwiri**.
-

- (b) Ndi chani chomwe chinkalimbitsa ndi kukhwimitsa matupi a anthu akale?
-
-

- (c) Perekani ntchito **imodzi** yomwe akazi ankagwira.
-

- (d) N'chifukwa chiyani akazi ankabwerako msanga kumunda?
-

- (e) Ndi nthawi iti yomwe ankangophikira zakudya kumunda konko?
-
-

- (f) Chinkachitika n'chiyani kwa akazi aulesi?
-

- (g) Kodi amuna amachita chiyani kwa akazi obweretsa chakudya mochedwa? Lembani zinthu **ziwiri**.
-
-

- (h) Perekani ubwino **uwiri** wa chidyerano.
-

(Malikisi 2)

1. (Mafunso akupitirira)

- (i) N'chifukwa chiyani anthu akale ankakula bwino?

(Malikisi 2)

- (j) Perekani matanthauzo a mawu awa :

1. kulinganiza zakudya

(Malikisi 2)

2. kulinda

(Malikisi 1)

3. chidyerano

(Malikisi 1)

- (k) Pezani mawu m'nhaniyi omwe ndi ofanana m'matanthauzo ndi awa:

1. osapanda

(Malikisi 1)

2. zilumika

(Malikisi 1)

Gawo B (Malikisi 20)**NKHANI ZAMCHEZO NDI ZOLEMBEDWA**

- 2.** Werengani nkhani ili m'munsiyi ndipo tuyankhe mafunso otsatirawo.

M'mudzi mwa Chimadzi mudali mwamuna wina yemwe adali ndi lumo. Anthu ambiri amafika kudzabwereka lumolo maka nthawi ya mmeto pamudzi pakagwa chauta. Mwini lumo samanyinyirika chifukwa iye zikamuonekera, amamumeta ndi anzake ndi lumo lake lomwelo.

Poti masiku athera kuchitseko, mwini lumo adakalamba ndipo adali ndi dazi lalikulu ngati bwalo la ndege. Mkuluyo samavutikanso ndi kumeta tsitsi chifukwa dazilo lidalanda pafupifupi tsitsi lonse m'mutu mwake. Anthu aja odzabwereka lumo adayamba kudabwa ndi makhalidwe a mkulu uja. Iye adayamba kubisa lumo lake chifukwa amati, "Ine ndiye ndikhale wowabwereka lumo. Anthu atsitsi ndi ovuta kwambiri. Iwo akabweranso kudzabwereka lumoli, ndiwauza kuti wina wabwereka kale."

Mafunso akupitirira/...

Ofuna kubwereka lumolo adazindikira kuti mkulu uja amabisa lumo lake.
Anthu ambiri m'mudzi muja amamunena mkuluyo kuti ndi wanjiru.

Tsopano yankhani mafunso otsatirawa.

- a. Kodi nkhaniyi ikuchitikira kuti?

(Malikisi 1)

- b. N'chifukwa chiyani anthu amafika kwa mwini lumo?

(Malikisi 2)

- c. Perekani makhalidwe **awiri** a mwini lumo

(Malikisi 2)

- d. Perekani zipangizo **ziwiri** zomwe mlembi mwagwiritsa ntchito
m'nkhaniyi.

(Malikisi 2)

- e. Fotokozani pamtsetse pankhaniyi.

(Malikisi 2)

- f. Ndi chani chomwe chidachititsa kuti anthu ayambe kumunena mwini
lumo uja?

(Malikisi 1)

3. Werengani ndakatulo ili m'munsimu ndipo tuyankhe mafunso otsatirawo.

Tcherani khutu ana inu

Kuti anga malangizo abwino mumve

Malangizo aphindu olimbikira sukulu

Kuti pabwino m'tsogolo mudzakhale

Dziwani kuti wakutsina khutu ndi mnasi

Musakhalekhale kusukulu ana inu

Kuti mukonze tsogolo labwino

Musamati lero kwazizira sitipita kusukulu

Mukalimbikira sukulu chuma mudzakhala nacho

Dziwani kuti kwazizira alibe mpani

Khalani akhama pantchito ana inu

Olemera alero mukuwaonawa si chabe ayi

Iwo ankagona mutu uli kukhomo

Ndipo chambiri adachipezadi

Dziwani kuti kutola khobwe ndi m'mawa

Adalipo anzaru m'mbuyomo ana inu

Pomva kuti khama lipindula ankayesa nkhambakamwa

Sukulu adaithawa, ntchito sadaipezenso

Lero ndi awo akunong'oneza bondo

Ali mbuu kutuwa kuli kosowa sopo

Dziwani kuti mawu aakulu akoma akagonera.

Tsopano yankhani mafunso otsatirawa.

- a. Kodi nkhaniyi ikuchitikira kuti?

(Malikisi 1)

- b. Kodi akuyankhula m'ndakatuloyi ndani?

(Malikisi 1)

- c. Perekani zipangizo **zitatu** zimene mlembi wagwiritsa ntchito
m'ndakatuloyi.

(Malikisi 3)

- d. Chamuchititsa woyankhulayu kupereka malangizo n'chiyani?

(Malikisi 2)

- e. Lembani kamvekedwe kandakatuloyi.

(Malikisi 1)

- f. Perekani phunziro **limodzi** lopezeka m'ndakatuloyi.

(Malikisi 2)

Gawo C (Malikisi 10)

4. Masulirani kandime kali m'munsika m'Chichewa chomveka bwino.

Natural resources are very important to us as individuals. They enable us to build our homes. From the land, we produce crops for food and sale.

(malikisi 5)

5. Fupikitsani kankhani kali m'munsika kuti kakhale ndi mawu osachepera 11 koma asapitirire 15.

M'nkhalango ya Wilira mudali nyama zambiri monga a gwape, mbawala, afisi, anyani, akalulu, nguluwe ndi akambuku. Mfumu ya nyama zonsezi udali Mkango. Mfumuyi idali kudya nyama zinzake kotero sidali kukondedwa ndi nyama zinzake.

(Malikisi 5)**MAFUNSO ATHERA PANO**

NB: Pepala ili lili ndi masamba osindikizidwa asanu ndi atatu



EXAMINATION NO.:

**THE MALAWI NATIONAL EXAMINATIONS BOARD
2021 JUNIOR CERTIFICATE EXAMINATION**

CHICHEWA

SAMPLE PAPER

Subject Number: J032/I

Time Allowed: 1 hr 30 min

**PEPALA LOYAMBA
(Malikisi 50)**

Malangizo

1. Onetsetsani kuti pepala ili lili ndi masamba osindikizidwa **asanu ndi limodzi**.
2. Lembani nambala yanu ya mayeso pamwamba pa masamba onse.
3. Yankhani mafunso onse m'gawo **A**. M'gawo **B**, yankhani funso limodzi ndipo yankhani mafunso onse m'gawo **C**.
4. Muchitebulo chili pa tsamba linochi, onetsani funso lililonse lomwe mwayankha pochonga mubokosi lomwe lili kutsogolo kwake.
5. Perekani pepalali kwa oyang'anira mayeso nthawi ikakwana.

Funso	Chongani zomwe mwayankha	Muno musalembeno
1-20		
21		
22		
23		

Gawo A (Malikisi 20)

Langizo: Zungulizani lembo lokhoza (**A, B, C** kapena **D**) m'mafunso otsatirawa.

Mafunso **1** mpaka **5**. Sankhani mtundu wa muonjezi yemwe watsekedwa mzere kunsi kwake m'ziganizo zotsatirazi.

1. Zokambirana zayenda bwino ku Zomba.
 A. wanthawi
 B. wamuyeso
 C. wamchitidwe
 D. wamalo
2. Iwo afika pano mosakayika.
 A. wamchitidwe
 B. wanthawi
 C. wamalo
 D. wamuyeso
3. Tiyamba ntchito kuno lero.
 A. wamuyeso
 B. wamalo
 C. wamchitidwe
 D. wanthawi
4. Ife mwina tipita mkuja.
 A. wanthawi
 B. wamchitidwe
 C. wopeneka
 D. wamuyeso
5. Akamba liti milandu yosautsa ija?
 A. wamchitidwe
 B. wopeneka
 C. wanthawi
 D. wofunsa

Mafunso **6** mpaka **10**. Sankhani ahatikiram'mbuyo omwe ntchito zawo ndi zotsatirazi.

6. Olamula
 - A. Ndati supita kwanu.
 - B. Kamwana kawo kafika kale.
 - C. Lero ndaona chimwana chonenepa.
 - D. Ubwere msanga ndisanakugende.
7. Ochepetsa
 - A. Kangaude wertiluma pa chala.
 - B. Ako ndi kamnyamata kochititsa chidwi.
 - C. Kapitani msanga.
 - D. Kalulu wagwera m'mbuna.
8. Otsutsa
 - A. Akulu awa saweruzika
 - B. Salazani bwalo lonse
 - C. Sangalalani, ife tapita.
 - D. Sasani fumbi m'manja mwanu.
9. Osonyeza malo
 - A. Mnyamata uja akupita kudimba.
 - B. Mwana akufuna kudya.
 - C. Kulima n'kofunika pa moyo wa munthu.
 - D. Kumvera kuposa nsembe yopsereza.
10. Okulitsa
 - A. Kamunthu aka sikamva.
 - B. Tagula zinhu zambiri.
 - C. Asenza chithumba chija.
 - D. Iwo athawa kusukulu.

Mafunso akupitirira/...

Mafunso **11** mpaka **15**. Sankhani matanthauzo a zining'a zomwe zatsekeda mzere kunsi kwavo m'ziganizo zotsatirazi.

11. Chimwemwe anamukukutira mano mayi ake atataya ndalamu.
 - A. anamumenya
 - B. anamuluma
 - C. anamukalipira
 - D. anamulalatira

12. Iyc anachita guni atalephera mayeso.
 - A. anachita mantha
 - B. anachita chidwi
 - C. anachita chibwibwi
 - D. anachita manyazi

13. Malita ndi kadziwotche, ukamuputa akuyalutsa.
 - A. wochenjera
 - B. wozindikira
 - C. wopupuluma
 - D. wopolupudza

14. Usawagule malaya awa ndi kabweremawa.
 - A. wosakongola
 - B. wosalimba
 - C. wosachapika
 - D. wosasokeka

15. Munthuyu ndi mbutuma.
 - A. wofatsa
 - B. wopusa
 - C. wosamva
 - D. wodwala

Mafunso **16** mpaka **20**. Sankhani chiganizo chomwe chili ndi mnemi wa misintho yotsatirayi.

16. Wom'chitira
 - A. Chikho chija chasweka.
 - B. Mnyamatayo sadamugulire chingwa.
 - C. Atsikana aja adathandizana kwambiri.
 - D. Nzimbe ija yabedwa.

