

GRADE 10 ENDTERM 3 EXAMS

ALL SUBJECTS

(ARTS & SPORTS PATHWAY SET)

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ALL SUBJECTS TESTED.

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SERIES 1

For Marking Schemes

Mr Isaboke 0746-222-000 / 0753-222-000

MWALIMU CONSULTANCY

KENYA SENIOR SCHOOL EDUCATION**GRADE 10 END-TERM 3 EXAMS****SERIES 1 TEST – (ARTS & SPORTS PATHWAY)****FINE ARTS**

TIME: 2 HOURS

NAME.....

ASSESSMENT NO; SCHOOL;

CLASS..... SIGN.....

INSTRUCTIONS TO CANDIDATES

- a) Fill in your name, school name, your assessment number, date, the school code and signature in the spaces provided above.
- b) This paper consists of two sections: A and B.
- c) Answer all questions in section A and section B.
- d) Answer the questions in English.
- e) All answers **MUST** be written in the spaces provided in PAPER.
- f) Do **NOT** remove any page from this question paper.

FOR OFFICIAL USE ONLY (EXAMINER'S USE)

SECTION	SECTION A	SECTION B	% SCORE	EE1	EE2	ME1	ME2	AE1	AE2	BE1	BE2
SCORE RANGE	30 MARKS	50 MARKS		90-100	75-89	58-74	41-57	31-40	21-30	11-20	1-10
POINTS				8 POINTS	7 POINTS	6 POINTS	5 POINTS	4 POINTS	3 POINTS	2 POINTS	1 POINT
LEARNER'S TOTAL SCORE											

SECTION A: (30 marks)**Answer ALL questions in this section.****1. a) Define the term line as an element of art.****(1 mark)**

b) Name two types of lines commonly used in drawing.**(2 marks)****i.**

ii.

c) State two ways in which line can be used to create visual effects in an artwork. (2 marks)**i.**

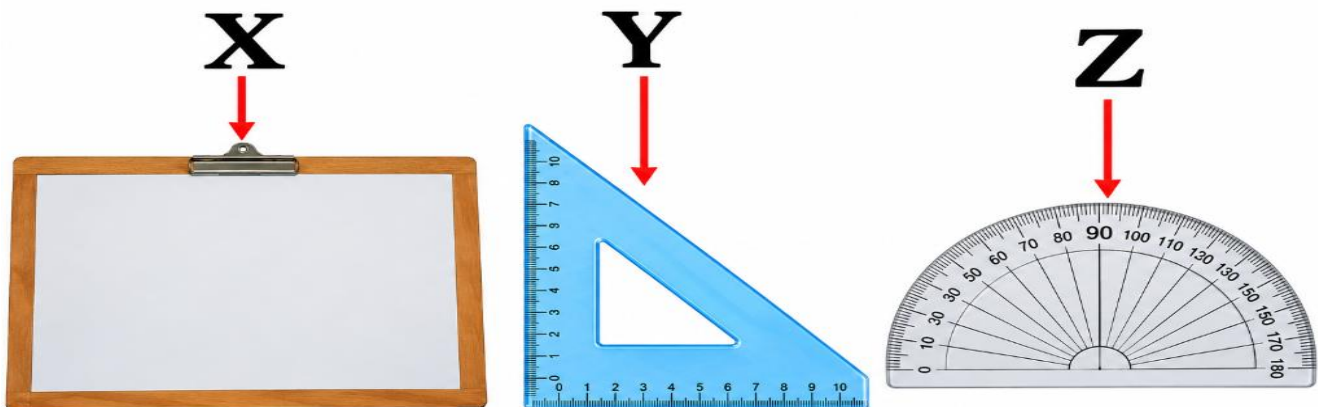
ii.

2. a) What is meant by the term balance in art and design?**(1 mark)**

b) Name two types of balance used in visual composition.**(2 marks)****i.**

ii.

c) Explain one way in which balance can improve an artwork.**(2 marks)**

3. Study the tools represented below and answer the questions that follow.

a) Identify **any three drawing tools** that may be represented in the diagram. (3 marks)

X: _____

Y: _____

Z: _____

b) State **one use of each tool identified** in (a). (2 marks)

TOOL	USE
X	
Y	
Z	

4. a) What is a primary colour? (1 mark)

b) Name the **three primary colours**. (3 marks)

- i. _____
- ii. _____
- iii. _____

c) State **one secondary colour** produced by mixing two primary colours. (1 mark)

5. a) Distinguish between two-dimensional art **and** three-dimensional art. (2 marks)

b) Give **one example of a two-dimensional artwork**. (1 mark)

c) Give **two examples of three-dimensional artworks**. (2 marks)

- i. _____
- ii. _____

6. A learner produces a painting depicting a busy market scene.

a) State **one aspect you would consider when analysing the composition** of the painting.

(1 mark)

b) Give **two questions you could ask when interpreting the painting.** (2 marks)

- i. _____
- ii. _____

c) State **two qualities of a good art critique.** (2 marks)

- i. _____
- ii. _____

SECTION B: 50 MARKS

Answer ALL questions in this section.

7. You are provided with a simple still-life arrangement consisting of a cup, a bottle and a fruit.

a) State **three things you should observe before beginning the drawing.** (3 marks)

- i. _____
- ii. _____
- iii. _____

b) Explain **two ways of achieving accurate proportion** in an observational drawing. (2 marks)

- i. _____
- ii. _____

c) Name **three shading techniques** that can be used to create tonal effects. (3 marks)

- i. _____
- ii. _____
- iii. _____

d) State **two ways in which shading can make an object appear three-dimensional.** (2 marks)

- i. _____
- ii. _____

8. Study the composition below.



The composition contains lines, shapes, a central form and repeated forms.

a) Identify **four elements of art** that could be observed in the composition. (4 marks)

- i. _____
- ii. _____
- iii. _____
- iv. _____

b) Explain **two ways repetition** can be used effectively in an artwork. (2 marks)

- i. _____
- ii. _____

c) Explain how **contrast** could be introduced into this composition. (2 marks)

- i. _____
- ii. _____

d) State **two factors** that an artist should consider when arranging objects within a **composition**. (2 marks)

- i. _____
- ii. _____

9. An artist wants to produce a painting of a Kenyan landscape showing vegetation, soil, sky and distant hills.

a) Explain the difference between **warm colours** and **cool colours**. (2 marks)

b) Give **two examples of warm colours** and **two examples of cool colours**. (4 marks)

- i. _____
- ii. _____

c) Explain how an artist can use **colour intensity** to create emphasis in a landscape painting. (2 marks)

- i. _____

- ii. _____

d) State **two ways of creating a sense of distance using colour**. (2 marks)

- i. _____
- ii. _____

10. A Grade 10 learner has been asked to create a mixed-media artwork using paper, fabric, paint and natural materials.

a) What is meant by **mixed-media art**? (2 marks)

b) Name **three materials** that can be incorporated into a mixed-media artwork. (3 marks)

- i. _____
- ii. _____
- iii. _____

c) Describe **two techniques** that could be used when combining different materials in the artwork.

(2 marks)

i. _____

ii. _____

d) State **three safety precautions** the learner should observe while working in the art room. **(3 mks)**

i. _____

ii. _____

iii. _____

11. A cultural exhibition is organised to showcase Kenyan artistic traditions from different communities.

a) State **three purposes of art in Kenyan communities.** **(3 marks)**

i. _____

ii. _____

iii. _____

b) Name **three forms of traditional or contemporary Kenyan visual art.** **(3 marks)**

i. _____

ii. _____

iii. _____

c) Explain **two ways in which artists can preserve cultural heritage through their work.**

(2 marks)

i. _____

ii. _____

d) State **two ways in which visual artists can contribute to the economy.** **(2 marks)**

i. _____

ii. _____

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KENYA SENIOR SCHOOL EDUCATION**GRADE 10 END-TERM 3 EXAMS****SERIES 1 TEST – (ARTS & SPORTS PATHWAY)****MUSIC AND DANCE**

TIME: 2 HOURS

NAME.....

ASSESSMENT NO; SCHOOL;

CLASS..... SIGN.....

INSTRUCTIONS TO CANDIDATES

1. Write your details as required above.
2. This paper consists of two sections: A and B.
3. Answer all questions in section A and section B.
4. Answer the questions in English.
5. All answers **MUST** be written in the spaces provided in the paper.
6. Do **NOT** remove any page from this question paper.

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LEARNER'S TOTAL SCORE											

SECTION A (30 MARKS)

Answer ALL questions in this section.

1.

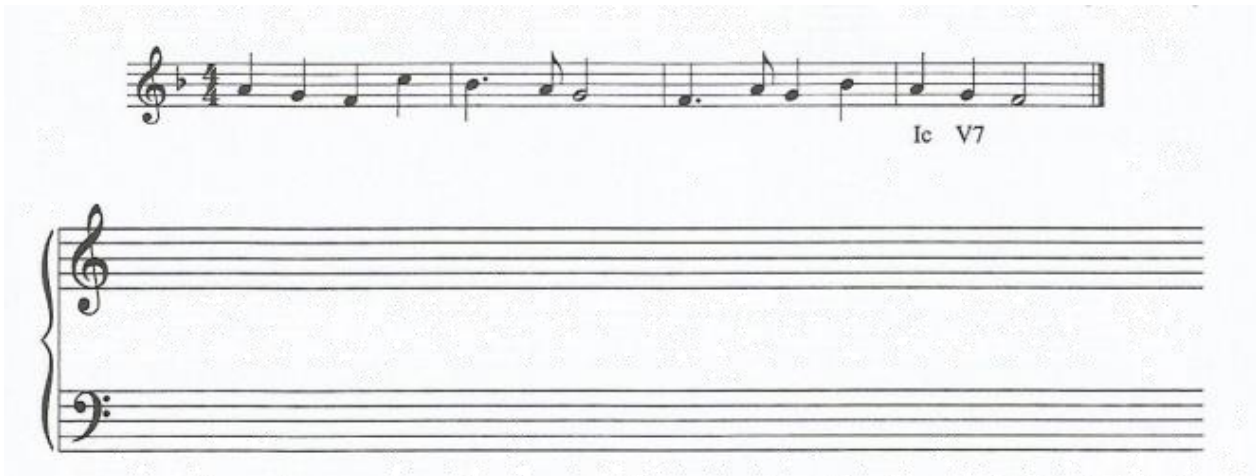
- a. Starting with the given opening, compose a 16-bar melody for voice. Modulate to the relative minor and return to the tonic. Incorporate a syncopated rhythm. (5 marks)



- b. Using staff notation, compose a melody setting it to the lyrics below: (5 marks)

Janga hili la Korona, el yetu kavala Menyang,
'Metupasa tuungane, tulishinde hili janga

2. Harmonise the melody below for SATB. Choose appropriate chords from I, II IV, and VI (5 marks)



3. a) Define the term **transposition** as used in music. (2 marks)

- b) Give one reason why a musical passage may be transposed. (1 mark)

- c) A melody is written in **C major**. To which key will it move if it is transposed **up by a major second**? (1 mark)

- d) State one factor that must remain consistent when transposing a melody. (1 mark)

4. Read the text below.

Our land is beautiful,

Let us care for it.

- a) State **two factors** that a composer should consider when setting words to a melody. (2 marks)

i. _____

ii. _____

- b) Explain why the natural accent of words should be considered when setting text to music.

(2 marks)

5. a) What is meant by **two-part harmony**? (2 marks)

- b) Name **two consonant intervals** that may be used when creating a second vocal part. (2 marks)

i. _____

ii. _____

- c) State one important consideration when writing a second part to a melody. (1 mark)

6. a) What is music notation software? (1 mark)

- b) State **two uses** of music notation software in music creation. (2 marks)

i. _____

ii. _____

7. a) Define **choreography**.

(1 mark)

b) State **two elements** that a choreographer considers when developing a dance. (2 marks)

i. _____

ii. _____

SECTION B: 50 MARKS

Answer **ALL** questions.

8. Read the description below.

A group of learners performs a traditional Kenyan song during a cultural day. One singer introduces a phrase and the rest of the group responds. Drums, shakers and other indigenous instruments accompany the singers. The performers use movement, facial expression and coordinated body actions.

a) Identify the performance technique described in the passage.

(1 mark)

b) Explain the term **call-and-response**.

(2 marks)

c) State **three occasions** on which Kenyan folk songs may be performed.

