

KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT

2026

PRE-TECHNICAL STUDIES

912/1 1 hour 40 minutes

Name _____

Assessment number _____

School _____

INSTRUCTIONS TO CANDIDATES

Answer all questions.

You require a ruler, a pair of compasses and a pencil for drawing questions.

Answer all multiple choice questions on the answer sheet provided. Use an HB pencil to shade the circle for the correct answer.

For each question, choose only one answer from A, B, C and D.

Answer the structured questions in the spaces provided. Show working where required.

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SECTION A (30 marks)

1. A worker installs and repairs electrical wiring in buildings. What is this occupation?

- A. Plumber
- B. Tailor
- C. Carpenter
- D. Electrician

2. A workshop exit is blocked by stored boxes. What should learners do?

- A. Clear the exit under supervision.
- B. Use the boxes as seats.
- C. Stack more boxes there.
- D. Lock the door.

3. Which feature makes a drawing technical rather than an artistic impression?

- A. It is drawn without measurements.
- B. It has no labels.
- C. It communicates an object's shape and dimensions accurately.
- D. It contains only bright colours.

4. A learner needs a flexible, water-resistant material for a protective sleeve. Which material is most suitable?

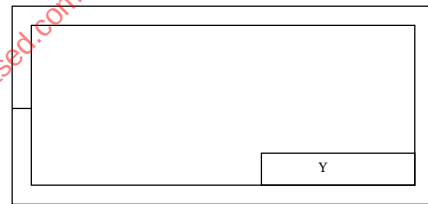
- A. Ceramic tile
- B. Dry paper
- C. Rubber
- D. Glass

5. Which tool is most suitable for measuring the depth of a small hole accurately?

- A. A paint brush
- B. A wood rasp
- C. A hand saw
- D. A vernier calliper with a depth rod

6. A small pan of burning cooking oil is safely covered with a fire blanket by a trained adult. Which principle extinguishes the fire?

- A. Increasing oxygen
- B. Adding fuel
- C. Increasing heat
- D. Excluding oxygen



7. In the drawing layout, what is the purpose of area Y?

- A. To record drawing information
- B. To store the actual object
- C. To show every construction arc
- D. To hold the compass needle

8. Why is a border kept around a technical drawing?

- A. To replace every dimension
- B. To keep the drawing neatly within a defined area
- C. To increase the object's real size
- D. To hide the title

9. A drawing represents a 240 mm part with a length of 120 mm. What scale is used?

- A. 2 : 1
- B. 1 : 4
- C. 1 : 1
- D. 1 : 2

10. A circle has radius 18 mm. What diameter should be shown when dimensioning it?

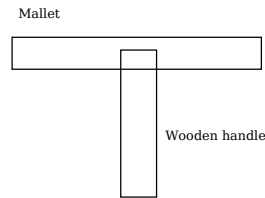
- A. 9 mm
- B. 18 mm
- C. 54 mm
- D. 36 mm

11. Which practice makes work on a raised platform safer?

- A. Checking stability and using appropriate fall protection
- B. Standing on a loose board
- C. Carrying open containers while climbing
- D. Reaching far beyond the edge

12. In an isometric drawing the two receding axes are usually drawn at what angle to the horizontal?

- A. 30°
- B. 15°
- C. 45°
- D. 60°



13. What is the main use of the illustrated tool?

- A. Measuring an angle
- B. Striking a chisel without using a metal hammer
- C. Testing electric current
- D. Cutting sheet metal

14. Which tool is most suitable for removing a nail from timber?

- A. A try square
- B. A claw hammer
- C. A spirit level
- D. A file

15. A bakery opens beside a busy bus stage. Which factor most directly supports this location?

- A. Access to passing customers
- B. Lack of transport
- C. Absence of any demand
- D. Distance from all customers

16. A learner notices that neighbours need repair services for torn school bags. This observation is a source of

- A. a wage deduction.
- B. an insurance claim.
- C. a business idea.
- D. a bank statement.

17. A shop expects income of Ksh 24,600 and expenses of Ksh 27,100. Its budget shows a

- A. deficit of Ksh 24,600.
- B. deficit of Ksh 2,500.
- C. surplus of Ksh 51,700.
- D. surplus of Ksh 2,500.

18. Why should a trader study customer preferences before stocking products?

- A. To stop keeping records
- B. To select goods likely to meet demand
- C. To avoid comparing prices
- D. To eliminate every business risk

19. Which trader normally buys goods in large quantities and supplies retailers?

- A. Wholesaler
- B. Final consumer
- C. Transport passenger
- D. Employee

20. A learner is skilled at designing posters. Which activity can develop this talent?

- A. Avoiding all feedback
- B. Copying every design without changes
- C. Stopping art lessons
- D. Guided practice and participation in design projects

21. Which institution is formed by members to save together and access credit under agreed rules?

- A. A transport company
- B. A retail kiosk
- C. A weather station
- D. A savings and credit cooperative

22. Why should packaged goods show accurate quantities?

- A. To increase transport distance
- B. To discourage all sales
- C. To replace the need for safe packaging
- D. To protect consumers from misleading claims

23. Which device is suitable for making a printed copy of a digital report?

- A. Scanner
- B. Microphone
- C. Printer
- D. Keyboard

24. An email is sent to the wrong address because of a typing error. What should the sender check before sending the corrected message?