17. Wochititsa
 - A. Aphunzitsi alepheretsa ophunzir mayeso.
 - B. Wamisala uja wamenyedwa dzulo.
 - C. Chitseko chatsekeka chokha.
 - D. Nyama ija yagulidwa yonse.

18. Wochitirana
 - A. Inu bwerani kuno.
 - B. Ine sindinamuonetsetse munthuyo.
 - C. Njinga yanga yabedwa.
 - D. Inu tionana mawa.

19. Wochitidwa
 - A. Zabwino sizikhala kutha.
 - B. Achifwamba aja agwidwa pachipata.
 - C. Atadya anagona.
 - D. Iwo samadya nyama.

20. Wochitirana
 - A. Ana akuwalembera.
 - B. Agogo aphikitsa ndiwozi.
 - C. Iwo akangana kwambiri.
 - D. Mbuzi yagundidwa ndi galimoto.

Gawo B (Malikisi 20)

Malangizo:

1. Yankhani funso limodzi lokha.

2. Lembani chimangirizo kapena kalata.

3. Mawu a chimangirizo kapena kalata a asachepere **150** komanso asapitirire **200**. Malikisi adzaperekedwa pakayalidwe kachimangirizo kapena kalata, malamulo a chiyankhulo, mfundo ndi kagwirtsidwe ntchito koyenera ka nsinjiro za chiyankhulo.

21. Lembani chimangirizo pa mutu uwu:

Mmene tingasamalire anthu okalamba. **(Malikisi 20)**

KAPENA

22. Yerekezani kuti ndinu kholo ndipo mwana wanu yemwe akukhala ndi abale anu kutali wasankhidwa kukayamba fomu 1. Lembani kalata yomufotokoza za makhalidwe oyenera akapita kusukulu. (Malikisi 20)

Gawo C (Malikisi 10)

Langizo: Yankhani mafunso onse m'gawo ili.

23. a. Werengani malonje ali m'mumsimu ndipo muyankhe mafunso otsatirawo.
“Mwalandiridwa nonse. Ndaitana ndine ngati mwini wake wadera lino.
Ndati tigundane mitu kuti tione momwe tingamangire moti ana athu
azichotseramo umbuli poti pamitengo akukhalapa m'poopsa”

(i) Kodi malonjewa ndi a mtundu wanji?

(Malikisi 1)

(ii) Angayankhule mawuwa ndani?

(Malikisi 1)

(iii) Chachititsa n'chiyani kuti woyankhula aitanitse anthu?

(Malikisi 1)

(iv) Perekani tanthauzo la chining'a choti “azichotseramo umbuli.”

(Malikisi 2)

b. (i) Lembani malangizo **atatu** omwe mungapereke kwa ophunzira
oyamba kumene fomu 1.

(Malikisi 3)

(ii) Perekani njira **ziwiri** zomwe mungaperekere uthenga wamatenda kwa
abale anu.

(Malikisi 2)

MAFUNSO AATHERA PAN

NB: Pepala ili lili ndi masamba osindikizidwa asanu ndi imodzi



EXAMINATION NO.: _____

THE MALAWI NATIONAL EXAMINATIONS BOARD

2021 JUNIOR CERTIFICATE EXAMINATION

GEOGRAPHY

SAMPLE PAPER

(100 marks)

Subject Number: J073

Time Allowed: 2 hours

Instructions

1. This paper contains 12 pages. Please check.
2. This paper has three sections: A, B and C.
3. Follow instructions for each section carefully.
4. In the table provided on this page, tick against the question number you have answered.
5. Hand in your question paper to the invigilator when time is called to stop writing.
6. **IMPORTANT**

Make sure you write your **Examination Number** in the spaces provided on all the pages of this paper before you start answering the questions.

Question Number	Tick Qs 21-26 if answered	Do not write in these columns	
1-20	<input type="checkbox"/>		
21	<input type="checkbox"/>		
22	<input type="checkbox"/>		
23	<input type="checkbox"/>		
24	<input type="checkbox"/>		
25	<input type="checkbox"/>		
26	<input type="checkbox"/>		

Section A (20 marks)

Answer **all** questions in this section by circling the correct answer. Each question carries **1 mark**.

1. Maps with large scale show
 - A. small areas with a lot of detail.
 - B. small areas with less details.
 - C. large areas with less details.
 - D. large areas with a lot of detail.
2. Which of the following is **not** a use of maps?
 - A. locating places
 - B. measuring distances
 - C. finding direction
 - D. measuring latitudes
3. Which of the following features are shown by distribution maps?
 - A. boundaries of districts
 - B. industrial zones
 - C. rainfall patterns
 - D. tourist resorts
4. Contours are lines that join places of the same
 - A. altitude.
 - B. temperature.
 - C. air pressure.
 - D. rainfall reading.
5. Which of the following is a characteristic of a trellis drainage pattern?
 - A. tributaries join the main stream at almost right angles
 - B. tributaries join main stream at acute angles
 - C. the river and its tributaries appear and disappear
 - D. streams flow from a highland creating a shape of a wheel
6. Which of the following types of deltas is triangular in shape?
 - A. arcuate
 - B. digitate
 - C. estuarine
 - D. bird's foot
7. Which of the following are features associated with the upper course of a river?
 - A. gorges, waterfalls, rapids
 - B. gorges, meanders, delta
 - C. meanders, delta, rapids
 - D. waterfalls, deltas, meanders

Continued/...

8. Which of the following is the cause of day and night?
- movement of the sun from east to west
 - movement of the earth on its axis
 - movement of the earth around the sun
 - the movement of the sun around the earth
9. On which date is the summer solstice experienced in the southern hemisphere?
- 21st March
 - 21st June
 - 23rd September
 - 22nd December
10. How does a wind vane show direction?
- The arrow points to the direction where wind is going.
 - The arrow points to the direction where wind is originating.
 - The arrow rotates faster when there is strong wind.
 - The arrow stops turning when wind is slow.
11. Which of the following is a better place for locating a wind vane?
- open space
 - in front of a house
 - on top of a building
 - between buildings
12. In which group of natural disasters do flash floods belong?
- climatic
 - biological
 - geological
 - geomorphological
13. Which of the following natural disasters is encouraged by deforestation?
- flash floods
 - earthquakes
 - volcanoes
 - gas spills
14. Why is cultivation on hill slopes discouraged?
- causes siltation of water
 - causes landslides
 - hill slopes have poor soils
 - infiltration of rain water is difficult.
15. Which of the following are factors that encourage international trade?
- desire to get products that cannot be produced locally
 - production of surplus commodities
 - encouraging regional development
 - disposing low quality products
- 1 and 2
 - 1 and 3
 - 2 and 4
 - 3 and 4

Continued/...

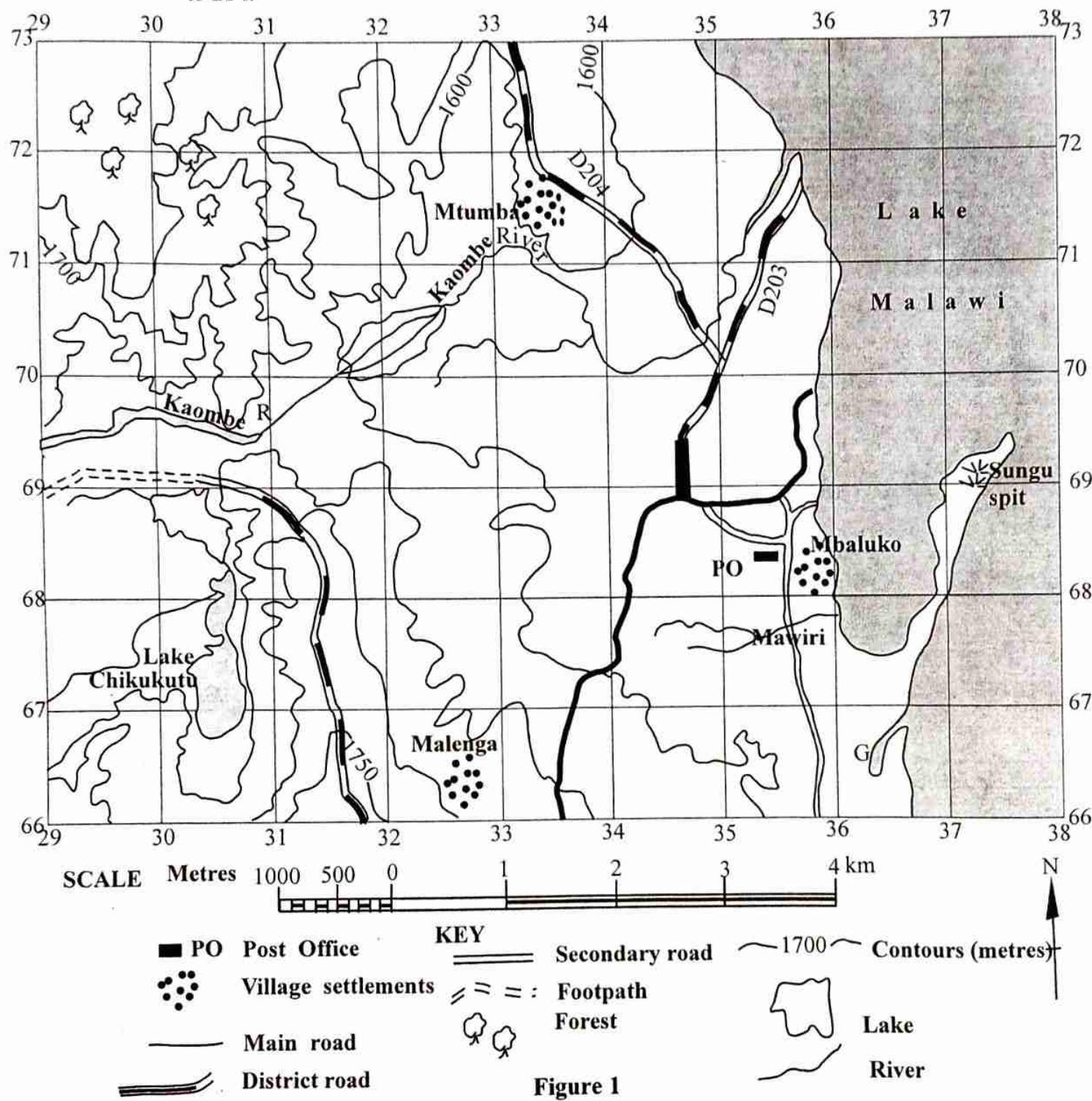
16. Which of the following is the disadvantage of road transport?
- very slow over short distance
 - expensive over long distance
 - routes are not flexible
 - has fixed time table
17. Which of the following are the problems faced by the tourism industry in Malawi?
- frequent blackouts
 - few places of interest
 - hostile political climate
 - low standards of hotels
- 1 and 2
 - 2 and 3
 - 1 and 4
 - 3 and 4
18. Which of the following features in a power station carries water from the power house back to the river?
- dynamo
 - turbine
 - tailrace
 - penstocks
19. What is the population density of a town with **100 000** people and a total area of **2000 km²**?
- 50** people/km²
 - 100** people/km²
 - 500** people/km²
 - 1000** people/km²
20. Which of the following is the problem affecting the communication sector in Malawi?
- vandalism of cables
 - unqualified personnel
 - lack of funding
 - lack of equipment

Continued/...