(3 marks)

i. _____

ii. _____

iii. _____

d) State **two characteristics** of Kenyan folk songs.

(2 marks)

i. _____

ii. _____

e) Explain one way through which Kenyan folk songs help preserve cultural heritage. (2 marks)

9. a) What is a **solo song**?

(2 marks)

b) Name **two examples of Western-style solo vocal forms or genres** studied at this level.

(2 marks)

i. _____

ii. _____

c) State **two characteristics** of an effective Western-style solo vocal performance. (2 marks)

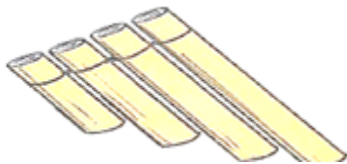
i. _____

ii. _____

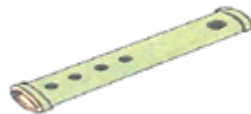
d) Explain the importance of diction in solo singing.

(2 marks)

10. Study the musical instruments below.



E



F



G

a) Identify **the** indigenous instrument above.

i. E: _____ (1 mark)

ii. F: _____ (1 mark)

iii. G: _____ (1 mark)

b) State the **four major Hornbostel-Sachs classifications** commonly used to classify musical instruments. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

c) State one factor that determines the sound produced by an indigenous musical instrument.

(1 mark)

11. Study the instrument illustrations.



X



Y



Z

a) Identify the name of the Western instrument represented.

i. X: _____ (1 mark)

ii. Y: _____ (1 mark)

iii. Z: _____ (1 mark)

b) Name **families of Western musical instruments**

(2 marks)

i. _____

ii. _____

c) Explain the difference between a **solo instrumental performance** and an **ensemble performance**.

(2 marks)

12. a) Define **contemporary dance** in the Kenyan context.

(2 marks)

b) State **three elements** of contemporary dance.

(3 marks)

i. _____

ii. _____

iii. _____

c) Explain **two principles of choreography** that can be applied when creating a contemporary dance. (2 marks)

i. _____

ii. _____

d) State **two considerations when selecting costumes** for a contemporary dance performance. (2 marks)

i. _____

ii. _____

13. a) Name the two historical periods of Western classical music studied under this topic. (2 marks)

i. _____

ii. _____

b) State **one characteristic of Medieval music**. (1 mark)

c) State **one characteristic of Renaissance music**. (1 mark)

14. a) Explain **two ways** in which music and dance contribute to the identity of a community. (2 marks)

i. _____

ii. _____

b) State **two ways** in which technology can be used to promote music and dance. (2 marks)

i. _____

ii. _____

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KENYA SENIOR SCHOOL EDUCATION**GRADE 10 END-TERM 3 EXAMS****SERIES 1 TEST – (ARTS & SPORTS PATHWAY)****SPORTS AND RECREATION**

TIME: 2 HOURS

NAME.....

ASSESSMENT NO; SCHOOL;

CLASS..... SIGN.....

INSTRUCTIONS TO CANDIDATES

1. Write your full name in the space provided above.
2. Indicate your school, stream, admission number, and date clearly.
3. This paper has **TWO sections: A and B**.
4. Attempt **ALL questions** in both sections.
5. Show all working clearly where necessary.
6. Write all answers in the spaces provided.
7. Do NOT remove any page from this paper.

FOR OFFICIAL USE ONLY (EXAMINER'S USE)

SECTION	SECTION A	SECTION B	% SCORE	EE1	EE2	ME1	ME2	AE1	AE2	BE1	BE2
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POINTS				8 POINTS	7 POINTS	6 POINTS	5 POINTS	4 POINTS	3 POINTS	2 POINTS	1 POINT
LEARNER'S TOTAL SCORE											

SECTION A (30 MARKS)

Answer ALL questions in this section.

1. During a warm-up session, a coach asks learners to perform different stretching exercises.

(a) Define **flexibility** as used in sports and recreation.

(1 mark)

(b) State **two benefits of flexibility** to a sports performer.

(2 marks)

i. _____

ii. _____

2. Study the two stretching positions shown below.

A



B



(a) Identify the type of stretch represented by:

A: _____ (1 mark)

B: _____ (1 mark)

(b) State **one appropriate time** when each type of stretching may be performed.

A: _____ (½ mark)

B: _____ (½ mark)

3. A learner performs repeated press-ups during a fitness assessment.

(a) Distinguish between **muscular strength** and **muscular endurance**. (2 marks)

(b) State **one activity** that can be used to develop muscular endurance. (1 mark)

4. A school athletics team is preparing for a long-distance race.

(a) What is meant by **cardiovascular endurance**? (1 mark)

(b) Give **two activities** that can improve cardiovascular endurance. (2 marks)

i. _____

ii. _____

5. Study the illustrations below.



X



Y

(a) Identify the posture in **Figure X**. (1 mark)

(b) State two reasons why correct posture is important during sports performance. (2 marks)

i. _____

ii. _____

6. A group of learners spends their free time participating in hiking, dancing, swimming and nature walks.

(a) Define recreation. (1 mark)

(b) State two ways in which recreation promotes wellness. (2 marks)

i. _____

ii. _____

7. During a football training session, a learner twists the ankle and develops pain and swelling.

(a) Identify the likely injury. (1 mark)

(b) State two immediate measures that should be taken to manage the injury. (2 marks)

i. _____

ii. _____

8. A school has limited funds for sports equipment. The coach decides to improvise some training equipment using locally available materials.

(a) Give one example of sports equipment that can be improvised. (1 mark)

(b) State two factors that should be considered when improvising sports equipment.

(2 marks)

i. _____

ii. _____

9. During an inter-class athletics competition, a learner demonstrates exceptional speed, coordination and competitive determination.

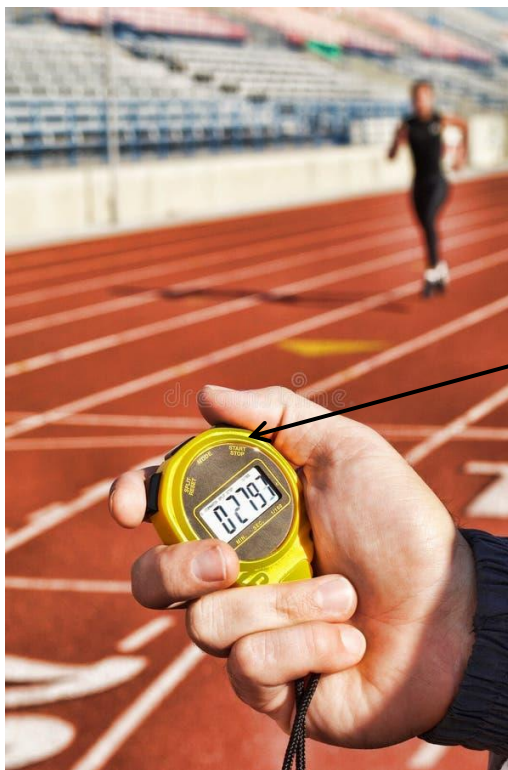
(a) What is meant by **talent identification** in sports? (1 mark)

(b) State **two characteristics** that a coach may consider when identifying sporting talent. (2 marks)

i. _____

ii. _____

10. Study the photograph below.



Z

(a) Identify the item represented by Z (1 mark)

(b) State **two responsibilities** of a technical or meet official in athletics. (2 marks)

i. _____

ii. _____

SECTION B: 50 MARKS

Answer ALL questions in this section.

11. A Grade 10 athletics team has been preparing for the annual school championships. The coach observes that some learners become tired quickly, others have poor flexibility, while some demonstrate poor body posture during training.

(a) Explain three factors that may affect flexibility in an individual. (3 marks)

- i. _____

- ii. _____

- iii. _____

(b) Explain three benefits of muscular strength and endurance to a sports performer.

(3 marks)

- i. _____

- ii. _____

- iii. _____

(c) Describe two ways in which cardiovascular endurance can be developed through training.

(2 marks)

- i. _____

- ii. _____

(d) Explain two consequences of poor posture during sports performance. (2 marks)

- i. _____

- ii. _____

12. A school coach is designing a warm-up and cool-down programme for learners participating in athletics.

(a) Explain the difference between **static stretching and dynamic stretching** under the following aspects: **(3 marks)**

Aspect	Static Stretching	Dynamic Stretching
Movement		
Holding position		
Typical application		

(b) Explain **three ways in which appropriate stretching may contribute to sports performance and injury prevention.** **(3 marks)**

i. _____

ii. _____

iii. _____

(c) A learner performs vigorous stretching without warming up and develops muscle discomfort. Explain **two precautions that should be observed when performing stretching exercises.** **2 mks**

i. _____

ii. _____

(d) Explain **two reasons why a cool-down is important after vigorous physical activity.** **(2 mks)**

i. _____

ii. _____

13. A community youth group organises weekend recreational activities including hiking, cycling, swimming, dancing and outdoor games.

(a) Explain **three physical benefits of regular recreational activities.** **(3 marks)**

i. _____

ii. _____

iii. _____

(b) Explain three social or psychological benefits of recreation. (3 marks)

i. _____

ii. _____

iii. _____

(c) During a recreational football match, a player sustains an injury.

Explain two principles that should guide the initial management of a sports injury. (2 marks)

i. _____

ii. _____

(d) State two ways through which sports injuries can be prevented. (2 marks)

i. _____

ii. _____

14. You have been appointed assistant coach of your school's athletics team. The head coach asks you to help prepare learners for competition.

(a) State three qualities of an effective sports coach. (3 marks)

i. _____

ii. _____

iii. _____

(b) Explain three reasons why technical and tactical skills are important in athletics. (3 mks)

i. _____

ii. _____

iii. _____

(c) Describe two methods that may be used by a coach to detect sporting talent among learners. (2 marks)

i. _____

ii. _____

(d) Give **two examples of locally available materials that may be used to improvise athletics training equipment.** (2 marks)

i. _____

ii. _____

15. Your school is hosting an inter-school athletics competition. Several officials have been appointed to ensure that the event is conducted fairly and safely.

(a) Explain **three principles of effective sports officiating.** (3 marks)

i. _____

ii. _____

iii. _____

(b) Differentiate between a **technical official** and a **meet official** in athletics. (2 marks)

(c) State **three responsibilities of officials during an athletics competition.** (3 marks)

i. _____

ii. _____

iii. _____

(d) Explain **two reasons why impartiality is important in sports officiating.** (2 marks)

i. _____

ii. _____

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KENYA SENIOR SCHOOL EDUCATION**GRADE 10 END-TERM 3 EXAMS****SERIES 1 TEST – (ARTS & SPORTS PATHWAY)****THEATRE AND FILM**

TIME: 2 HOURS

NAME.....

ASSESSMENT NO; SCHOOL;

CLASS..... SIGN.....

INSTRUCTIONS TO CANDIDATES

- Write all the details as required above.
- This paper consists of two sections: A and B.
- Answer all questions in section A and section B.
- Answer the questions in English.
- All answers **MUST** be written in the spaces provided in the paper.
- Do NOT remove any page from this question paper.