- A. The recipient's address
- B. The size of the desk
- C. The keyboard colour
- D. The screen brightness

25. A washing machine uses a small computer to control its washing cycles. The computer is

- A. a general-purpose desktop.
- B. an external projector.
- C. an embedded computer.
- D. a paper calculator.

26. Which action is most responsible when disposing of an unusable electronic device?

- A. Break it into pieces and scatter them.
- B. Throw it into a river.
- C. Burn it in the playground.
- D. Send it to an authorised electronic-waste handler.

27. Which practice best limits access to an account if its password is stolen?

- A. Using the same password everywhere
- B. Sharing the password with friends
- C. Enabling multi-factor authentication
- D. Disabling the screen lock

28. Which software is most suitable for calculating totals in a household budget?

- A. A screen saver
- B. Drawing software
- C. Spreadsheet software
- D. Music playback software

29. Why should a damaged power cord be replaced before equipment is used?

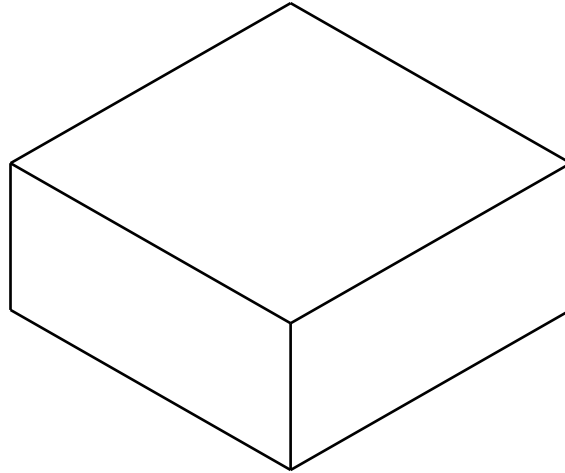
- A. It prevents the keyboard being washed.
- B. It reduces file size.
- C. It makes the screen smaller.
- D. It can expose users to electric shock or fire.

30. In visual programming, a block that repeats instructions several times represents

- A. an input device.
- B. a storage drive.
- C. a printer command.
- D. a loop.

SECTION B (50 marks)

31. The block shown is drawn in isometric projection.



Isometric block. No dimensions required.

Sketch the same block in oblique projection. Use the front face as a rectangle and show the depth receding at 45° . (3 marks)

32. A furniture maker selects timber for a set of shelves.

(a) Name two softwoods suitable for timber production. (2 marks)

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(b) State two reasons for selecting timber carefully before cutting. (2 marks)

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33. A wooden door made from poorly dried timber later becomes difficult to close.

State two effects of using insufficiently seasoned timber. (2 marks)

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34. A workshop stores paint and uses electrical tools.

State two precautions that reduce the risk of fire. (2 marks)

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35. Use a ruler and a pair of compasses. Leave construction arcs visible.

Construct an equilateral triangle with sides 7 cm. (2 marks)

36. A designer chooses materials for a washroom.

Give two properties of glazed ceramic tiles that make them suitable for the washroom. (2 marks)

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37. Learners are preparing to use a workshop with tools and materials.

Identify three hazards they should inspect for before work begins. (3 marks)

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38. Technical drawings use different types of lines.

(a) Draw a hidden-detail line 5 cm long. (1 mark)

(b) Draw an object outline 5 cm long. (1 mark)

39. A workshop has steel brackets, aluminium frames and copper cables.

(a) Give two reasons for choosing aluminium for a lightweight frame. (2 marks)

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(b) State one property of copper suitable for cables and one property of steel suitable for brackets. (2 marks)

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40. A small trader applies for a business service online.

State three precautions the trader should take to protect personal and financial information. (3 marks)

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41. A craft producer wants to receive payment from a buyer in another country.

State two services a commercial bank may offer for this transaction. (2 marks)

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42. A learner plans a small bicycle-repair enterprise.

State two items of information that should appear in the business plan. (2 marks)

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43. The Umoja Craft Club has the following balances on 30 September 2026.

Item	Ksh
Cash	8,400
Bank balance	18,600
Inventory	6,000
Capital	22,000
Loan	7,000
Creditors	4,000

Prepare a statement of financial position on that date. (3 marks)

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44. A learner wants to save Ksh 1,350 over nine weeks.

(a) Calculate the amount to save each week. (1 mark)

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(b) State one way of keeping track of progress towards the saving target. (1 mark)

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45. An old but working computer is given to a community learning centre.

Name the waste-management practice shown. (1 mark)

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46. Learners are setting up a shared computer workspace.