SECTION B (50 marks)

Answer all questions in this section in the spaces provided.

- 21.** **Figure 1** a map extract for Nkhotakota. Study it and use it to answer questions **21a** to **21i**.



Continued/...

21. (Continued)

- a. State the way in which relief has been shown on the map.

_____ (1 mark)

- b. Find the **four figure** grid reference for Mtumbalu villages.

_____ (2 marks)

- c. Identify any coastal feature in grid reference **3666**.

_____ (1 mark)

- d. State the direction of flow for Mawiri river.

_____ (1 mark)

- e. Mention any settlement pattern shown on the map.

_____ (1 mark)

- f. List any **two** occupations of the people in the area.

_____ (2 marks)

- g. Find the bearing of the Post Office from Mtumba village.

_____ (3 marks)

- h. Measure the length of **D203** river on the map to the nearest kilometre.

_____ (3 marks)

Continued/...

21. (Continued)

- i. Calculate the area of Lake Malawi as shown on the map.

(6 marks)

- 22. a. State any two components of the environment.**

(2 marks)

- b. Mention any two natural disasters that affect Malawi.

(2 marks)

- c. Why is the International Date Line important? Give any two points.

(2 marks)

Continued/...

22. (Continued)

- d. Explain any **two** processes of the hydrological cycle.

(4 marks)

23. a. Define the term "rotation".

(2 marks)

- b. Explain any **two** effects of rotation.

(4 marks)

- c. Describe any **two** developments regarding the solar system.

(4 marks)

24. a. Mention any **two** activities that have led to the decline of fish species in Lake Malawi.

(2 marks)

Continued/...

24. (Continued)

- b. Describe any **two** ways of managing forests.

(4 marks)

- c. Explain any **two** factors for the location of manufacturing industries in Blantyre.

(4 marks)

SECTION C (30 marks)

ESSAYS

There are **two** questions in this section. Answer all questions in an essay form in the spaces provided overleaf. Failure to answer the question in an essay form will lead to automatic loss of **four** marks. Each question carries **15 marks**.

25. a. Describe any **four** types of lakes.

(9 marks)

- b. Explain any **three** human activities that disturb the hydrological cycle.
(6 marks)

26. a. Explain any **four** factors that have encouraged the growth of tourism in Malawi.
(9 marks)

- b. Describe any **three** problems affecting the tourism industry in Malawi.
(6 marks)

Continued/...

EXAMINATION NO.:

J073

Page 10 of 12

Continued /

EXAMINATION NO.: _____ **J073**
Page 11 of 12

J073

Continued/

EXAMINATION NO.:
Page 12 of 12

J073

END OF SAMPLE PAPER

NB: This paper contains 12 pages.



EXAMINATION NO.: _____
THE MALAWI NATIONAL EXAMINATIONS BOARD
2021 JUNIOR CERTIFICATE EXAMINATION

**MATHEMATICS
SAMPLE PAPER**

(100 marks)

Subject Number: J131
Time Allowed: 2 hours

Instructions

1. This paper contains 10 printed pages. Please check.
2. Answer all the 15 questions in section A and all five questions in section B.
3. The maximum number of marks for each answer is indicated against each question.
4. Write your answers in the spaces provided for each question.
5. Calculators may be used.
6. The blank answer sheets provided at the end of the question paper can be used if required.
7. All working must be clearly shown.
8. Write your **Examination Number** on all pages of the question paper in the spaces provided.
9. In the table provided on this page, tick against the question number you have answered.

Question Number	Tick if answered	Do not write in these columns
1		
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SECTION A (70 marks)

Answer all the **fifteen** questions in this section

1. (a) Given that $a^2 = -2$ and $b = 5$, find the value of $a^2 - b$. **(3 marks)**

2. (a) Simplify $\frac{2c - 4}{c^2 - 4}$. **(4 marks)**

(b) Make r the subject of the formula $L = r a + n$. **(3 marks)**

3. Add 2302_5 to 1423_5 , giving your answer in base 10. **(4 marks)**

Continued/...

4. Given the sequence 11, 21, 31, 41,..., 201, calculate the number of terms. **(5 marks)**
5. (a) solve the equation $y^2 + 4y - 32 = 0$. **(6 marks)**
6. In what ratio must white beans costing K500 per kg be mixed with red beans costing K600 per kg in order for the mixture to cost K525 per kg. **(5 marks)**
7. Solve the equation $\frac{p+1}{5} + p = \frac{3}{5}$. **(4 marks)**

- 8.** The mean mass of 3 packets of sand is 400g. If the mass of 2 packets is 900g, calculate the mass of the third packet. **(3 marks)**
- 9.** The value of a bicycle depreciated by 7% in the first year. At the beginning of the second year, the value of the bicycle was K9 300. Calculate the original value of the bicycle. **(5 marks)**
- 10.** Use the logarithms to evaluate $(51.8)^{\frac{1}{3}}$, giving your answer correct to one decimal place. **(5 marks)**
- 11.** Evaluate $m^0 + 49^{\frac{1}{2}}$. **(3 marks)**

12. In figure 1, HEC and DEG are straight lines, AB is parallel to DEG, angle CBF = 92° , angle ABE = 35° .

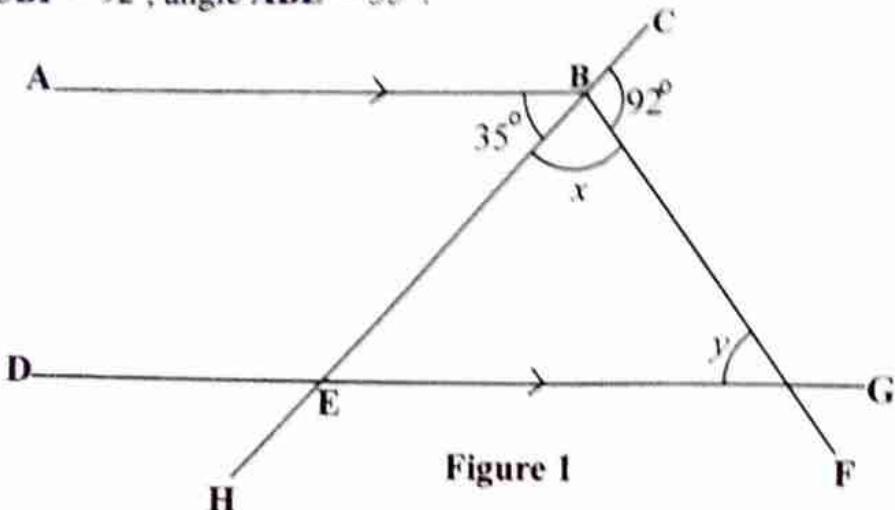


Figure 1

If angle EBF = x° and BFE = y° , calculate the values of x and y .

(6 marks)

12. Given that $P = \{2, 4, 6, 8\}$
 $Q = \{1, 2, 3, 4, 5, 6, 7\}$

List down elements in:

- (a) $P \cap Q$ (2 marks)
- (b) $P \cup Q$ (2 marks)

Continued/...

14. In figure 2, ABCD is a square.

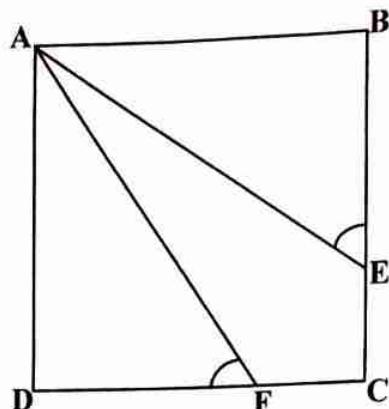


Figure 2

If angle **AEB** = angle **AFD**, show that triangle **ADF** and triangle **ABE** are
(4 marks)

15. The **table below** shows the values of x and y for the equation $y = 2x - 3$.

x	0	1	2
y	-3		1

- (a) Complete the table.
(2 marks)

- (b) Using a scale of 2 cm to represent 1 unit on both axes, draw the graph of $y = 2x - 3$ on **page 7**.
(4 marks)

Continued/...

15b. (Continued)

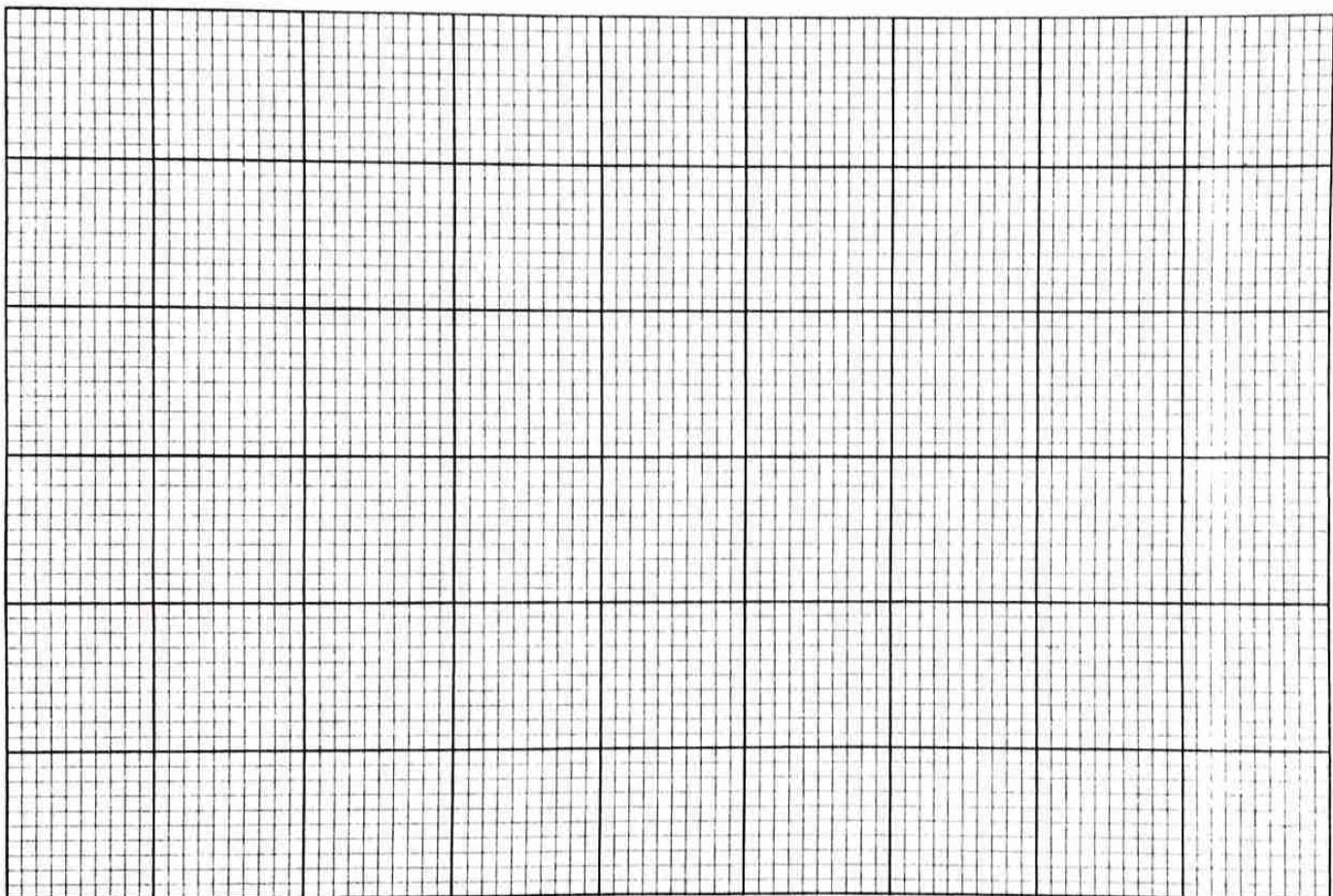
Continued/...