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LEARNER'S TOTAL SCORE											

SECTION A (30 MARKS)**Answer ALL questions in this section.**

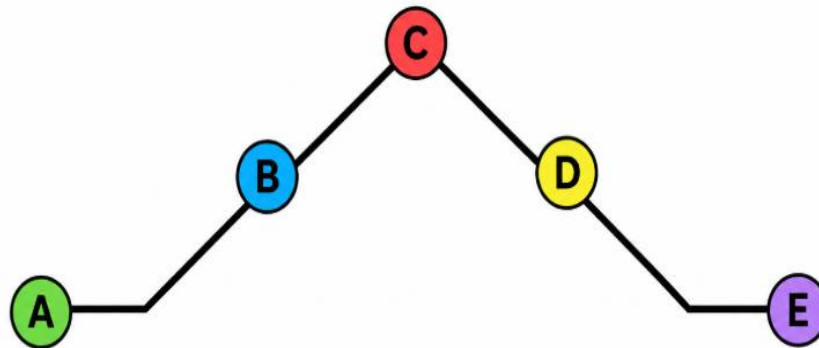
1. a) Define the term **playwriting**. (1 mark)

- b) State **two elements of a play** that a playwright should consider when developing a script. (2 marks)

- i. _____
- ii. _____

- c) Explain how a well-developed **character** contributes to the success of a play. (2 marks)

2. Study the simplified dramatic plot structure below.



- a) Identify the dramatic element represented by A. _____ (1 mark)
- b) Identify the dramatic element represented by B. _____ (1 mark)
- c) Identify the dramatic element represented by C. _____ (1 mark)
- d) Identify the dramatic element represented by D. _____ (1 mark)
- e) Identify the dramatic element represented by E. _____ (1 mark)

3. Study the stage arrangement below.



a) Identify **two components of theatre design** represented in the diagram. (2 marks)

- i. _____
- ii. _____

b) State **one purpose of a backdrop** in a theatrical production. (1 mark)

c) Give **two considerations** that should be made when selecting props for a stage production. (2 marks)

- i. _____
- ii. _____

4. a) What is **acting** in theatre? (1 mark)

b) State **two reasons why an actor should undertake warm-up exercises before a performance.** (2 marks)

- i. _____
- ii. _____

c) Explain **two ways** through which an actor can communicate a character's emotions to an audience. **(2 marks)**

- i. _____

- ii. _____

5. Read the following extract:

*The river once sang beside our homes,
Now plastic covers where the water flows.
We look away, but tomorrow asks,
Who will clean what today destroys?*

a) Identify the **theme** communicated in the extract. **(1 mark)**

b) State **one contemporary issue** addressed in the extract. **(1 mark)**

c) Identify **one performance technique** that a spoken-word artist could use to make the extract more effective. **(1 mark)**

d) Explain **two ways** in which a performer could use voice to communicate the message effectively. **(2 marks)**

- i. _____

- ii. _____

6. A school drama club is preparing a play about the effects of cyberbullying among teenagers.

a) State **one responsibility of the director** during the production. **(1 mark)**

b) Give **two factors** the director should consider when guiding actors during rehearsals. **(2 marks)**

- i. _____
- ii. _____

c) Explain **two ways** through which the director can ensure that the play communicates its intended message to the audience. **(2 marks)**

- i. _____

- ii. _____

SECTION B: 50 MARKS

Answer ALL questions in this section.

g) You have been selected as the playwright for a school production addressing the problem of **substance abuse among young people**.

a) Suggest a suitable **title** for the play. **(1 mark)**

b) State the **main theme** of the proposed play. **(1 mark)**

c) Identify **two major characters** who could appear in the play and state the role of each character. **(2 marks)**

- i. _____
- ii. _____

d) Develop a brief **story outline** showing how the play could begin, develop and end. **(3 marks)**

[illegible]

i. _____

ii. _____

c) Explain how **facial expression** can communicate the character's emotional state. (2 marks)

- i. _____

- ii. _____

d) Explain **two ways** the actor could use movement and body posture to make the performance convincing. (2 marks)

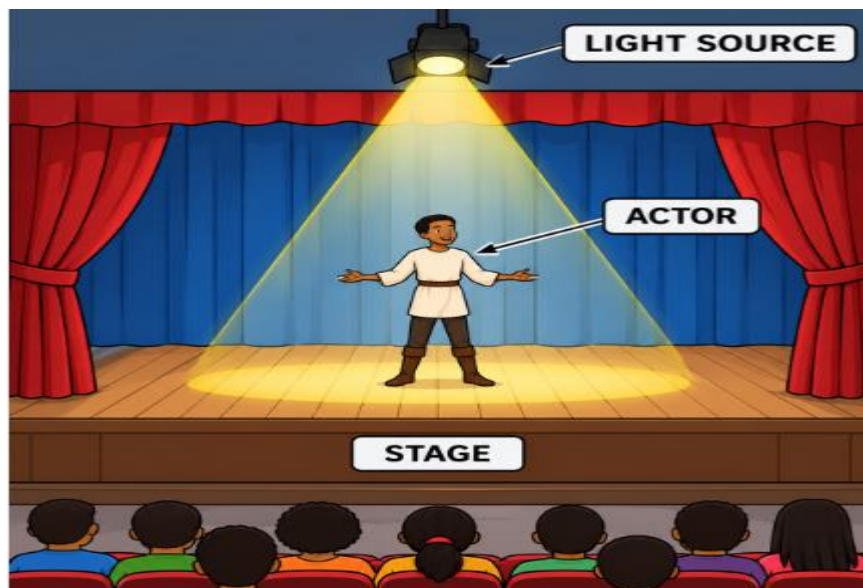
- i. _____

- ii. _____

e) State **two qualities of a disciplined actor** that would help the learner perform the role effectively. (2 marks)

- i. _____
- ii. _____

i) Study the simplified lighting arrangement below.



a) Identify the **general production element** represented by the diagram. (1 mark)

b) State **two purposes of lighting in theatre**. (2 marks)

- i. _____
- ii. _____

c) Name **two theatre lighting techniques** that can be used in a stage production. **(2 marks)**

- i. _____
- ii. _____

d) Explain the difference between **spot lighting** and **flood lighting**. **(2 marks)**

<i>Spot lighting</i>	<i>Flood lighting</i>

e) Name **three pieces of sound equipment** that may be used during a theatrical production.

(3 marks)

- i. _____
- ii. _____
- iii. _____

j) A youth group wants to produce a short film highlighting the importance of environmental conservation in the local community.

a) State **two stages of film production** that should be undertaken before filming begins. **(2 marks)**

- i. _____
- ii. _____

b) Explain the importance of **scriptwriting** in film production. **(2 marks)**

- i. _____
- ii. _____

c) State **two factors to consider when selecting a filming location**. **(2 marks)**

- i. _____
- ii. _____

d) Give **two functions of a camera operator/cinematographer** during film production. **(2 marks)**

- i. _____
- ii. _____

e) Explain **two ways technology can improve the quality of a film production.** (2 marks)

i. _____

ii. _____

k) Your school theatre club has been asked to prepare a **10-minute community theatre performance** on the problem of irresponsible disposal of waste.

a) Identify **one target audience** for the performance. _____ (1 mark)

b) State the **main message** you would communicate to the audience. (1 mark)

c) Suggest **two suitable production resources** that could be used in the performance. (2 marks)

i. _____

ii. _____

d) Describe **two roles** that members of the production team would perform. (2 marks)

i. _____

ii. _____

e) Explain **two ways of using locally available materials** to reduce the cost of production. (2 mks)

i. _____

ii. _____

f) Suggest **two ways of evaluating whether the performance achieved its intended purpose.**

(2 marks)

i. _____

ii. _____

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KENYA SENIOR SCHOOL EDUCATION**GRADE 10 END-TERM 3 EXAMS****SERIES 1 TEST – (ARTS & SPORTS PATHWAY)****INFORMATION COMMUNICATION TECHNOLOGY**

TIME: 2 HOURS

NAME.....

ASSESSMENT NO; SCHOOL;

CLASS..... SIGN.....

INSTRUCTIONS TO CANDIDATES

7. Write your details as required in the spaces provided above.

8. This paper consists of two sections: A and B.

9. Answer all questions in section A and section B.

10. Answer the questions in English.

11. All answers **MUST** be written in the spaces provided in the paper.12. Do **NOT** remove any page from this question paper.**FOR OFFICIAL USE ONLY (EXAMINER'S USE)**

SECTION	SECTION A	SECTION B	% SCORE	EE1	EE2	ME1	ME2	AE1	AE2	BE1	BE2
SCORE RANGE	30 MARKS	50 MARKS		90-100	75-89	58-74	41-57	31-40	21-30	11-20	1-10
POINTS				8 POINTS	7 POINTS	6 POINTS	5 POINTS	4 POINTS	3 POINTS	2 POINTS	1 POINT
LEARNER'S TOTAL SCORE											

SECTION A (35 MARKS)**Answer ALL questions in this section.**

1. a) Define the term **Information and Communication Technology (ICT)**. (1 mark)

- b) State **two technologies used for communication** in modern society. (2 marks)

i. _____

ii. _____

- c) Explain **two ways in which ICT has improved communication in schools**. (2 marks)

i. _____

ii. _____

2. Study the simplified ICT infrastructure arrangement below.



a) Identify the component labelled A.

(1 mark)

b) Identify **any two end-user devices** represented by E–J.

(2 marks)

E: _____

F: _____

G: _____

H: _____

I: _____

J: _____

c) State **one function of device C** used to connect computers in an organisation. (1 mark)

d) Give **one reason why an organisation requires ICT infrastructure**.

(1 mark)

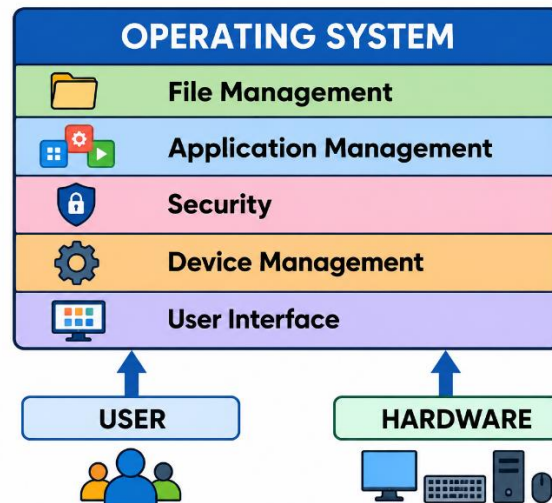
3. ICT is widely used in different sectors of society.

a) Name **three application areas of ICT**. (3 marks)

b) Explain **one benefit of ICT in the health sector**. (1 mark)

c) State **one way ICT can be used to support environmental conservation**. (1 mark)

4. Study the diagram below.



a) What is an **operating system**?

(1 mark)

b) Name **two operating systems** used in digital devices.

(2 marks)

i. _____

ii. _____

c) State **two functions of an operating system**.

(2 marks)

i. _____

ii. _____

5. A learner has created the following files on a computer:

ICT Notes.docx

ICT Presentation.pptx

ICT Poster.pub

ICT Assignment.docx

a) Suggest a suitable **folder name** in which the four files could be stored.

(1 mark)

b) State **two operations that can be performed on a file or folder** using an operating system.

(2 marks)

c) Give **two security measures** that can be used to protect files stored on a computer. **(2 marks)**

i.

ii.

6. a) Explain the meaning of **digital citizenship**. **(1 mark)**

b) State **two responsible behaviours** expected from a digital citizen. **(2 marks)**

i.

ii.

c) A learner receives a message from an unknown person requesting a password and personal information.

i) State **one danger associated with responding to the message**. **(1 mark)**

ii) Give **one appropriate action the learner should take**. **(1 mark)**

SECTION B: 50 MARKS

Answer ALL questions in this section.

7. A school has asked a learner to prepare a one-page notice using a word processor.

The notice should contain:

DIGITAL SKILLS CLUB

All Grade 10 learners are invited to join the Digital Skills Club. The club will help learners develop skills in word processing, presentations, desktop publishing, Internet research and digital communication.

a) Name **four word-processing features** that could be used to improve the appearance of the notice. **(4 marks)**

- i. _____
- ii. _____
- iii. _____
- iv. _____

b) Explain the difference between **editing** and **formatting** a document. **(2 marks)**

- _____
- _____
- _____
- _____
- _____

c) State **two advantages of using a word processor instead of preparing the notice manually**. **(2 marks)**

- i. _____
- ii. _____

d) Describe **two methods of correcting errors** in a word-processing document. **(2 marks)**

- i. _____
- ii. _____

8. A learner has been assigned to prepare a presentation entitled:

“Responsible Use of ICT in Schools”

The presentation is expected to contain **six slides**.

a) Suggest suitable content for **any four slides** of the presentation. **(4 marks)**

i. _____

ii. _____

iii. _____

iv. _____

b) State **three principles of designing an effective presentation**. **(3 marks)**

i. _____

ii. _____

iii. _____

c) Explain why excessive use of **animations and transition effects** may reduce the effectiveness of a presentation.

(1 mark)

d) Give **two ways of making a presentation accessible and easy to understand**. **(2 marks)**

i. _____

ii. _____

9. The school wants to produce a poster advertising an **ICT Innovation Exhibition**.

The poster should contain:

- School name
- Exhibition title
- Date
- Venue
- Activities
- Contact information

a) Define **desktop publishing**. (1 mark)

b) Name **two types of publications** that can be produced using desktop publishing software. (2 marks)

i.

ii.

c) State **three design principles** that should be considered when creating the poster. (3 marks)

i.

ii.

iii.

d) Explain **two advantages of using desktop publishing software** when preparing school publications. (2 marks)

i.