(a) State two ergonomic measures that make the workspace comfortable and reduce strain. (2 marks)

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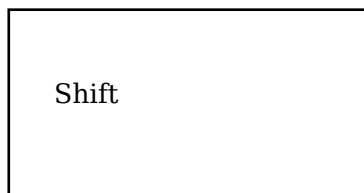
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(b) Name the computer characteristic shown when it stores records for future use. (1 mark)

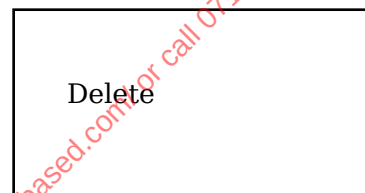
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47. Study the two keyboard keys.



P



Q

(a) State the function of P when used with a letter key. (1 mark)

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(b) State the function of Q during text editing. (1 mark)

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(c) Name one input device used to capture a person's voice. (1 mark)

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48. A learner spills a cleaning liquid near a powered computer.

State two actions the learner should take immediately. (2 marks)

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49. A notice is formatted as shown below.

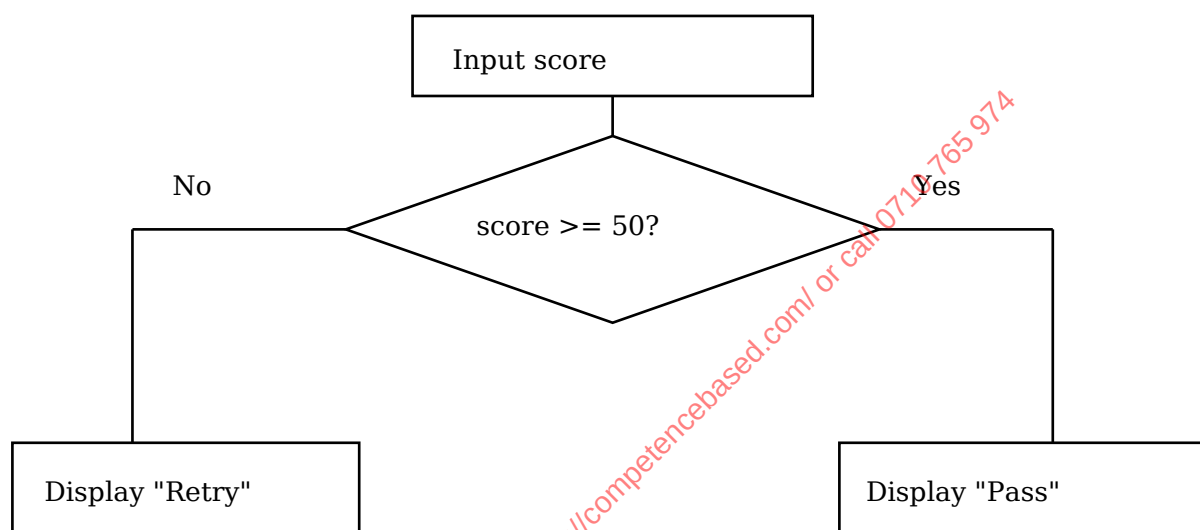
GARDEN OPEN DAY

Saturday morning

All families are welcome.

Identify three character-formatting features used in the notice. (3 marks)

50. Study the program flowchart.



(a) Name the variable used. (1 mark)

(b) State the output when the input is 47. (1 mark)

MULTIPLE CHOICE ANSWER SHEET

Name _____ Assessment number _____

- | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1. | (A) | (B) | (C) | (D) | 16. | (A) | (B) | (C) | (D) |
| 2. | (A) | (B) | (C) | (D) | 17. | (A) | (B) | (C) | (D) |
| 3. | (A) | (B) | (C) | (D) | 18. | (A) | (B) | (C) | (D) |
| 4. | (A) | (B) | (C) | (D) | 19. | (A) | (B) | (C) | (D) |
| 5. | (A) | (B) | (C) | (D) | 20. | (A) | (B) | (C) | (D) |
| 6. | (A) | (B) | (C) | (D) | 21. | (A) | (B) | (C) | (D) |
| 7. | (A) | (B) | (C) | (D) | 22. | (A) | (B) | (C) | (D) |
| 8. | (A) | (B) | (C) | (D) | 23. | (A) | (B) | (C) | (D) |
| 9. | (A) | (B) | (C) | (D) | 24. | (A) | (B) | (C) | (D) |
| 10. | (A) | (B) | (C) | (D) | 25. | (A) | (B) | (C) | (D) |
| 11. | (A) | (B) | (C) | (D) | 26. | (A) | (B) | (C) | (D) |
| 12. | (A) | (B) | (C) | (D) | 27. | (A) | (B) | (C) | (D) |
| 13. | (A) | (B) | (C) | (D) | 28. | (A) | (B) | (C) | (D) |
| 14. | (A) | (B) | (C) | (D) | 29. | (A) | (B) | (C) | (D) |
| 15. | (A) | (B) | (C) | (D) | 30. | (A) | (B) | (C) | (D) |

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