SECTION B (30 marks)

Answer all the **five** questions in this section

16. A cyclist left point **A** at 6:30am for point **C** which is 20 km away. At 7:00 am he stopped at point **B** for $1\frac{1}{2}$ hours having covered a distance of 12 km. He then continued at a speed of 16 km per hour.

- (a) Using a scale of 2cm to represent 4 km on the vertical axis and 2cm to represent 30 minutes on the horizontal axis, draw the distance-time graph for the cyclist. **(6 marks)**



- (b) Use the graph to find the time taken for the cyclist to reach destination. **(2 marks)**

Continued/...

17. In a competition, team A scores n goals and team B scores $(n+5)$ goals. If the total number of goals scored by both teams is less than 15, formulate an inequality in n and solve it. (4 marks)
18. Figure 3 shows a parallelogram RSTU in which angle $\text{RUT} = (2x + 30)^\circ$ and $\text{RST} = (7x - 25)^\circ$.

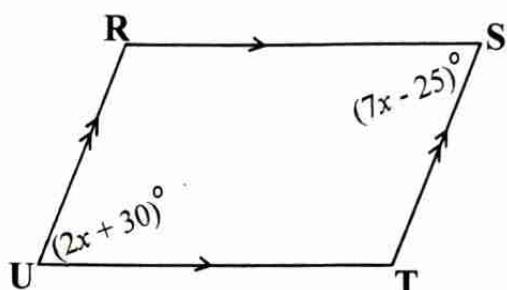


Figure 3

Calculate the value of angle STU. (6 marks)

19. Using a ruler and a pair of compasses only, construct in the same diagram:
- (a) An equilateral triangle of side 5 cm. (2 marks)
- (b) Construct the circumscribed circle of the triangle PQR. (4 marks)
20. Figure 4 shows a closed cylinder with diameter 7cm and height 20cm.

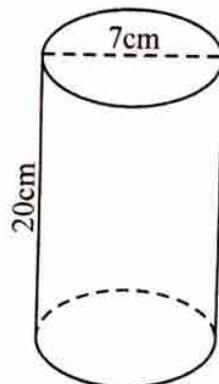


Figure 4

Calculate the total surface area of the cylinder. $\left(\text{Take } \pi = \frac{22}{7} \right)$. (6 marks)

END OF QUESTION PAPER
NB: This paper contains 10 printed pages.



EXAMINATION NO.: _____
THE MALAWI NATIONAL EXAMINATIONS BOARD

2021 JUNIOR CERTIFICATE EXAMINATION

**CHEMISTRY
SAMPLE PAPER**

(100 marks)

Subject Number: J038

**Time Allowed: 2 hours
8:00 – 10:00 am**

Instructions

1. This paper contains 33 printed pages. Please check.
2. Write your **Examination Number** in the spaces provided on every page of the question paper.
3. Answer **all** the 33 questions.
4. This paper contains sections **A**, **B** and **C**. For Section **A**, encircle the letter representing the right answer to each question. Sections **B** and **C** should be answered in the spaces provided.
5. In the table provided on this page, tick against the question number you have answered.
6. Hand in your paper to the invigilator when time is called to stop writing.

Question Number	Tick Questions if answered	Do not write in these columns
1 – 20		
21		
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Total		

SECTION A (20 marks)

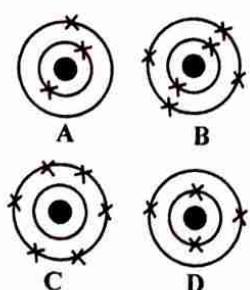
There are **twenty** questions in this section. Encircle the letter of your choice representing the right answer.

1. What is the chemical formula of butanol?
 - A. C₄H₈
 - B. C₄H₁₀
 - C. C₄H₉OH
 - D. C₄H₉Br
2. A positively charged atom has more
 - A. electrons than neutrons.
 - B. protons than electrons.
 - C. protons than neutrons.
 - D. electrons than protons.
3. Which of the following organic compounds is likely to be a gas at room temperature?
 - A. C₄H₁₀
 - B. C₅H₁₂
 - C. CH₃OH
 - D. C₂H₅OH
4. Which of the following reactions would result in the production of salt and water?
 - A. addition
 - B. combustion
 - C. neutralisation
 - D. substitution

5. Carbon dioxide is an example of
 - A. an element.
 - B. a compound.
 - C. a mixture.
 - D. a hydrocarbon.
6. Which of the following gases does **not** lead to the formation of acid rain?
 - A. SO₂
 - B. NO₂
 - C. CO₂
 - D. O₂
7. Which of the following methods is used for separating different components of ink?
 - A. chromatography
 - B. filtration
 - C. distillation
 - D. evaporation
8. What is the total number of atoms contained in one molecule of (NH₂)₂CO?
 - A. 4
 - B. 6
 - C. 7
 - D. 8
9. Which of the following are halogens?
 - A. Li and Na
 - B. N and P
 - C. F and Cl
 - D. He and Ne

Continued/...

10. Which of the following atomic structures represents a halogen?



11. Which of the following is a chemical change?

- A. burning of wood
- B. grinding millet
- C. melting a candle
- D. boiling water

12. Which of the following are properties of alkenes?

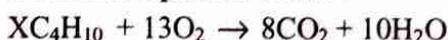
- 1. burning in air
- 2. undergoing substitution reaction
- 3. being insoluble in water
- 4. undergoing addition reaction

- A. 1, 2 and 3
- B. 1, 2 and 4
- C. 1, 3 and 4
- D. 2, 3 and 4

13. Which of the following elements is found in all organic compounds?

- A. hydrogen
- B. sulphur
- C. oxygen
- D. carbon

14. What is the value of X in the chemical equation below?



- A. 2
- B. 4
- C. 8
- D. 16

15. An atom has 18 protons and 22 neutrons in its nucleus. What is its mass number?

- A. 18
- B. 22
- C. 40
- D. 58

16. Which of the following organic compounds is insoluble in water?

- A. C_4H_{10}
- B. C_3H_7OH
- C. CH_3OH
- D. CH_3COOH

17. Which of the following will react with sodium metal?

- 1. H_2O
 - 2. C_2H_5OH
 - 3. C_2H_6
 - 4. C_2H_4
-
- A. 1 and 2
 - B. 1 and 3
 - C. 2 and 4
 - D. 3 and 4

Continued/...

Figure 1 below shows some elements of the periodic table. Use it to answer questions **18** to **20**.

H							He
Li	Be	B	C	N	O	F	Ne
Na	Mg	Al	Si	P	S	Cl	Ar
K	Ca						

Figure 1

18. Which of the following chemical symbols represents an alkali metal?

- A. Li
- B. Mg
- C. Si
- D. Al

19. What is the atomic number of nitrogen (N)?

- A. 1
- B. 2
- C. 5
- D. 7

20. Which of the following pairs of elements have similar chemical properties?

- A. H and He
- B. Na and Mg
- C. F and Cl
- D. K and Ca

SECTION B (50 marks)

Answer **all** questions in this section in the spaces provided.

21. a. Why is it important to control variables that are **not** being tested in an experiment?

(1 mark)

Continued/...

21. (Continued)

- b. Figure 2 shows a graph of time taken to heat water to 60°C against the quantity of water heated.

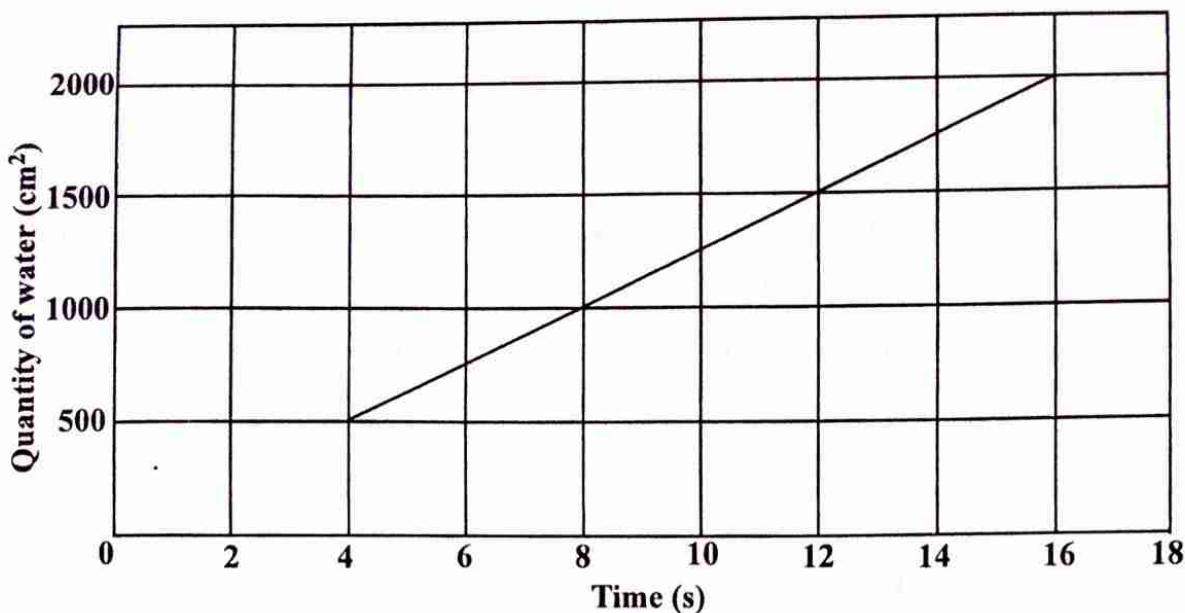


Figure 2

- (i) What is the relationship between the quantity of water and time taken to heat water to 60°C?