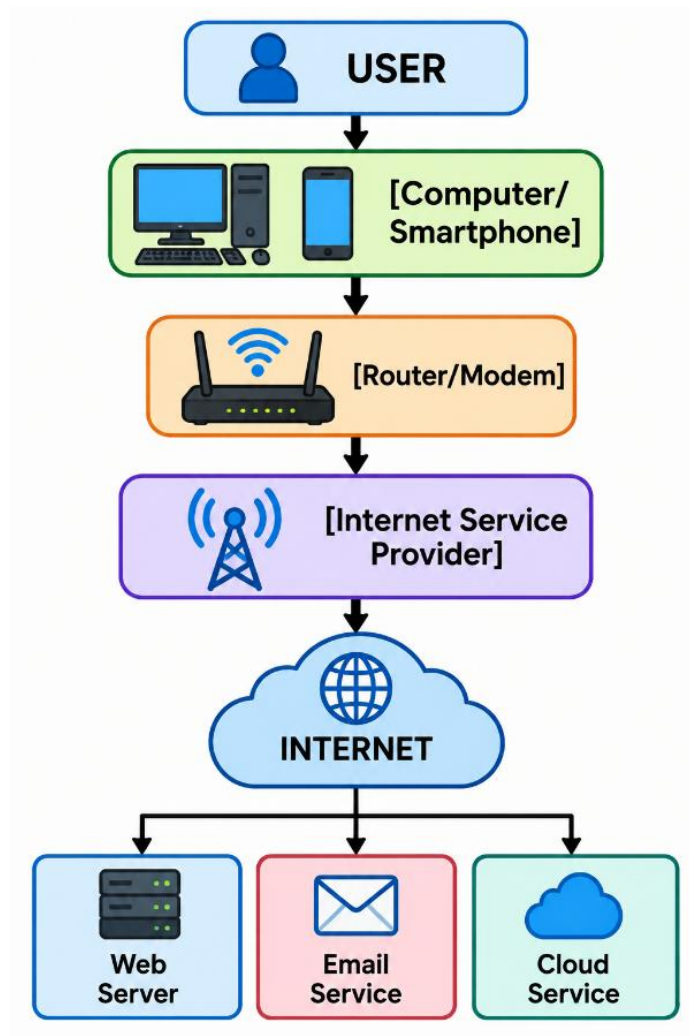
ii.

e) State **two pieces of information that should appear prominently on the poster**. (2 marks)

i.

ii.

10. Study the Internet communication process below.



a) What is the **Internet**? (1 mark)

b) Identify **two devices** that a user may use to access the Internet. (2 marks)

- i. _____
- ii. _____

c) State **three services or uses of the Internet**. (3 marks)

- i. _____
- ii. _____
- iii. _____

d) Explain **two factors** that should be considered when selecting an Internet connection for a school. (2 marks)

i. _____

ii. _____

e) State **two responsible practices** when using Internet search engines. (2 marks)

i. _____

ii. _____

11. A school plans to use digital communication technologies to connect teachers, learners and parents.

a) Name **four digital communication technologies or platforms** that can be used for communication and collaboration. (4 marks)

i. _____
ii. _____

iii. _____
iv. _____

b) Distinguish between **synchronous** and **asynchronous** digital communication. (2 marks)

c) Give **two advantages of digital communication in education**. (2 marks)

i. _____
ii. _____

d) State **two measures** that can help ensure safe and responsible digital communication. (2 marks)

i. _____
ii. _____

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KENYA SENIOR SCHOOL EDUCATION**GRADE 10 END-TERM 3 EXAMS****SERIES 1 TEST – (ARTS & SPORTS PATHWAY)****COMMUNITY SERVICE LEARNING**

TIME: 2 HOURS

NAME.....

ASSESSMENT NO; SCHOOL;

CLASS..... SIGN.....

INSTRUCTIONS TO CANDIDATES

1. Write your name in the spaces provided above.
2. Write the name of your school and your stream.
3. Write your admission number and the date.
4. This paper consists of TWO sections: A and B.
5. Answer ALL questions in both sections.
6. Answer all questions in English.
7. All answers MUST be written in the spaces provided.
8. Do NOT remove any page from this paper.

FOR OFFICIAL USE ONLY (EXAMINER'S USE)

SECTION	SECTION A	SECTION B	% SCORE	EE1	EE2	ME1	ME2	AE1	AE2	BE1	BE2
SCORE RANGE	30 MARKS	50 MARKS		90-100	75-89	58-74	41-57	31-40	21-30	11-20	1-10
POINTS				8 POINTS	7 POINTS	6 POINTS	5 POINTS	4 POINTS	3 POINTS	2 POINTS	1 POINT
LEARNER'S TOTAL SCORE											

SECTION A (30 MARKS)**Answer ALL questions in this section.**

1. a) Define the term Community Service Learning (CSL). (2 marks)

b) State **two characteristics** of effective Community Service Learning. (2 marks)

i. _____

ii. _____

2.

A group of Grade 10 learners visits their community and discovers that the area around a public water point is dirty and poorly maintained.

a) Identify **one community need** presented in the situation. (1 mark)

b) State **two possible causes** of the problem. (2 marks)

i. _____

ii. _____

c) Suggest **one appropriate solution** that learners could undertake through Community Service Learning. (1 mark)

3. a) Name two values **that learners should demonstrate when participating in community service**. (2 marks)

i. _____

ii. _____

b) Explain how **one** of the values named above contributes to successful community service.

(2 marks)

4. a) State two groups of people **who can participate in a community service project**. (2 marks)

i. _____

ii. _____

b) Give **two reasons** why involving community members is important in a service project.

(2 marks)

i. _____

ii. _____

5.

During a community clean-up exercise, some learners disagree about how the work should be divided.

a) State **one appropriate way** of resolving the disagreement.

(1 mark)

b) Give **two benefits of teamwork** in Community Service Learning.

(2 marks)

i. _____

ii. _____

6. a) What is meant by reflection in Community Service Learning?

(2 marks)

b) State **two things a learner can gain from reflecting on a community service activity**.

(2 marks)

i. _____

ii. _____

7.

a) State **two responsibilities of a learner** participating in a community service project. (2 marks)

i. _____

ii. _____

b) Why should learners observe safety precautions during community service activities? **(1 mark)**

SECTION B: 50 MARKS

Answer ALL questions in this section.

8. Your school administration has asked Grade 10 learners to identify a problem affecting the surrounding community and develop a Community Service Learning project to address it.

a) State **two methods** learners could use to identify community needs. **(2 marks)**

i. _____

ii. _____

b) Give **three factors** learners should consider when selecting a community problem to address.

(3 marks)

i. _____

ii. _____

iii. _____

c) Outline **four steps** that learners should follow when planning the project. **(4 marks)**

i. _____

ii. _____

iii. _____

iv. _____

d) State **one reason** why setting clear objectives is important in a community project. **(1 mark)**

9. A Grade 10 class notices that plastic waste has accumulated around a nearby market. The waste blocks drainage channels and creates an unpleasant environment. The learners decide to work with traders and community leaders to address the problem.

a) Identify **two problems** resulting from the situation. **(2 marks)**

i. _____

ii. _____

b) Suggest **three activities** the learners could undertake to address the problem. **(3 marks)**

i. _____

ii. _____

iii. _____

c) Identify **two stakeholders** who should be involved in the project. **(2 marks)**

i. _____

ii. _____

d) Explain **two ways** in which the project could benefit the community. **(2 marks)**

i. _____

ii. _____

e) State **one indicator** that could be used to determine whether the project has been successful.

(1 mark)

10. During a school-community project, the project leader assigns most of the work to a few learners. Other learners complain that the distribution of responsibilities is unfair. An argument develops among members of the group.

a) Identify **two qualities of an effective CSL project leader**. **(2 marks)**

i. _____

ii. _____

b) Explain **two ways** the leader could ensure fair distribution of responsibilities. **(2 marks)**

i. _____

ii. _____

c) State **three appropriate steps** that could be used to resolve the conflict. **(3 marks)**

i. _____

ii. _____

iii. _____

d) Explain **two ways** teamwork can improve the success of a community project. **(2 marks)**

i. _____

ii. _____

e) State **one consequence** of failing to resolve conflicts in a community project. **(1 mark)**

11. A group of learners is conducting a Community Service Learning project in a nearby village. During the project, one learner takes photographs of community members and posts them on social media without seeking their permission.

a) Identify **one ethical issue** in the situation. **(1 mark)**

b) Explain **two reasons** why learners should respect the privacy and dignity of community members. **(2 marks)**

i. _____

ii. _____

c) State **three values** that should guide learners when interacting with community members. **(3 marks)**

i. _____

ii. _____

iii. _____

d) Suggest **two appropriate actions** the learner should take after posting the photographs without permission. **(2 marks)**

i. _____

ii. _____

e) Explain **two ways** Community Service Learning promotes responsible citizenship. **(2 marks)**

i. _____

ii. _____

12.

Your class has completed a Community Service Learning project aimed at improving sanitation in the local community.

a) State **three ways** learners can evaluate the success of the project. **(3 marks)**

i. _____

ii. _____

iii. _____

b) Give **two examples of evidence** that could be collected to show that the project achieved its objectives. **(2 marks)**

i. _____

ii. _____

c) Explain **two lessons** learners may gain from participating in the project. **(2 marks)**

i. _____

ii. _____

d) State **one challenge** that learners may have experienced during the project. **(1 mark)**

e) Suggest **one way** of addressing the challenge identified in (d). **(1 mark)**

f) Why is it important for learners to share the results of a completed community project with relevant stakeholders? **(1 mark)**

KENYA SENIOR SCHOOL EDUCATION**GRADE 10 END-TERM 3 EXAMS****SERIES 1 TEST – (ARTS & SPORTS PATHWAY)****ENGLISH**

TIME: 2 HOURS

NAME.....

ASSESSMENT NO; SCHOOL;

CLASS..... SIGN.....

INSTRUCTIONS TO CANDIDATES

1. Answer **ALL** questions.
2. Write your answers clearly in the spaces provided.
3. Read each question carefully before answering.
4. Give complete and grammatically correct answers where required.
5. This examination consists of **TWO** sections:
 - **Section A: Reading and Comprehension – 30 marks**
 - **Section B: Grammar and Functional Writing – 50 marks**

FOR OFFICIAL USE ONLY (EXAMINER'S USE)

SECTION	A	B	C	D	E	% SCORE	EE1	EE2	ME1	ME2	AE1	AE2	BE1	BE2
SCORE RANGE	10 MARKS	20 MARKS	25 MARKS	5 MARKS	20 MARKS		90- 100	75-89	58-74	41-57	31-40	21-30	11-20	1-10
POINTS							8 POINTS	7 POINTS	6 POINTS	5 POINTS	4 POINTS	3 POINTS	2 POINTS	1 POINT
LEARNER'S TOTAL SCORE														

SECTION A: 30 MARKS

TASK 1: COMPREHENSION – 10 MARKS

Read the passage below and answer the questions that follow.

When learners at **Bomet Senior School** realised that the school kitchen spent a considerable amount of money buying vegetables, they began discussing ways of reducing the cost. The Agriculture Club proposed establishing a school farm where vegetables could be grown for use in the kitchen. The idea was introduced by **Janet**, the club's vice-chairperson, during one of their weekly meetings. She explained that the school had unused land behind the laboratory that could be converted into a productive garden. The agriculture teacher, **Mr. Rono**, encouraged the learners to study the soil and determine which crops would perform well.

After conducting a simple investigation, the learners selected vegetables such as kale, spinach and onions. They prepared the land, constructed a small compost pit and planted the crops. They also collected dry leaves and other biodegradable materials to make organic manure.

However, the project soon faced difficulties. There was insufficient water during a particularly dry period, and some seedlings withered. Rather than abandoning the project, the learners discussed possible solutions. They decided to collect water from the laboratory roof and use it carefully on the garden.

The school administration supported their efforts by providing a few watering cans. Parents also donated seeds, while the learners continued making compost from available organic materials.

After several weeks, the garden began producing vegetables. The kitchen used some of the harvest, while the learners sold the surplus to teachers. The money earned was used to purchase additional seeds and gardening tools.

The project eventually became more than a source of vegetables. It taught the learners that careful planning, innovation and teamwork can transform an unused resource into something valuable.

Questions

1. Why did the learners decide to establish a school farm? (2 marks)

2. Name **TWO** vegetables grown by the learners. (2 marks)

(i) _____

(ii) _____

3. What problem affected the project during the dry period? (1 mark)

4. How did the learners respond to the shortage of water?

(1 mark)

5. State **TWO** ways in which the school community supported the project.

(2 marks)

(i) _____

(ii) _____

6. What important lesson did the learners gain from the project?

(2 marks)

TASK 2: CLOZE TEST – 10 MARKS

Read the passage below and fill in each blank with the most appropriate word.

THE PEER MENTORING PROGRAMME

At **Kisii Senior School**, a group of learners established a peer mentoring programme to help students who were experiencing difficulties in adapting to senior school life.

The programme was started (1) _____ a group of learners who believed that students could support one another. Before becoming mentors, the learners received guidance from the school counsellor (2) _____ effective communication and confidentiality.

During the first meeting, the mentors explained (3) _____ the programme would operate. They assured the younger learners that their concerns would be treated (4) _____ respect and sensitivity.

One learner admitted that she was struggling to manage her time. Her mentor helped her prepare a timetable (5) _____ included time for study, rest and recreation. Another learner needed help (6) _____ he was finding it difficult to balance schoolwork with responsibilities at home.

The mentors did not make decisions for their fellow learners. Instead, they encouraged them to think carefully (7) _____ possible solutions. When a problem required professional assistance, the mentors referred the learner (8) _____ the appropriate teacher or counsellor.

After several weeks, teachers noticed that many participants had become more confident. The mentors themselves also developed better listening and leadership skills. The programme therefore benefited both those who received support (9) _____ those who provided it.

The school administration encouraged the learners to continue with the programme because cooperation and empathy are qualities (10) _____ can strengthen a school community.

TASK 3: COMPREHENSION – 10 MARKS

Read the passage below and answer the questions that follow.

THE SCHOOL DEBATE

The auditorium at **Kakamega Senior School** was unusually quiet as members of the Debate Club prepared for an inter-school competition. Their topic was whether schools should completely ban the use of mobile phones by learners.

The debate chairperson, **Samuel**, reminded everyone that the purpose of the discussion was not simply to defeat the opposing side. Instead, learners were expected to present convincing arguments while respecting different opinions.

Faith, who supported the ban, argued that unrestricted phone use could distract learners from their studies. She gave examples of students who spent long periods on social media during study time.

Daniel, however, disagreed. He argued that mobile phones could be useful educational tools when used responsibly. According to him, learners could access electronic books, educational videos and online research materials.

As the discussion became more intense, some members began interrupting one another. Samuel raised his hand and waited until the room became quiet. He reminded the members to allow speakers to finish before responding.

The team eventually agreed that the issue was more complicated than simply banning or allowing phones. They proposed that schools should establish clear rules governing when and how mobile phones could be used for educational purposes.

Before the meeting ended, Samuel asked each member to write down one argument supporting the team's final position. He explained that a strong debate depended not only on speaking confidently but also on listening, evaluating evidence and modifying one's position when necessary.

Questions

1. What was the topic of the debate? **(1 mark)**

2. Give **TWO** arguments presented in the debate. **(2 marks)**

3. Why did Samuel raise his hand during the discussion? **(1 mark)**

4. What compromise did the team eventually reach? (2 marks)

5. Explain in your own words the meaning of the statement:

“A strong debate depended not only on speaking confidently but also on listening.” (2 marks)

6. Identify **TWO** skills demonstrated by Samuel as the chairperson. (2 marks)

SECTION B: 50 MARKS

TASK 4: GRAMMAR IN USE – 30 MARKS

Answer **ALL** questions in this task.

1. Identify the word class of each underlined word.

The **successful** learners **quickly** completed the task **before** sunset.

- a) successful – _____ (1 mark)
- b) quickly – _____ (1 mark)
- c) before – _____ (1 mark)

2. Use the word “light” in two different sentences, using it as indicated.

a) As a noun: (1 mark)

b) As an adjective: (1 mark)

3. Fill in the blank with an appropriate pronoun.

Jane and Asha completed the project by _____. (1 mark)

4. Identify the type of phrase underlined.

The learners completed the assignment with remarkable accuracy. (1 mark)

5. Rewrite the sentence by replacing the underlined words with an appropriate adverb.

The speaker answered the question in a polite manner. (1 mark)

6. Construct one meaningful sentence containing an adjectival phrase. (1 mark)

7. Identify the grammatical function of the underlined phrase.

The committee selected the most responsible learner as its representative. (1 mark)

8. Arrange the following words to form a meaningful noun phrase.

Kenyan / talented / three / young / musicians (1 mark)

9. Identify the type of clause in bold.

The learners continued working **although they were extremely tired**. (1 mark)

10. Complete the sentence using an appropriate subordinate clause.

The teacher postponed the practical lesson _____. (1 mark)

11. Join the two sentences using a suitable relative pronoun.

The girl won the essay competition. She represented our school. **(1 mark)**

12. Identify the independent clause in the sentence below.

If the weather improves, the agricultural club will resume its activities. **(1 mark)**

13. Rewrite the sentence by changing the dependent clause into a phrase without changing the meaning.

When the lesson ended, the learners left the classroom. **(1 mark)**

14. State whether the following sentence is simple, compound or complex.

The learners completed the experiment, but they forgot to record the results. **(1 mark)**

15. Join the two sentences using an appropriate conjunction.

The road was flooded. The students arrived at school on time. **(1 mark)**

16. Rewrite the sentence in the passive voice.

The science club members planted fifty trees. **(1 mark)**

17. Rewrite the sentence in the active voice.

The school garden was maintained by the agriculture club. **(1 mark)**

18. Rewrite the sentence in reported speech.

Amina said, "I have completed my assignment." **(1 mark)**

19. Rewrite the sentence beginning with the word given.

The learners would have won the competition if they had prepared adequately. **(1 mark)**

Begin:

Had _____

20. Rewrite the sentence using too...to without changing its meaning.

The box was so heavy that the learner could not lift it. **(1 mark)**

Begin:

The box was

21. Add a suitable question tag.

You attended the environmental seminar, _____? **(1 mark)**

22. Correct the grammatical errors in the following sentences.

a) The list of participants **were** submitted yesterday. **(1 mark)**

b) Neither the students nor the teacher **know** the answer. (1 mark)

23. Rewrite the following sentence using correct punctuation and capitalisation.

the principal asked jane where she had placed the laboratory keys (2 marks)

24. Correct the spelling errors in the sentence below.

The learners showed great **determination** and **responsiblity** during the campaign. (2 marks)

TASK 5: FUNCTIONAL WRITING – 20 MARKS

Your school has announced that it will select **two Grade 10 learners to represent the school in a county-level Young Innovators Exhibition.**

The exhibition will provide learners with an opportunity to present practical solutions to community problems.

You are interested in participating because you have developed an idea for a simple project that can help your community.

You are **Kevin Kiptoo**, a Grade 10 learner at **Fiti Senior School**.

TASK

Write a **formal application letter to the Principal of Fiti Senior School** requesting to be selected as one of the school's representatives.

Your letter should include:

- your address;
- the date;
- the recipient's address;
- an appropriate salutation;
- a clear subject/reference;
- the purpose of the letter;
- the innovation/project you wish to present;

(20 marks)

[illegible]

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KENYA SENIOR SCHOOL EDUCATION**GRADE 10 END-TERM 3 EXAMS****SERIES 1 TEST – (ARTS & SPORTS PATHWAY)****KISWAHILI**

TIME: 2 HOURS

NAME.....

ASSESSMENT NO; SCHOOL;

CLASS..... SIGN.....

MAELEKEZO KWA WANAFUNZI

1. Andika jina lako katika nafasi ulizopewa hapo juu.
2. Andika jina la shule yako na darasa lako katika nafasi ulizopewa.
3. Andika nambari yako ya usajili na tarehe ya tathmini katika nafasi ulizopewa.
4. Karatasi hii ina sehemu mbili: A na B.
5. Jibu maswali yote katika sehemu A na sehemu B.
6. Jibu maswali kwa lugha ya Kiswahili.
7. Majibu yote LAZIMA yaandikwe katika nafasi ulizopewa kwenye karatasi hii.
8. USIONDOE ukurasa wowote kutoka kwenye karatasi hii ya maswali.

ALAMA ZA MWANAFUNZI

SEHEMU	SEHEMU A	SEHEMU B	ASILIMIA (%)	KUZ 1	KUZ 2	KUF 1	KUF 2	KUK 1	KUK 2	CHI 1	CHI2
KIWANGO CHA ALAMA	ALAMA 30	ALAMA 50		90- 100	75-89	58-74	41-57	31-40	21-30	11-20	1-10
POINTI			8 POINTI	7 POINTI	6 POINTI	5 POINTI	4 POINTI	3 POINTI	2 POINTI	1 POINTI	
JUMLA YA ALAMA ZA MWANAFUNZI											

SEHEMU A: ALAMA 50**KAZI YA 1: UFAHAMU Alama 10****1. Soma kifungu hiki kisha ujibu maswali yanayofuata.**

Teknolojia imekuwa sehemu muhimu ya maisha ya binadamu katika karne ya ishirini na moja. Katika sekta ya elimu, matumizi ya vifaa vya kidijitali yamebadilisha namna wanafunzi wanavyopata na kutumia maarifa. Hapo awali, mwanafunzi alitegemea zaidi vitabu vya kiada na maelezo ya mwalimu darasani. Leo hii, mwanafunzi anaweza kupata taarifa kutoka kwenye maktaba za kidijitali, tovuti za kielimu, video na programu mbalimbali za kujifunzia.

Matumizi ya teknolojia shuleni yana manufaa mengi. Kwanza, humwezesha mwanafunzi kupata taarifa kwa haraka. Pili, huleta mazingira ya kujifunza yenye kuvutia kwa kutumia picha, sauti, video na michoro. Tatu, teknolojia huwawezesha wanafunzi kushirikiana katika miradi hata kama hawako sehemu moja. Kwa mfano, wanafunzi wanaweza kutumia majukwaa ya mtandao kufanya utafiti na kuandaa kazi za pamoja.

Hata hivyo, teknolojia inapaswa kutumiwa kwa uwajibikaji. Baadhi ya wanafunzi hutumia vifaa vya kidijitali kwa shughuli zisizohusiana na masomo. Wengine huamini kila taarifa wanayopata kwenye mtandao bila kuichunguza. Hali hii inaweza kusababisha upotoshaji wa taarifa. Kwa hiyo, mwanafunzi anapaswa kuwa na uwezo wa kutathmini chanzo cha taarifa kabla ya kuitumia.

Walimu na wazazi pia wana jukumu la kuwaongoza vijana katika matumizi salama ya teknolojia. Wanafunzi wanapaswa kufundishwa namna ya kulinda taarifa zao binafsi, kuheshimu haki za wengine na kutumia mitandao kwa mawasiliano yenye kujenga. Teknolojia ikitumiwa vizuri, inaweza kuwa chombo muhimu cha kukuza ubunifu, utafiti na maendeleo ya kielimu.

Maswali

a) Taja **manufaa mawili** ya teknolojia katika elimu yaliyotajwa katika kifungu. **(2 alama)**

b) Eleza kwa nini mwanafunzi hapaswi kuamini kila taarifa anayopata kwenye mtandao. **(2 alama)**

c) Taja njia **mbili** ambazo wanafunzi wanaweza kutumia teknolojia kushirikiana katika masomo.

(2 alama)

d) Eleza majukumu mawili ya walimu na wazazi katika matumizi ya teknolojia. (2 alama)

e) Pendekeza njia mbili ambazo mwanafunzi anaweza kutumia ili kuwa mtumiaji mwajibikaji wa teknolojia. (2 alama)

KAZI YA 2: Alama 10

2. Jaza nafasi zilizoachwa wazi kwa neno linalofaa ili kukamilisha kifungu hiki.

UHIFADHI WA MAZINGIRA

Mazingira ni sehemu muhimu ya maisha ya binadamu. Kila mtu ana wajibu wa _____ (a) mazingira yake ili yaendeleo kuwa safi na salama. Misitu hutupatia hewa safi na husaidia _____ (b) mmomonyoko wa udongo. Kwa sababu hiyo, ni muhimu kupanda _____ (c) na kuzuia ukataji wa miti kiholela.

Katika jamii nyingi, taka zimekuwa _____ (d) kubwa la kimazingira. Taka zisiposimamiwa vizuri zinaweza _____ (e) mazingira na kusababisha magonjwa. Wananchi wanapaswa kutenganisha taka zinazoweza _____ (f) kutoka kwa zile zisizoweza kutumika tena.