(2 marks)

- (ii) What time would it take to heat 1250 cm³ of water to 60°C?

(1 mark)

- (iii) Name the dependent variable in the experiment.

(1 mark)

22. a. Explain one advantage of using a universal indicator over litmus paper in the determination of acidity of a solution.

(3 marks)

Continued/...

22. (Continued)

- b. Why is ethanol added to the crushed leaves when making home made indicators?

(2 marks)

23. a. The relative atomic mass and atomic number of element X are 39 and 19 respectively.

Draw the atomic structure of element X.

(3 marks)

- b. State any two ways by which water can be polluted.

(2 marks)

24. a. Table 1 shows the effect of substances X, Y and Z on universal indicator.

Table 1

Substance	Effect on universal indicator
X	Red
Y	Blue
Z	No change

Continued/...

24. a. (Continued)

- (i) Which of the substances could be soap solution?

_____ (1 mark)

- (ii) Which substance could be found in the stomach?

_____ (1 mark)

- b. Explain why octanol ($C_8H_{17}OH$) has a higher boiling point than methanol (C_3H_7OH).

_____ (3 marks)

25. a. Table 2 shows melting and boiling points of different alkanes. Use it to answer questions that follow.

Table 2

Alkane	Melting point (°C)	Boiling point (°C)
Methane	-182.46	-162
Ethane	-183.26	-89
Propane	-187.6	-42
Butane	-138.36	-0.5
Pentane	-129.76	36

- (i) Which alkane has the lowest melting point?

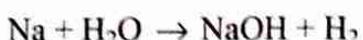
_____ (1 mark)

- (ii) Which alkane is a liquid at room temperature?

_____ (1 mark)

25. (Continued)

- b. Sodium (Na) reacts with water (H_2O) to produce sodium hydroxide ($NaOH$) and hydrogen gas (H_2) according to the following chemical equation.



Balance the equation.

(3 marks)

26. a. State any **two** branches of Chemistry.

(2 marks)

- b. Workout the percentage composition by mass of hydrogen in methane ($C = 12$ and $H = 1$).

(3 marks)

Continued/...

27. a. Explain why metals have high boiling and melting points.

(2 marks)

- b. How can purity of a substance be determined using melting and boiling points?

(3 marks)

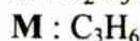
28. a. Explain why lithium of atomic number 3, is less reactive than potassium of atomic number 19.

(2 marks)

- b. Give any **three** reasons why potassium of atomic number 19 reacts faster than calcium of atomic number 20.

(3 marks)

29. Below are formulae for organic compounds labelled K, L and M



- a. Which compounds are hydrocarbons?

(2 marks)

Continued/...

29. (Continued)

- b. Name compound M.

(1 mark)

- c. Explain why compound L is soluble in water.

(2 marks)

30. a. State one method of separating mixtures.

(1 mark)

- b. Describe any two effects of hard water in everyday life.

(4 marks)

SECTION C (30 marks)

Answer all questions in this section in the spaces provided.

31. a. Describe an experiment that can be done to determine the pH of a solution using a universal indicator.

(4 marks)

Continued/...

31. (Continued)

- b. Describe an experiment that can be done to show that heating water results in a physical change while heating a piece of wood results in a chemical change.

(6 marks)

Continued/...

- 32.** With the aid of a diagram, describe how a mixture of sand and salt could be separated.

(10 marks)

Continued/...

- 33.** a. Explain how oil spills, on a lake, could affect the life of aquatic animals and plants.

(4 marks)

- b. A liquid is suspected to be either an alkane or alkene. Describe an experiment that can be done to identify the liquid.

(6 marks)
Continued/...

END OF QUESTION PAPER



EXAMINATION NO.: _____
THE MALAWI NATIONAL EXAMINATIONS BOARD
2021 JUNIOR CERTIFICATE EXAMINATION

BIOLOGY
SAMPLE PAPER
(100 marks)

Subject Number: J022
Time Allowed: 2 hours
8:00 – 10:00 am

Instructions

1. This paper contains 14 pages. Please check.
2. Before beginning to answer these questions fill in your **Examination Number** at the top of each paper.
3. The paper contains three sections: A, B and C. Answer **all** the questions in each section.
4. Section A should be answered by encircling the letter with the correct answer. Sections B and C should be answered in the spaces provided.
5. Hand in your completed question paper when time is called to stop writing.
6. In the table provided on this page, tick against the question number you have answered.

Question Number	Tick Qs 31 to 41 if answered	Do not write in these columns	
1-20			
31			
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Section A (20 marks)**Answer all questions in this section****Encircle the letter corresponding to the correct answer.**

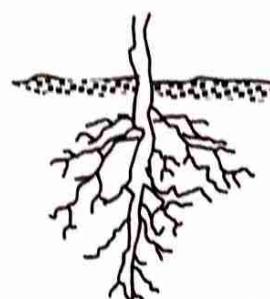
1. Which of the following is a characteristic of conifers?
 A. presence of cones
 B. presence of rhizomes
 C. presence of spores
 D. presence of thallus
2. Which of the following pairs of plants are flowering plants?
 A. liverworts and mosses
 B. bananas and reeds
 C. moulds and conifers
 D. algae and ferns

Figure 1 is a diagram of a leaf. Use it to answer Questions 3 and 4.

**Figure 1**

3. What type of leaf arrangement is shown in the diagram?
 A. digitate
 B. bipinnate
 C. pinnate
 D. trifoliate
4. What is the name of the part marked Z?
 A. leaf margin
 B. leaf blade
 C. leaf stalk
 D. leaf vein

5. **Figure 2** is a diagram of a root system.

**Figure 2**

What type of the root system is shown in the diagram?

- A. tap root
 - B. adventitious root
 - C. fibrous root
 - D. lateral root
6. Which of the following statements is **true** about cells?
 A. Animal cells have cell walls.
 B. Cells without chloroplasts can make food.
 C. Plant cells have large vacuoles.
 D. Nucleus and cytoplasm do not have membranes.

Continued/...

Figure 3 is a diagram of vertebrates. Use it to answer **Questions 7 and 8.**

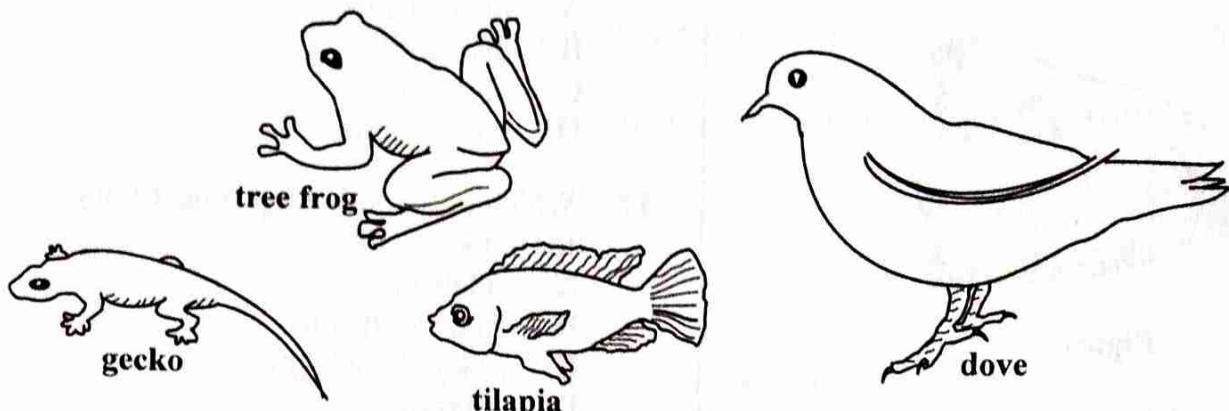


Figure 3

7. Which of the following characteristics could be used to classify the organisms?
- fins
 - legs
 - toes
 - size
- A. 1, 2 and 3
B. 1, 2 and 4
C. 1, 3 and 4
D. 2, 3 and 4
8. To which of the following groups of animals does a gecko belong?
- fish
 - mammal
 - reptile
 - amphibian

Table 1 shows germination percentage of 250 bean seeds which were planted in three different types of soil at the same time. Use it to answer **Questions 9 to 11.**

Table 1

Type of Soil	Germination (%)
Sand	70
Clay	80
Loam	90

9. How many seeds germinated in clay soil?

- 225
- 220
- 200
- 175

10. Identify the input variable in this investigation.

- time of planting
- type of seeds used
- germination percentage
- type of soil

11. Which of the following are control variables of the experiment?

- time of planting
- type of seeds used
- germination percentage
- type of soil

- 1 and 2
- 1 and 4
- 2 and 3
- 3 and 4

Continued/...

Figure 4 is a skull of a mammal. Use it to answer Questions 12 and 13.



Figure 4

12. Which of the following mammals have this kind of skull?
 - A. dogs
 - B. goats
 - C. lions
 - D. leopards

13. Which of the following food substances can **best** be digested by the mammal?
 - A. cellulose
 - B. fats
 - C. proteins
 - D. vitamins

14. A drop of food solution was placed on a white paper. What would be the result for the presence of lipids in the food?
 - A. blue black
 - B. brick red
 - C. translucent spot
 - D. purple

15. Which of the following lists of food nutrients are necessary for the prevention of anaemia?
 - A. proteins, carbohydrates and iron
 - B. proteins, carbohydrates and vitamin C
 - C. proteins, iron and vitamin C
 - D. carbohydrates, iron and vitamin C

16. What is the **major** cause of anaemia in children?
 - A. menstruation
 - B. diseases
 - C. bleeding
 - D. malnutrition

17. Which of the following is necessary for blood to clot?
 - A. platelets
 - B. red blood cells
 - C. white blood cells
 - D. plasma

18. Which blood vessel carries digested food from the small intestines to the liver?
 - A. hepatic portal vein
 - B. hepatic vein
 - C. hepatic artery
 - D. renal artery

19. Why do stomates normally open during the day?
 1. to allow sunlight to enter the leaf
 2. to allow water vapour to leave the leaf
 3. to allow carbon dioxide to enter the leaf
 4. to allow oxygen to leave the leaf

A. 1, 2 and 3	C. 1, 3 and 4
B. 1, 2 and 4	D. 2, 3 and 4

20. Which of the following is **not** a function of the liver?
 - A. changes toxic substances into harmless form
 - B. breaks down excess amino acids to urea
 - C. stores iron and vitamin D
 - D. regulates metabolic processes in the body

Section B (50 marks)

Answer all questions in this section in the spaces provided.