Shule pia zina nafasi muhimu katika uhifadhi wa mazingira. Wanafunzi wanaweza kuanzisha miradi ya _____ (g) miti, kusafisha mazingira na kuelimisha jamii kuhusu umuhimu wa mazingira. Aidha, maji yanapaswa kutumiwa kwa _____ (h) ili kuzuia upotevu wake.

Ni wajibu wa kila mwananchi kuwa _____ (i) wa mazingira. Tukishirikiana, tutaweza kujenga mazingira _____ (j) kwa kizazi cha sasa na kijacho.

KAZI YA 3: SARUFI NA MSAMIATI Alama 30

3. Taja aina ya neno lililopigiwa mstari katika kila sentensi.

a) **Wanafunzi** walifanya utafiti kuhusu teknolojia. (1 alama)

b) Mwalimu aliwaeleza wanafunzi jambo **hilo**. (1 alama)

c) Wakulima walipanda mazao **mengi** msimu huu.

(1 alama)

d) Vijana **walishirikiana** katika mradi huo.

(1 alama)

e) Mti **ule** ulikuwa mrefu sana.

(1 alama)

f) Wanafunzi walifanya kazi **kwa bidii**.

(1 alama)

4. Andika sentensi zifuatazo katika **wingi** bila kubadilisha maana.

a) Kitabu hiki kimepotea.

(2 alama)

b) Mti huu umeanguka.

(2 alama)

c) Jembe lile limevunjika.

(2 alama)

5. Badilisha vitenzi vilivyopigiwa mstari kulingana na maagizo.

a) Wanafunzi **wanasoma** vitabu vya Kiswahili.

Badilisha kuwa **wakati uliopita**. (2 alama)

b) Mkulima **alipanda** miti mingi.

Badilisha kuwa **wakati ujao**. (2 alama)

c) Vijana **watashiriki** katika kampeni ya mazingira.

Badilisha kuwa **wakati uliopo. (2 alama)**

6. Andika sentensi zifuatazo katika hali ya **ukanushaji**.

a) Wanafunzi wamefanya usafi wa mazingira. **(2 alama)**

b) Mkulima atapanda miti kesho. **(2 alama)**

7. Andika kitenzi kilichomo kwenye mabano katika kauli uliyopewa.

a) Mama alim_____ mtoto chakula.

(–lish–)

Kauli ya kutendea (2 alama)

b) Wanafunzi wal_____ taarifa muhimu.

(–andik–)

Kauli ya kutendwa (2 alama)

8. Toa neno lenye maana sawa na lile lililopigiwa mstari.

a) Teknolojia imeleta **mabadiliko** makubwa katika elimu. **(1 alama)**

b) Wanafunzi wanapaswa kuwa **waangalifu** wanapotumia mtandao. **(1 alama)**

c) Jamii inapaswa **kuhifadhi** mazingira. **(1 alama)**

d) Taarifa hiyo ilikuwa **ya kweli**. (1 alama)

SEHEMU B: ALAMA 30**KAZI YA 4: UFAHAMU Alama 10**

9. Soma kifungu hiki kisha ujibu maswali yanayofuata.

UMUHIMU WA MIMEA NA WANYAMA

Mimea na wanyama ni sehemu muhimu ya mfumo wa mazingira. Mimea hutupatia oksijeni, chakula, dawa na malighafi zinazotumiwa katika viwanda mbalimbali. Miti pia husaidia kuhifadhi udongo na maji. Misitu inapohifadhiwa vizuri, huwa makazi ya viumbe wengi na huchangia katika kudhibiti mabadiliko ya tabianchi.

Wanyama nao wana umuhimu mkubwa katika mazingira na maisha ya binadamu. Baadhi yao hutupatia chakula, ngozi na bidhaa nyingine. Wanyama wa porini huvutia watalii na hivyo kuchangia mapato ya taifa. Aidha, wanyama mbalimbali hushiriki katika usawazishaji wa mfumo wa ikolojia.

Hata hivyo, shughuli za binadamu kama ukataji wa miti, uwindaji haramu, uchafuzi wa mazingira na upanuzi wa makazi zimeathiri mimea na wanyama. Baadhi ya viumbe viko katika hatari ya kutoweka. Ili kukabiliana na hali hii, jamii inapaswa kushirikiana na serikali katika kuhifadhi misitu, kulinda wanyamapori na kutumia maliasili kwa njia endelevu.

Maswali

a) Taja manufaa mawili ya mimea kwa binadamu. (2 alama)

b) Eleza namna wanyama wa porini wanavyosaidia uchumi wa taifa. (2 alama)

c) Taja shughuli mbili za binadamu zinazohatarisha mimea na wanyama. (2 alama)

d) Eleza maana ya kutumia maliasili kwa njia **endelevu**. (2 alama)

(2 alama)

[illegible]

HUU NDIO UKURASA WA MWISHO ULIOPIGWA CHAPA

KENYA SENIOR SCHOOL EDUCATION**GRADE 10 END-TERM 3 EXAMS****SERIES 1 TEST – (ARTS & SPORTS PATHWAY)****ESSENTIAL MATHEMATICS**

TIME: 2 HOURS

NAME.....

ASSESSMENT NO; SCHOOL;

CLASS..... SIGN.....

INSTRUCTIONS TO CANDIDATES

- Write your full name in the space provided above.
- Indicate your school, stream, admission number, and date clearly.
- This paper has **TWO sections: A and B**.
- Attempt **ALL questions** in both sections.
- Show all working clearly where necessary.
- Write all answers in the spaces provided.
- Do **NOT** remove any page from this paper.

FOR OFFICIAL USE ONLY (EXAMINER'S USE)

SECTION	SECTION A	SECTION B	% SCORE	EE1	EE2	ME1	ME2	AE1	AE2	BE1	BE2
SCORE RANGE	30 MARKS	50 MARKS		90-100	75-89	58-74	41-57	31-40	21-30	11-20	1-10
POINTS				8 POINTS	7 POINTS	6 POINTS	5 POINTS	4 POINTS	3 POINTS	2 POINTS	1 POINT
LEARNER'S TOTAL SCORE											

SECTION A (30 MARKS)**Answer ALL questions in this section.**

1. The population of a local town increases by an index factor represented by

$$2^3 \times 4^2 \times 8^{-1}.$$

- (a) Express 4^2 and 8^{-1} as powers of 2. (1 mark)

- (b) Using the laws of indices, simplify $2^3 \times 4^2 \times 8^{-1}$ to a single integer value. (2 marks)

2. Consider the quadratic expression $3x^2 - 11x - 4$.

- (a) Factorise the expression completely. (2 marks)

- (b) Hence, solve the equation $3x^2 - 11x - 4 = 0$. (1 mark)

3. A sector of a circular water tank has a radius of 14 cm and subtends an angle of 135° at the centre.

Calculate the area of the sector.

- Take $\pi = \frac{22}{7}$. (3 marks)

4. A trader buys a watch in the United States for **USD 120**. On returning to Kenya, she sells the watch at a profit of 25%.

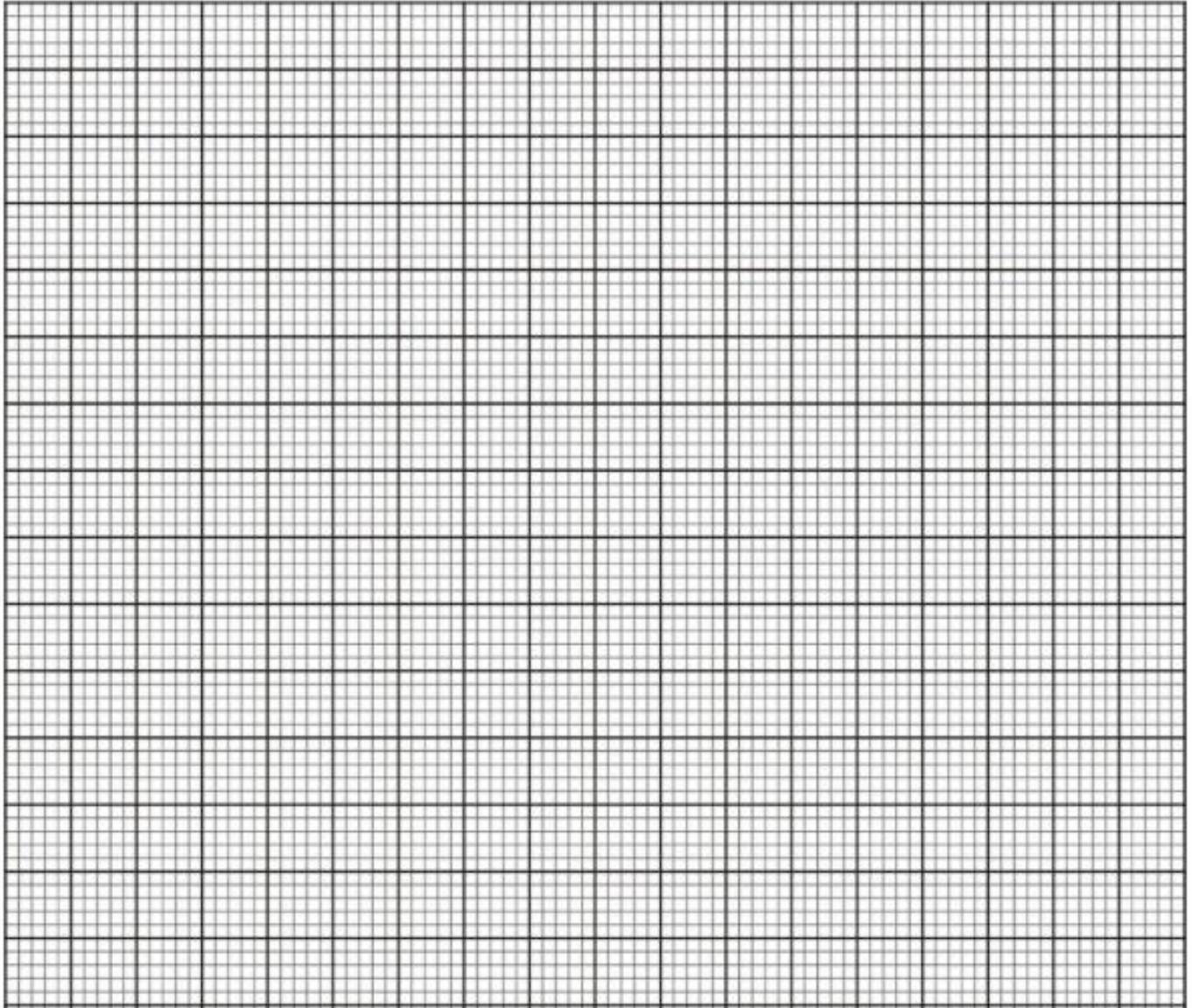
Given that the exchange rate is $1 \text{ USD} = 130 \text{ KES}$, calculate the selling price of the watch in **Kenya Shillings (KES)**. **(4 marks)**

5. A vertical pole stands on level ground. From a point 15 m from the base of the pole, the angle of elevation to the top of the pole is 38° .

Calculate the height of the pole, correct to **2 decimal places**. **(3 marks)**

6. Point $P(3, -2)$ is reflected in the line $y = x$ to obtain the image P' . The point P' is then enlarged about the origin $(0,0)$ using a linear scale factor of -2 , producing the final image P'' .

Determine the coordinates of:



(a) P' (2 marks)

(b) P'' (2 marks)

7. A solid right circular cone has a base radius of 6 cm and a slant height of 10 cm.

Calculate the **total surface area** of the cone in terms of π . **(3 marks)**

8. A fair six-sided die and a standard fair coin are tossed simultaneously.

(a) Draw a sample-space diagram showing all possible outcomes. **(1 mark)**

(b) Determine the probability of obtaining an **even number on the die and a Head on the coin**.

(2 marks)

9. Classify each of the following numbers as either **Rational** or **Irrational**. Give a reason for each answer.

(a) $\sqrt{18}$ **(2 marks)**

(b) 0.333 ... **(2 marks)**

SECTION B: 50 MARKS

Answer ALL questions in this section.

- 10.** Two similar conical water tanks have heights in the ratio
2: 5.

(a) State the linear scale factor from the smaller tank to the larger tank. **(1 mark)**

(b) The surface area of the base of the smaller tank is 48 cm^2 . Calculate the surface area of the base of the larger tank. **(3 marks)**

(c) The larger tank has a maximum capacity of 625 litres.

(i) Calculate the maximum capacity of the smaller tank in litres. **(3 marks)**

(ii) Water is pumped into the smaller tank at a constant rate of 0.5 litres per second. Calculate the time, in minutes, required to fill the smaller tank completely from empty. **(3 marks)**

11. A landowner plans to construct a rectangular garden. The length of the garden is $(2x + 3)$ m and its width is $(x - 1)$ m.

(a) Write an expression for the area A of the garden in terms of x . **(2 marks)**

(b) The total area of the garden is 45 m^2 .

(i) Form a quadratic equation in x and show that it simplifies to $2x^2 + x - 48 = 0$. **(2 marks)**

(ii) Solve the quadratic equation to obtain the possible value of x . **(4 marks)**

(iii) Hence, state the actual length and width of the garden. **(2 marks)**

12. A surveyor maps a triangular piece of land ABC . The measurements obtained are $AB = 8$ km, $AC = 11$ km and $\angle BAC = 62^\circ$.

(a) Calculate the area of the triangular piece of land ABC , correct to **2 decimal places**. **(3 marks)**

(b) Calculate the length of BC , correct to **2 decimal places**.

(4 marks)

(c) A drone is positioned 2 km vertically above point A . Calculate the angle of elevation of the drone as viewed from point B , correct to an appropriate degree of accuracy. **(3 marks)**

13. A bag contains 5 red balls and 3 blue balls. Two balls are drawn from the bag, one after another, **without replacement**.

(a) Draw a fully labelled tree diagram showing all possible outcomes and the corresponding probabilities. **(4 marks)**

(b) Calculate the probability that:

(i) Both balls drawn are red. **(2 marks)**

(ii) The two balls drawn are of different colours. **(2 marks)**

(iii) At least one blue ball is drawn. **(2 marks)**

14. A mathematics investigation recorded the scores of **40 Grade 10 students** in a mental arithmetic test marked out of 10.

The scores were:

4	7	5	6	8	5	4	9	6	5
7	6	5	8	4	6	7	5	10	6
5	9	6	4	7	6	5	8	6	5
6	5	7	6	4	8	7	6	5	9

- (a) Construct a frequency distribution table for the ungrouped data using the headings:

Score (x), Tally, Frequency (f), fx .

(4 marks)

- (b) State the modal score. (1 mark)

- (c) Calculate the mean score of the students.

(3 marks)

- (d) Determine the probability that a student selected at random scored **at least 7 marks**. (2 marks)

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KENYA SENIOR SCHOOL EDUCATION**GRADE 10 END-TERM 3 EXAMS****SERIES 1 TEST – (ARTS & SPORTS PATHWAY)****CORE MATHEMATICS**

TIME: 2 HOURS

NAME.....

ASSESSMENT NO; SCHOOL;

CLASS..... SIGN.....

INSTRUCTIONS TO CANDIDATES

1. Write your full name in the space provided above.
2. Indicate your school, stream, admission number, and date clearly.
3. This paper has **TWO** sections: **A and B**.
4. Attempt **ALL** questions in both sections.
5. Show all working clearly where necessary.
6. Write all answers in the spaces provided.
7. Do NOT remove any page from this paper.

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POINTS				8 POINTS	7 POINTS	6 POINTS	5 POINTS	4 POINTS	3 POINTS	2 POINTS	1 POINT
LEARNER'S TOTAL SCORE											

SECTION A (30 MARKS)

Answer ALL questions in this section.

1. Use logarithm tables to evaluate, correct to 4 significant figures:

$$\frac{1.24 \times 10^{-1.0456}}{3.82}$$

2. Solve for x in the index equation: $8^{x-1} \times 4^{2x+1} = 32^x$

3. Triangle ABC has side lengths $AB = 7$ cm, $BC = 9$ cm and $\angle ABC = 120^\circ$. Calculate the **exact area** of the triangle, leaving your answer in the form $a\sqrt{b}$ where a and b are rational numbers.

4. An annular metal washer has an outer radius of 8.4 cm and an inner radius of 5.6 cm.

Taking $\pi = \frac{22}{7}$, calculate the **surface area of one face** of the washer.

5. The position vectors of points P and Q , relative to the origin, are $p = \begin{pmatrix} 3 \\ -2 \end{pmatrix}$ and $q = \begin{pmatrix} -5 \\ 4 \end{pmatrix}$ respectively.

Find the magnitude of the vector $\overrightarrow{PQ}$, leaving your answer in **simplified surd form**.

6. A particle accelerates uniformly from rest and covers a displacement of 180 m in 12 seconds along a straight line.

Determine its velocity at the end of the **12 seconds**.

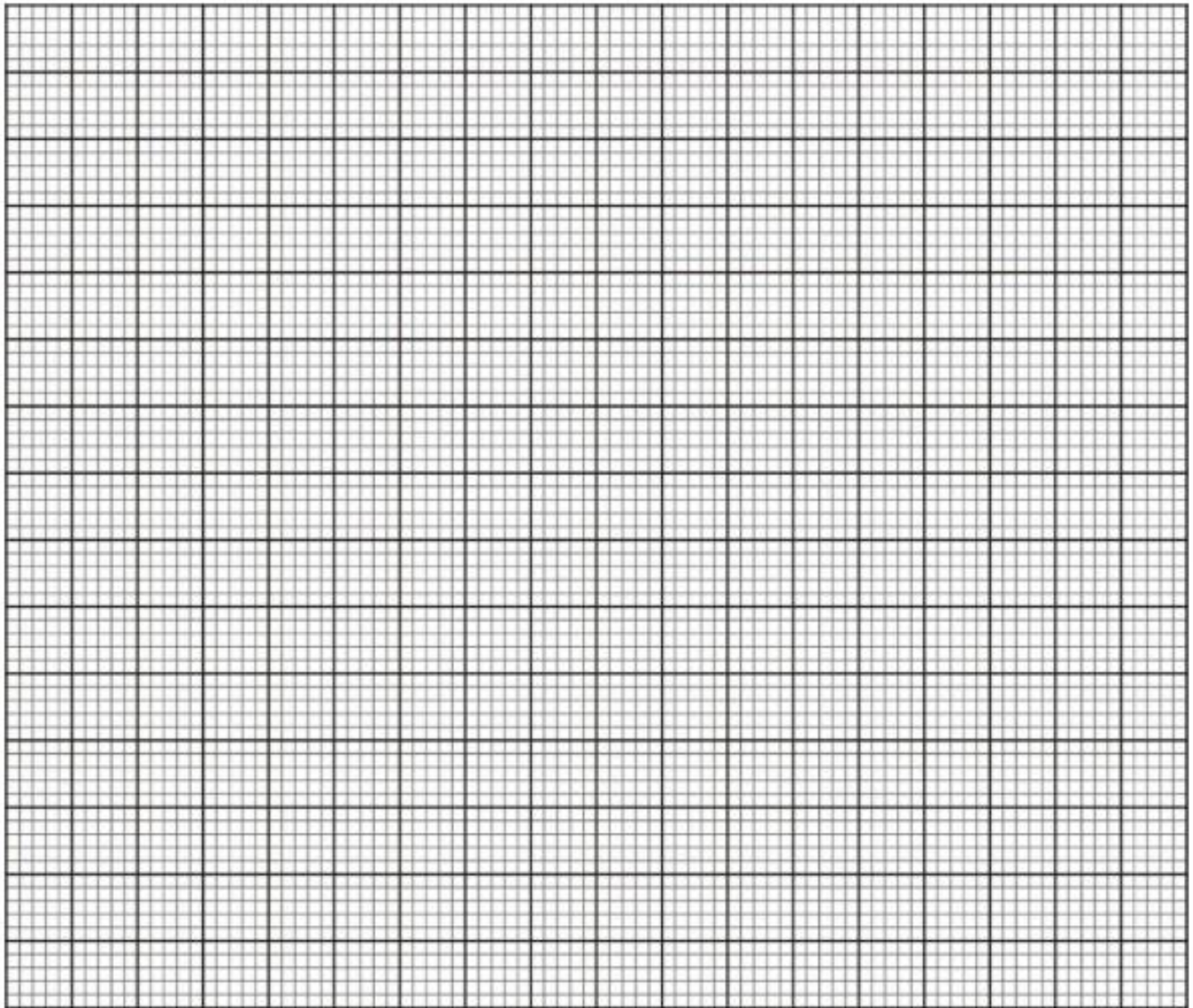
7. A quadrilateral $ABCD$ has side lengths

$AB = 6$ cm, $BC = 8$ cm, $CD = 10$ cm, $DA = 12$ cm, and diagonal $AC = 10$ cm.

Calculate the area of quadrilateral $ABCD$, correct to **2 decimal places**, using **Heron's formula** for each triangular component.

8. Point $A'(2, -5)$ is the image of $A(-4, 3)$ under a reflection across line L .

(a) Find the coordinates of the midpoint of AA' .



- (b) Determine the equation of the mirror line L in the form
$$y = mx + c.$$

9. A bag contains 4 red balls and 6 blue balls.

Two balls are picked at random, one after another, **without replacement**.

- (a) Draw a tree diagram to represent this experiment.
- (b) Calculate the probability that **at least one red ball** is selected.

SECTION B (50 MARKS)

Answer ALL questions in this section.

10. A sector of a circle with radius $r = 12$ cm subtends an angle of $\theta = 105^\circ$ at the centre O .

Points A and B lie on the arc such that $OA = OB = 12$ cm.

(a) Calculate the area of the sector OAB .

Take $\pi = 3.142$. [2 Marks]

(b) Calculate the area of triangle OAB .

[3 Marks]

(c) Determine the area of the minor segment bounded by the chord AB and the arc AB . [2 Marks]

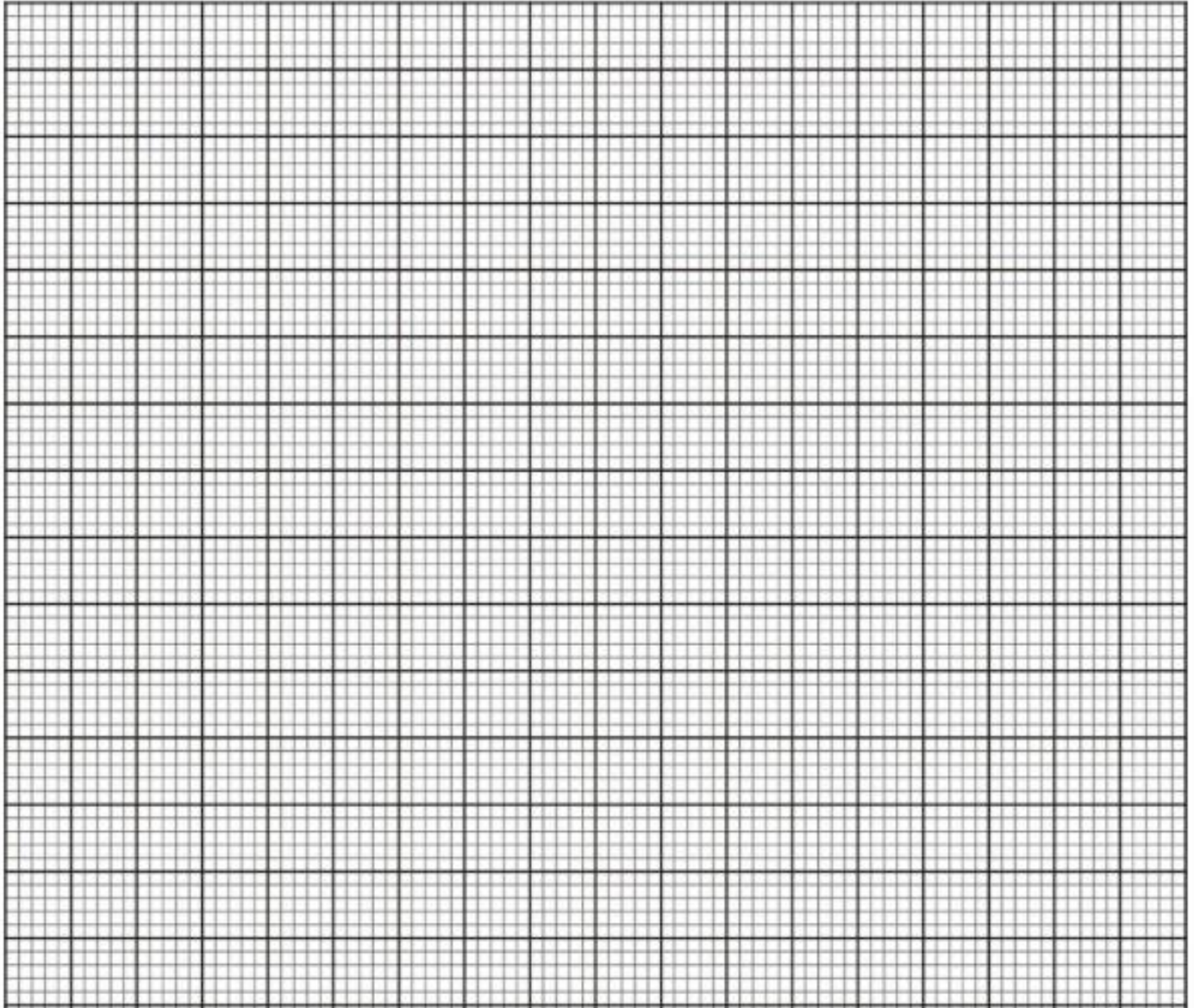
(d) A concentric inner circle creates an annulus of width **3 cm** within the main circle.