- 21. a. What is a “sample” in relation to population of organisms?**

(1 mark)

- b. Explain the importance of using a sample when working with large populations.**

(2 marks)

- 22. The following data shows a sample of masses of Form 1 students at a certain school. Use it to answer the questions that follow.**

45, 40, 43, 50, 39, 40, 42, 40, 39

- a. Find the median of the sample.**

(2 marks)

- b. Why would a weighing instrument of 25 kg as maximum mass not be suitable for collecting such data from students in this class?**

(1 mark)

23. a. Define the term "habitat".

(1 mark)

- b. **Figure 5** shows a food web. Use it to answer the questions that follow.

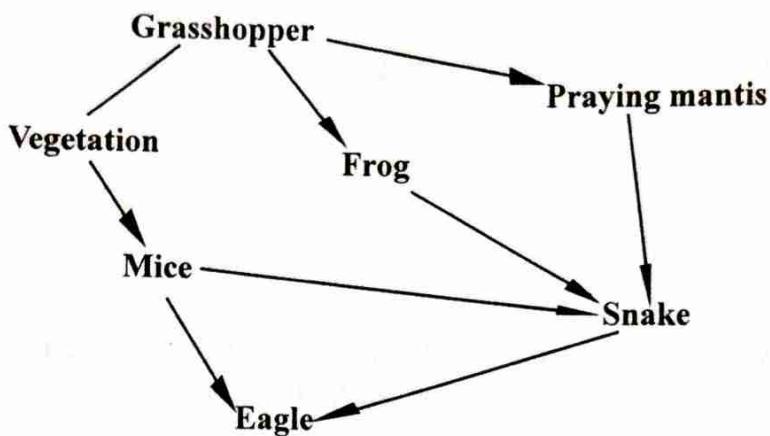


Figure 5

Construct any **one** food chain from the food web.

(3 marks)

- c. In a pond, fish feed on small vegetation, a snake feeds on the fish. Describe how energy flows from the sun to the snake as a second order consumer.

(5 marks)

24. a. Define the term "photosynthesis".

(1 mark)

- b. **Figure 6** shows an experiment on photosynthesis in which a leaf with green and non-green parts was used. Use it to answer the questions that follow.

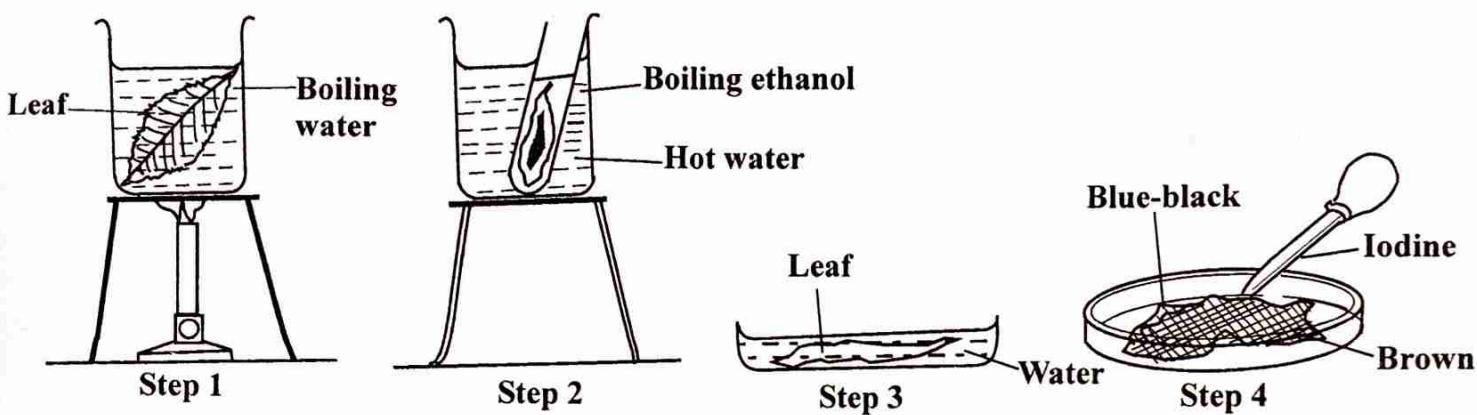


Figure 6

- (i) State **one** reason why **Step 2** was carried out.

(1 mark)

- (ii) From the experiment, a student concluded that chlorophyll is necessary for photosynthesis. Explain why this conclusion was correct.

(3 marks)

25. a. (i) Give any two causes of obesity.

(2 marks)

- (ii) State how each of the causes in 25a.(i) can be prevented.

(2 marks)

26. a. What are "sprains"?

(1 mark)

- b. State **two** ways of reducing swelling on a sprained joint.

(2 marks)

27. **Figure 7** shows parts of the human skeleton and associated muscles.
Use it to answer the questions that follow.

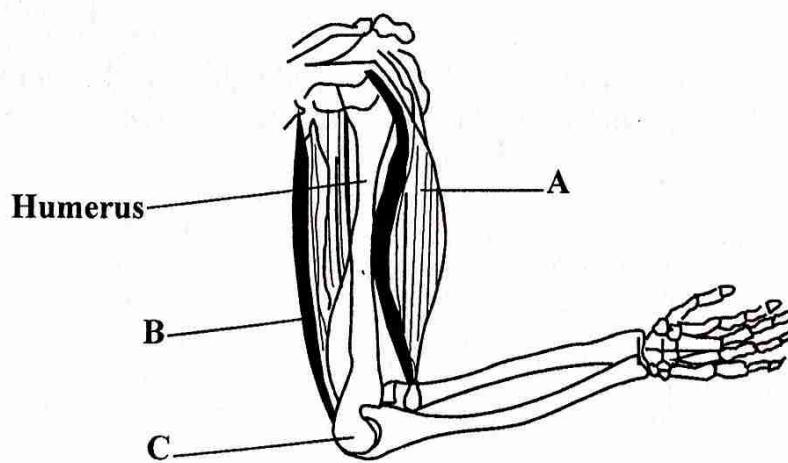


Figure 7

Continued/...

27. Continued

- a. Name the type of joint formed at C.

_____ (1 mark)

- b. Describe how muscles A and B work together to raise the lower arm.

(2 marks)

28. Figure 8 is a diagram showing components of blood. Use it to answer the questions that follow.

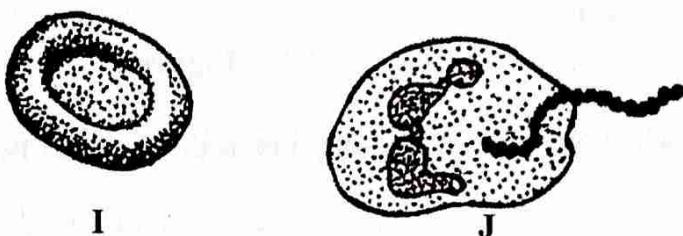


Figure 8

- a. Identify components I and J.

I _____ (1 mark)

J _____ (1 mark)

- b. (i) Name the process that is occurring in component J.

_____ (1 mark)

- (ii) Explain the importance of the process stated in 28b (i).

28. Continued

- c. Which mineral element is important for the formation of component I?

-
29. **Figure 9** is the diagram showing some micro-organisms. Use it to answer the questions that follow. (1 mark)

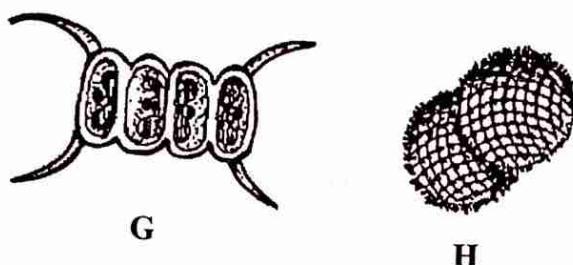


Figure 9

- a. To which group of micro-organisms do **G** and **H** belong?

(1 mark)

- b. (i) Give any **two** observable differences between **G** and **H**.

(2 marks)

- (ii) State the importance of **G** in its habitat.

(1 mark)

- 30.** Explain how each of the following pollutants would **negatively** affect living things in their environment.

a. smoke

(2 marks)

b. domestic waste

(2 marks)

c. pesticides

(2 marks)

d. untreated sewage

(2 marks)

e. industrial waste

(2 marks)

Continued/...

Answer all the questions in this section.

- 31. Describe an experiment that could be conducted to show the effect of nitrogen on maize seedlings. In your essay, include method, expected results and conclusion.**

(10 marks)

Continued/...

32. Suppose you are a nutrition officer in a village where people do not know the different food nutrients that could be included in their diet for good health. In an essay form, state any five food nutrients and for each one give its function in the body.

- 33.** Discuss any five functions of the liver. Write your answer in an essay form.

END OF QUESTION PAPER

NB: This paper contains 14 pages



2021 JUNIOR CERTIFICATE EXAMINATION

AGRICULTURE

SAMPLE PAPER

Subject Number: J012

Time Allowed: 2 hours

(100 marks)

Instructions

1. This paper contains 13 printed pages. Please check.
2. There are 33 questions in this paper.
3. The paper has **three** sections A, B and C. Answer **all** questions in all sections.
4. The maximum number of marks for the answers in sections B and C is indicated against each question.
5. Answer the questions in the spaces provided.
5. In the table provided on this page, tick against the question number you have answered.

Question Number	Tick if answered Qs 21 to 33	Do not write in these columns
1-20		
21		
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Section A (20 marks)**Answer all questions in this section.****Encircle the letter that represents the correct answer.**

1. Supply and demand in agricultural marketing are examples of
 A. marketing forces.
 B. marketing function.
 C. marketing channels.
 D. marketing research.
2. Which of the following is a breed of chickens?
 A. Leghorn
 B. Landrace
 C. Chinchilla
 D. Large white
3. What type of soil is suitable for the growing of root vegetables?
 A. silty clay
 B. clay loam
 C. sandy clay
 D. sandy loam
4. An "equilibrium price" is the
 A. selling price.
 B. highest price.
 C. lowest price.
 D. market price.
5. Which of the following is an example of an overhead irrigation system?
 A. drip
 B. flood
 C. furrow
 D. sprinkler
6. The **major** limitation of human power is that it is
 A. slow.
 B. scarce .
 C. inefficient.
 D. expensive.
7. Which of the following are ways of ensuring food security?
 1. growing crops that need less fertilizer
 2. checking population growth
 3. planting improved hybrid
 4. practicing extensive farming systems
 A. 1 and 2
 B. 1 and 4
 C. 2 and 3
 D. 3 and 4

Table 1 shows results of an experiment on different types of feeds given to lactating Fresian cows. Use it to answer questions 8 and 9.