Calculate the area of the annular sector formed between the same radial lines OA and OB . [3 Marks]

11. Triangle PQR has vertices $P(1, 2)$, $Q(4, 2)$, $R(3, 5)$.

(a) Triangle PQR undergoes an enlargement with centre $C(0,0)$ and linear scale factor $k = -2$ to form image $P'Q'R'$.

State the coordinates of P' , Q' , and R' . [3 Marks]



(b) Triangle $P'Q'R'$ is then rotated through $+90^\circ$ about the origin $(0,0)$ to map onto triangle $P''Q''R''$.

Determine the coordinates of P'' , Q'' , and R'' . [3 Marks]

(c) Describe fully a **single transformation** that maps triangle PQR directly onto triangle $P''Q''R''$. [4 Marks]

12. Two cars, X and Y , start moving along a straight highway from town A towards town B , which is 240 km away. Car X leaves at 08:00 AM, travelling at a constant speed of 60 km/h. Car Y leaves town A at 08:30 AM, travelling at a constant speed of 80 km/h.
- (a) Express the distance covered by each car as a function of time t , in hours, after 08:00 AM. [2 Marks]

- (b) Calculate the time of day when Car Y overtakes Car X . [3 Marks]

- (c) How far from town A does the overtaking take place? [2 Marks]

- (d) If Car X experiences a breakdown immediately upon being overtaken and delays for 30 minutes before continuing at 90 km/h, determine which car arrives at town B first and by how many minutes. [3 Marks]

13. The vector positions of three towns A , B , and C are given relative to an airfield O .

The vectors $\overrightarrow{OA} = \mathbf{a}$ and $\overrightarrow{OB} = \mathbf{b}$.

Point C lies on AB such that $AC:CB = 2:3$.

Point M is the midpoint of OA .

(a) Express the vectors $\overrightarrow{AB}$ and $\overrightarrow{OC}$ in terms of $\mathbf{a}$ and $\mathbf{b}$. [3 Marks]

(b) Express the vector $\overrightarrow{MC}$ in terms of $\mathbf{a}$ and $\mathbf{b}$. [2 Marks]

(c) Line MC is produced to point N such that $\overrightarrow{MN} = k\overrightarrow{MC}$, and $\overrightarrow{BN} = h\mathbf{a}$, where k and h are scalars. Show that $\overrightarrow{ON}$ can be expressed in **two different ways** and find the values of k and h . [4 Marks]

(d) Deduce the ratio in which point C divides MN . [1 Mark]

14. The frequency distribution table below shows the distribution of marks scored by Grade 10 students in an end-of-term mathematics test.

Marks Class	Frequency f
30–39	4
40–49	8
50–59	14
60–69	12
70–79	8
80–89	4

(a) State the **modal class** and calculate the **estimated mean mark** for the distribution. [4 Marks]

(b) Calculate the **median mark** using the interpolation method.

[3 Marks]

(c) If two students are selected at random from the class, calculate the probability that **both scored 60 marks or above**.

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KENYA SENIOR SCHOOL EDUCATION**GRADE 10 END-TERM 3 EXAMS****SERIES 1 TEST – (ARTS & SPORTS PATHWAY)****PHYSICAL EDUCATION**

TIME: 2 HOURS

NAME.....

ASSESSMENT NO; SCHOOL;

CLASS..... SIGN.....

INSTRUCTIONS TO CANDIDATES

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LEARNER'S TOTAL SCORE											

SECTION A (30 MARKS)

1. a) State **two** important facilities required for playing a standard football match. (2 marks)

i. _____

ii. _____

b) Name the skill in football in which a player sends the ball through the air over a distance to a teammate. (1 mark)

2. Study the sequence below representing the execution of a football skill.



a) Identify the football skill represented. _____ (1 mark)

b) State **two** important factors a learner should observe when performing this skill. (2 marks)

i. _____

ii. _____

3. a) Name **two** passing skills learnt in Grade 10 netball. (2 marks)

i. _____

ii. _____

b) State **one** reason why accuracy is important when executing a pass in netball. (1 mark)

4. Study the diagram below.



a) Identify the volleyball skill illustrated. _____ (1 mark)

b) State **two** points to observe when performing this skill correctly. (2 marks)

i. _____

ii. _____

5. a) What is meant by **sidestep** in handball? (1 mark)

b) State **two** situations in which sidestep movement can be useful during a handball game. (2 marks)

i. _____

ii. _____

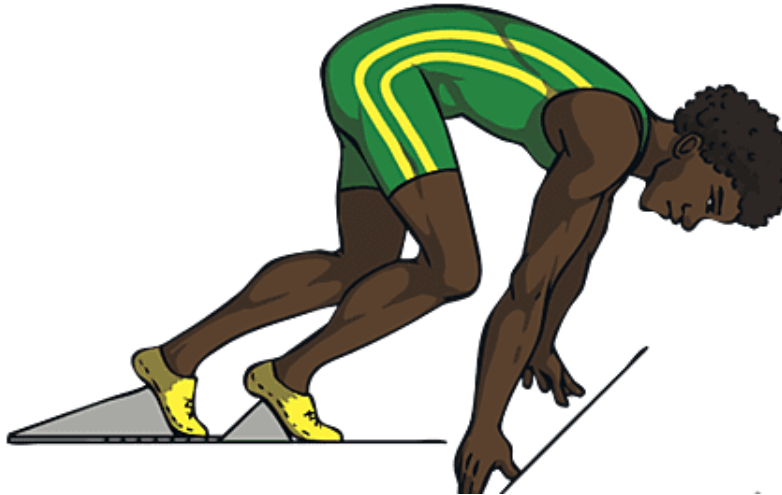
6. a) Name the basketball shooting technique in which the player shoots the ball while remaining stationary, usually using both hands in a controlled motion. (1 mark)

b) State **two** factors that can improve accuracy when performing this shot. (2 marks)

i. _____

ii. _____

7. The following diagram represents the starting position of an athlete.



a) Identify the type of start represented. _____ (1 mark)

b) State **two** reasons why a proper starting technique is important in sprinting. (2 marks)

i. _____

ii. _____

8. Name the **four main phases** of the long jump. (3 marks)

i. _____

ii. _____

iii. _____

iv. _____

9. a) State **one** safety precaution that should be observed before a javelin is thrown. (1 mark)

b) Give **two** characteristics of an effective javelin throwing technique. (2 marks)

i. _____

ii. _____

10. a) Where should the shot be placed before it is put? (1 mark)

b) State **two** safety measures that should be followed during a shot-put activity. (2 marks)

i. _____

ii. _____

SECTION B: 50 MARKS

Answer ALL questions in this section.

11. During a school football tournament, a Grade 10 learner is required to demonstrate effective attacking and defensive skills.

a) Explain **three stages** involved in performing an effective lofted pass in football. (3 marks)

i. _____

ii. _____

iii. _____

b) Describe **three techniques** that a player can use when attempting to dodge an opponent.

(3 marks)

i. _____

ii. _____

iii. _____

c) Explain **two important responsibilities of a goalkeeper** during a football match. (2 marks)

i. _____

ii. _____

d) State **two safety precautions** that players should observe during football training or competition.

(2 marks)

i. _____

ii. _____

12. A school coach is training learners to improve their passing and attacking skills in netball and volleyball.

(a) Explain the following components of a correct **flip pass in netball**: **(4 marks)**

i. Stance _____

ii. Grip _____

iii. Release _____

iv. Follow-through

(b)

i. Identify the skill commonly used to set up an attacking play in volleyball. **(1 mark)**

ii. Explain **three technical points** to observe when performing the skill identified in (b)(i).

(3 marks)

i. _____

ii. _____

iii. _____

iii. State **two ways** in which good sportsmanship can be demonstrated during a volleyball match.

(2 marks)

i. _____
ii. _____

13. (a) Handball

A handball player is attempting to move past a defender.

i. Describe the correct execution of a **sidestep** in handball. **(3 marks)**

i. _____

ii. _____

iii. _____

ii. Explain how a goalkeeper can effectively defend the goal using correct positioning and movement. **(2 marks)**

i. _____

ii. _____

(b)

A learner is practising the set shot.

i. Describe **three** technical points that should be observed when performing a basketball set shot. **(3 marks)**

i. _____

ii. _____

iii. _____

ii. Give **two reasons** why regular basketball practice can contribute to physical fitness and healthy living. **(2 marks)**

i. _____

ii. _____

14. A Grade 10 athlete is preparing for a 100-metre sprint.

i. Describe the **three commands** commonly used to organise a sprint start. (3 marks)

i. _____

ii. _____

iii. _____

ii. Explain **two** technical aspects of effective sprinting during the acceleration phase. (2 marks)

i. _____

ii. _____

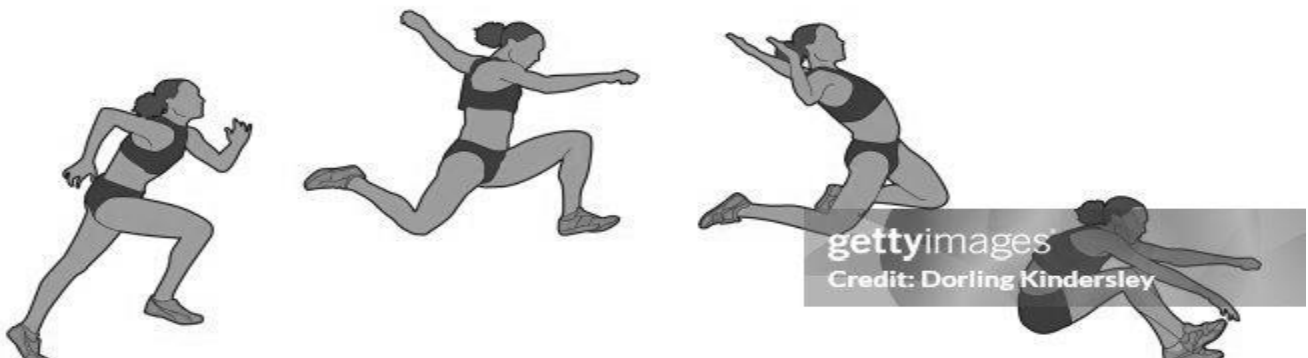
(b) Study the sequence below.

A

B

C

D



i. Identify the four phases labelled A, B, C and D.

(2 marks)

A: _____

B: _____

C: _____

D: _____

ii. Explain **one important technique** that should be observed during the take-off phase. (1 mark)

iii. State **two safety measures** that should be observed when conducting long-jump activities.

(2 marks)

i. _____

ii. _____

15. (a) i. Explain two differences between javelin and shot put in terms of the implement and method of propulsion. (2 marks)

<i>javelin</i>	<i>shot put</i>

ii. State **two safety precautions** that must be observed when conducting throwing events. (2 mks)

i. _____

ii. _____

(b) i. Name two optional sports from the list above.

(2 marks)

i. _____

ii. _____

ii. For **one** of the sports named in (b)(i), describe **two basic skills** used in the sport. (2 marks)

i. _____

ii. _____

(c) State two ways in which regular participation in Physical Education can contribute to a healthy lifestyle.

(2 marks)

i. _____

ii. _____

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THE END

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