Table 1

Cow	Type of feed	Average milk yield (litres/month)
1	fresh grass	11
2	soy meal	20
3	"madeya"	14
4	hay	10

Continued/...

8. Which of the following is the aim of the experiment?
- frequency of feeding on milk yield
 - different feeds on milk yield
 - milk production on different feeds
 - different breeds on milk yield
9. Which of the following was the **best** feed in the experiment?
- hay
 - madeya
 - soy meal
 - fresh grass
10. Which of the following order of crops is correct in a rotation?
- cabbage → onion → beans
→ carrot
 - beans → cabbage → onion
→ carrot
 - carrot → cabbage → onion
→ beans
 - onion → carrot → cabbage
→ beans
11. Which of the following is another name for a weed killer?
- insecticide
 - herbicide
 - pesticide
 - acaricide
12. To which group of vegetables does turnip belong?
- fruit
 - leaf
 - root
 - legume
13. Tapeworms are harmful to chickens mainly because they
- suck blood thereby causing anaemia.
 - eat the skin of small intestines.
 - eat the food in small intestines.
 - block the digestive system.
14. Which of the following farming practices help to conserve natural resources?
- deforestation
 - afforestation
 - re-afforestation
 - terracing
- 1, 2 and 3
 - 1, 2 and 4
 - 1, 3 and 4
 - 2, 3 and 4
15. Population growth and food supply in Malawi can be kept in balance by
- importing more food.
 - expanding farm holdings.
 - checking population growth.
 - reducing population growth.
16. If a farmer applied 150 kilograms of 23:21:0 + 4s fertilizer in his garden, how many kilograms of nitrogen were applied on this farm?
- 44
 - 34.5
 - 31.5
 - 6

Continued/...

17. Which of the following is a major factor of production?

- A. quota
- B. market
- C. labour
- D. climate

18. How does mulching the transplants help to conserve water?

- A. It controls soil erosion.
- B. It checks weeds on the bed.
- C. It provides nutrients when it decomposes.
- D. It regulates the soil temperature.

Figure 1 is a diagram of a livestock parasite. Use it to answer questions 19 and 20.

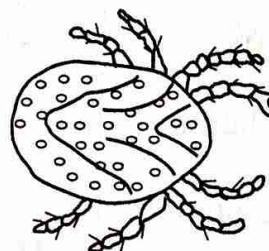


Figure 1

19. Identify the parasite.

- A. tick
- B. mice
- C. louse
- D. termite

20. Which of the following are effects of the parasite on livestock production?

- 1. sucking blood from the animal
- 2. causing animal diseases
- 3. transmitting disease causing organism
- 4. blocking food passages

- A. 1 and 2
- B. 1 and 3
- C. 2 and 4
- D. 3 and 4

SECTION B (50 marks)

Answer **all** the questions in the spaces provided.

21. A farmer observed the following signs of a disease in one of the pigs:

- blood in faces
- high body temperature
- difficulty in breathing
- weak legs

(i) Name the disease that attacked the pigs.

(ii) What organism caused the disease? (1 mark)

(iii) How can the disease be transmitted to other pigs? (1 mark)

(iv) Give **one** way of preventing the disease. (1 mark)

(1 mark)

22. A farmer growing cabbages kept the following record for the enterprise;

• bought seed	K1, 200.00
• bought fertilizer	20, 000.00
• bought insecticides	3, 000.00
• labour charge	10, 000.00
• price per head of cabbage	200.00

Continued/...

22. (Continued)

- a. Write down all the costs for the farmer.

(4 marks)

- b. Calculate the total income if the farmer produced 300 heads of cabbage and sold them all.

(2 marks)

- c. Calculate profit/loss for the farmer.

(2 marks)

Continued/...

23. Figure 2 is a diagram of farm equipment.



Figure 2

- (i) Name the farm equipment.

(1 mark)

- (ii) Name the source of power that can be used to operate the farm equipment.

(1 mark)

- (iii) Give any **two** reasons for observing safety measures when using the farm equipment.

(2 marks)

24. a. Mention any **two** constituents of soil.

(2 marks)

- b. State any **two** harmful effects of wind in livestock production.

(2 marks)

Continued/...

25. a. State any **one** way in which each of the following effects of deforestation would affect agricultural production.

- (i) silting of dams

(1 mark)

- (ii) lowering of water table.

(1 mark)

b. Give any **three** risks that can affect agricultural production.

(3 marks)

26. a. Give any **three** examples of good animal husbandry practices.

(3 marks)

b. State any **three** disadvantages of free range system of keeping chickens.

(3 marks)

27. a. Give any **two** breeds of rabbits.

(2 marks)

b. Name any **two** materials required for constructing a deep litter house for rabbits.

(2 marks)

Continued/...

28. a. A farmer borrowed K150, 000.00 to start a chicken business over a period of 3 years at the interest rate of 6%. What will be the annual interest to be paid on the loan?

(3 marks)

- b. Name the group of vegetables to which each of the following belongs:

(i) lettuce _____ (1 mark)

(ii) pepper _____ (1 mark)

29. a. Mention any **two** human activities which have contributed to the process of desertification.

(2 marks)

- b. Give any **three** factors which hinder effective contribution of women to food production.

(3 marks)

30. a. **Table 2** shows rates of fertilizer application to maize.

Table 2

Fertilizer	Rate/ha
Urea	100 kg
23.21:0 + 4s	200 kg
CAN	200 kg

- (i) Calculate the number of 50 kg bags of 23:21:0 + 4s fertilizer that will be needed for a hectare.

(2 marks)

- (ii) From the table, give **two** top dressing fertilizers.

(2 marks)

- b. Define the term “conservation” of natural resources.

(1 mark)

Continued/...

SECTION C (30 marks)

Answer **all** the questions in essay form on the spaces provided.

31. Give any **five** reasons for preparing land soon after harvesting crops.

(10 marks)

Continued/...

- 32.** Explain any five ways in which intensive farming can support the growing population in Malawi.

(10 marks)

Continued/...

- 33.** Explain any **five** ways in which essential natural resources for agricultural production can be depleted.

(10 marks)

END OF SAMPLE PAPER

NB: This paper contains 13 pages



EXAMINATION NO. 3
THE MALAWI NATIONAL EXAMINATIONS BOARD

2021 JUNIOR CERTIFICATE EXAMINATION

HISTORY
SAMPLE PAPER
(100 marks)

Subject Number: J081

Time Allowed: 2 hours

Instructions

1. This paper contains 12 pages. Please check.
2. This paper has **three** sections: **A**, **B** and **C**.
3. Follow instructions for each section carefully.
4. In the table provided on this page, **tick** against the question number you have answered.
5. Hand in your question paper to the invigilator when time is called to stop writing.
6. **IMPORTANT**

Make sure you write your **Examination Number** in the spaces provided on **all** the pages of this paper before you start answering the questions.

Question Number	Tick Qs 21-27 if answered	Do not write in these columns	
1-20			
21			
22			
23			
24			
25			
26			
27			

Section A (20 marks)

There are **twenty** questions in this section. Answer **all** questions by encircling the letter with the correct answer.

- | | |
|--|---|
| <p>1. The duty of the vizier in ancient Egypt was to</p> <ul style="list-style-type: none">A. make laws.B. settle disputes.C. assist the king.D. maintain courts. <p>2. Which of the following made Egyptians invent writing?</p> <ul style="list-style-type: none">A. tradeB. scienceC. irrigationD. architecture <p>3. Which of the following Maravi rulers entered in an alliance with the Portuguese?</p> <ul style="list-style-type: none">A. UndiB. LunduC. MasulaD. Chinkhole <p>4. Which of the following factors led to the decline of the Mwenemutapa Kingdom?</p> <ul style="list-style-type: none">1. introduction of Christianity2. the fall of the acropolis3. the invasion by the Ngoni4. the vastness of the kingdom <ul style="list-style-type: none">A. 1 and 2B. 1 and 3C. 3 and 4D. 2 and 4 | <p>5. Which of the following was the contribution of Sundiata Keita to the success of Mali?</p> <ul style="list-style-type: none">A. He introduced the use of burnt bricks.B. He reintroduced Islam in Mali.C. He unified the Malinke people.D. He made Mali famous in the Islamic world. <p>6. The ancient kingdom of Mali became powerful because of</p> <ul style="list-style-type: none">A. gold trade.B. salt trade.C. influence of Islam.D. fertile soils for farming. <p>7. Which of the following was one of the teachings of Jesus Christ?</p> <ul style="list-style-type: none">A. Roman emperors were wrong in killing people.B. Those who worshiped God will be healed miraculously.C. God chose the Jews to spread his message.D. Salvation was meant for the Jews and gentiles. |
|--|---|

Continued/...

- 8.** How did Nero treat Christians in his empire?
- A. He persecuted anyone preaching about Jesus.
 - B. He did not allow them to go to war.
 - C. He restricted their movements.
 - D. He constructed catacombs for their prayers.
- 9.** How did the Industrial Revolution benefit the agricultural sector?
- A. It led to improvements in crop yields.
 - B. It increased migration from villages to towns.
 - C. It encouraged construction of canals.
 - D. It led to the growth of industrial towns.
- 10.** Why was the invention of the Spinning Jenny important?
- A. It reduced accidents in weaving industries.
 - B. It reduced air pollution.
 - C. It boosted cultivation of cotton.
 - D. It made weaving fast.
- 11.** Which of the following is the result of the voyages made by Christopher Columbus?
- A. discovery of the sea route to India.
 - B. conquest of the Inca Empire.
 - C. the exploration of the St. Lawrence sea way.
 - D. discovery of the American continent.
- 12.** Which of the following European nations were the first to participate in slave trade?
- A. Spain and Portugal
 - B. Britain and Spain
 - C. Italy and Spain
 - D. Portugal and Italy
- 13.** Why did some kings in Europe oppose the Catholic Church during the Reformation period?
- A. They were against the luxurious lifestyles of some priests.
 - B. They were unhappy to see the poor suffering.
 - C. They did not accept the Church supremacy over their territories .
 - D. They were against the land ownership by the Church.
- 14.** The Trans Atlantic slave trade began as a result of the need for people to
- A. work in the army.
 - B. construct roads in colonies.
 - C. work in plantations.
 - D. work as house helps.
- 15.** What role did missionaries play in the abolition of slave trade?
- A. They opened new markets for manufactured goods.
 - B. They preached about the equality of people.
 - C. They conquered slave traders.
 - D. They passed laws forbidding slave trade.

Continued/...

16. Who represented the United Federal Party at the constitutional conference in London?
- A. T D T Banda
 - B. Sattar Sacraine
 - C. Harry Kanyama Chiume
 - D. Hastings Kamuzu Banda
17. Which of the following caused the resurrection of the Nyasaland African Congress?
- A. the return of Kamuzu Banda to Malawi
 - B. the new sponsorship given to the party
 - C. establishment of the federation of Rhodesia and Nyasaland
 - D. resolving tribalism issues in the party
18. Why did some African leaders favor a union of African states after independence?
- A. to protect raw materials
 - B. to protect minerals
 - C. to eliminate border clashes
 - D. to eliminate European dominance
19. Which of the larger regional blocks were formed ahead of the African Union?
- A. Monrovia and Addis Ababa
 - B. Senegalese and Casablanca
 - C. Casablanca and Monrovia
 - D. Addis Ababa and Senegalese
20. African leaders isolated South Africa from the OAU because of
- A. the presence of Europeans.
 - B. persistent crimes in mines.
 - C. the apartheid system of government.
 - D. persistent clashes between blacks and whites.

SECTION B (40 marks)

There are **five** questions in this section. Answer all the questions in the spaces provided.
Each question carries **10 marks**.

21. a. Define the term “pre history”.

(1 mark)

Continued/...

21. (Continued)

b. Give **one** example of the following sources of history.

i. oral

(1 mark)

ii. written

(1 mark)

iii. audio - visual

(1 mark)

c. State any **two** differences between primary and secondary sources of history.

(2 marks)

d. Explain any **two** disadvantages of written sources of history.

(4 marks)

22. a. Give any **two** sources of revenue in the kingdom of Mali.

(2 marks)

b. Describe any **two** ways in which Islam influenced the kingdom of Mali.

(4 marks)

Continued/...

22. (Continued)

- c. Explain the impact of Swahili Arab traders on the Buganda Kingdom. Give any **two** points.

(4 marks)**23. a. What role did each of the following play in the Maravi Kingdom?**

- i. Nyangu

(1 mark)

- ii. Makewana

(1 mark)

- b. Why did the Maravi people migrate from the Luba Lunda region? Give any **two** points.

(4 marks)

- c. Explain any **two** factors that led to the decline of the Mwenemutapa Kingdom.

(4 marks)

24. a. Define the term "Reformation".

(1 mark)

- b. Give any **three** points raised by Martin Luther in his "**96 thesis**".

(3 marks)

- c. Explain any **three** reasons for the success of the Reformation.

(6 marks)

25. a. Outline any **two** aims of the Nyasaland African Congress.

(2 marks)

- b. Explain the roles played by the following leaders of the Nyasaland African Congress:

- i. Charles Chinula

(2 marks)

Continued/...

25. b. (Continued)

ii. James Chinyama

(2 marks)

c. Describe any **two** factors which led to the formation of the Malawi Congress party.

(4 marks)

SECTION C (30 marks)

ESSAYS

There are **two** questions in this section. Answer **all** questions in an essay form in the spaces provided. Failure to answer the question in an essay form will lead to automatic loss of **four** marks. Each question carries **15 marks**.

26. a. Explain any **three** factors which led to the decline of the Mwenemutapa Kingdom. (6 marks)
- b. Describe any **four** factors which led to the rise of the Mwenemutapa Kingdom. (9 marks)
27. a. Explain any **four** factors which made Portugal take a leading role in the European voyages of exploration. (9 marks)
- b. Describe any **three** results of the European voyages of exploration. (6 marks)

Continued/...

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Page 9 of 12

Continued/...

EXAMINATION NO.: _____ **J081**
Page 10 of 12

Continued/...

EXAMINATION NO.: _____ **J081**
Page 11 of 12

Continued...

EXAMINATION NO.:

Page 12 of 12

J081

END OF SAMPLE PAPER

NB: This paper contains 12 pages.



EXAMINATION NO.: _____

THE MALAWI NATIONAL EXAMINATIONS BOARD

2021 JUNIOR CERTIFICATE EXAMINATION

BIBLE KNOWLEDGE (100 marks)

SAMPLE PAPER

Subject Number: J021

Time Allowed: 2 hours
8:30 – 10:30 am

Instructions

1. This paper contains 10 pages. Please check.
2. This paper has **three** sections, A, B and C.
3. For **Section A**, encircle the letter representing the right answer. **Sections B** and **C** should be answered in the spaces provided.
4. In the table provided on this page, **tick** against the question number you have answered.
5. Hand in your completed question paper when time is called to stop writing.
6. Write your **Examination Number** in the spaces provided on all the pages of this paper before you start answering the questions.

Question Number	Tick Question if answered	Do not write in these columns	
1-20			
21			
22			
23			
24			
25			
26			
27			

Section A (30 marks)

There are **twenty** questions in this section. Answer **all** questions by encircling the letter with the correct answer.

1. Which of the following is a reason for Abraham's movement from Canaan to Egypt?
 - A. looking for a wife for Isaac
 - B. fleeing from famine
 - C. separating himself from his relatives
 - D. running away from war

2. What was the sign of the covenant between God and Abram?
 - A. offering clean animals
 - B. keeping the Ten Commandments
 - C. dedicating all the first born sons to God
 - D. circumcising male children

3. How did God test Abraham's faith? By telling him to
 - A. send away Hagar.
 - B. offer Isaac as a sacrifice.
 - C. go to Egypt.
 - D. leave his hometown of Ur.

4. Where did Jacob flee to after stealing Esau's blessing?
 - A. Egypt
 - B. Shechem
 - C. Bethel
 - D. Haran

5. Why did the Egyptians ill-treat the Hebrews after Joseph's death?
 - A. The new king did not know about their history.
 - B. The Hebrews were hard workers.
 - C. The king feared the Hebrews might escape from Egypt.
 - D. The Hebrews became rich.

6. Why did Joseph's brothers dislike him?
 - A. His father loved him more than them.
 - B. He was the youngest in the family.
 - C. He used to boast about his dreams.
 - D. He was not allowed to do any work.

7. For which of the following did God punish Eli's family?
 - A. His sons slept with women working at the entrance of the sanctuary.
 - B. His sons insulted people who offered sacrifices.
 - C. His sons forced people to pay before offering sacrifices.
 - D. His sons were rude to the king.

8. God rejected Saul as king because he
 - A. wanted to kill David.
 - B. disappointed the people.
 - C. disobeyed God's command.
 - D. consulted a medium.

9. David became famous because he
 - A. married the king's daughter.
 - B. killed Goliath.
 - C. was Jonathan's friend.
 - D. commanded a big army.

10. Which of the following worked both as a judge and a prophet?
 - A. Samuel
 - B. Samson
 - C. Jephthah
 - D. Gideon

Continued/...

11. What does the name "Naomi" mean?
A. bitter
B. funny
C. pleasant
D. happy
12. What did the basket of fruit in Amos' vision signify?
A. death of Jeroboam
B. death of Amaziah
C. destruction of Israel
D. end of Amaziah's ministry
13. To which country were the people of Israel deported after Hosea's prophecy?
A. Babylonia
B. Syria
C. Egypt
D. Assyria
14. Who succeeded Ahaz as king of Judah?
A. Uzziah
B. Manasseh
C. Hezekiah
D. Josiah
15. Why was Isaiah comfortable to work with Ahaz's successor?
A. He was a great warrior.
B. He trusted in God.
C. He had fortified the city of Jerusalem.
D. He was Jeremiah's good friend.
16. How did Herod's plan to have the infant Jesus killed fail?
A. The priests told Joseph about the plan.
B. Herod's soldiers failed to locate the child.
C. Joseph was told about the plan in a dream.
D. The shepherds had warned Joseph about the plan.
17. Why did Jesus' parents settle in Nazareth instead of Judea?
A. They feared Herod's son who ruled Judea.
B. An angel instructed them not to go to Judea.
C. They wanted to be far away from Egypt.
D. Jesus' parents liked Nazareth more than Judea.
18. Why did Jesus say "Prophets are respected elsewhere except in their own hometown"?'
A. The people of Nazareth were unable to understand Him.
B. He was rejected by the people of Capernaum.
C. The people in Nazareth did not believe Him.
D. He was told not to visit His home town.
19. What led to the cure of the woman suffering from severe bleeding?
A. her prayer
B. her power
C. her patience
D. her faith

Continued/...

20. What assurance did Jesus give to His disciples in case they would be dragged to court during persecution?
- Jesus would come and speak on their behalf.
 - The Holy Spirit would tell them what to say.
 - God would send His angels to rescue them.
 - Other disciples would be their witnesses.

Section B (50 marks)

There are **five** questions in this section. Answer **all** questions in the spaces provided. Each question carries **10 marks**.

21. In **Exodus 19:1-20**, the Israelites camped at Mount Sinai after they had left Egypt.

- a. What did God command Moses to say to the Israelites? Give any **two** points.

(4 marks)

- b. What did the Israelites say to what God had told them through Moses?

(2 marks)

- c. Describe what happened at Mount Sinai on the third day of camping.

(4 marks)

22. In **1 Samuel 14:36-46**, Jonathan's life was saved by the people

- a. What advice did the priest give to Saul before he and his men attacked the Philistines?

(2 marks)

Continued/...

22. (Continued)

- b. State the method Saul proposed to use in order to find out who among them had committed a sin.

(2 marks)

- c. Relate the people's reaction when they learnt that Jonathan would be put to death.

(6 marks)

23. Mark 11:1-11, is about Jesus' triumphal entry into Jerusalem.

- a. Why did Jesus enter Jerusalem triumphantly?

(2 marks)

- b. State any **three** instructions Jesus gave to His two disciples while at Mount Olives.

(6 marks)

Continued/...

23. (Continued)

- c. How did the people who were following Jesus react when He entered Jerusalem?

(2 marks)

24. In **Mark 15:16-32**, Jesus was crucified.

- a. State any **two** ways in which the soldiers mocked Jesus.

(4 marks)

- b. What did the soldiers do after crucifying Jesus on the cross?

(2 marks)

- c. Why did the people passing by insult Jesus?

(2 marks)

25. a. Define the term “fasting”

(2 marks)

- b. Describe any **two** reasons why Christians fast today?

(4 marks)

Continued/...

25. **Continued**

- c. State any **two** situations where fasting is demanded from an individual for health reasons.

(4 marks)

Section C (30 marks)

Essays

There are **two** questions in this section. Answer **both** questions in essay form. Your essay should be written in the spaces provided on pages **8** and **9**. Each question carries **15 marks**.

26. Narrate how Jacob wrestled with a “man” at Peniel. (**Genesis 32:24-30**)

(15 marks)

27. Describe what happened when Jairus was told that his daughter was dead. (**Mark 5:36-43**).

(15 marks)

Continued/...

EXAMINATION NO.: _____
Page 8 of 9 **J021**

.Continued/...

END OF QUESTION PAPER

NB: This paper contains 9 pages.