

# THE KENYA NATIONAL EXAMINATION AND ASSESSMENT PREDICTION SERIES

Candidate's Name		Assessment Number	
School Name		School Code	
Candidate's Signature		Date	

## KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT

712/1

PRETECHNICAL STUDIES (theory)

PAPER 1

TERM 2 ENDTERM 2025

Time: 1 hour 40 minutes

### INSTRUCTIONS TO CANDIDATES

1. Write your name and assessment number in the spaces provided above.
2. Write the name and code of your school in the spaces provided above.
3. Sign and write the date of the assessment in the spaces provided above.
4. This paper consists of two sections: A and B.
5. Section A comprises Multiple Choice Questions numbered 1 to 30.
6. Section B comprises Short Structured questions numbered 31 to 50.
7. Answer ALL the questions in section A on the separate ANSWER SHEET provided.
8. Answer ALL the questions in section B in the spaces provided in this question paper.
9. Do not remove any page from this question paper.
10. Answer all questions in English.

For official use only

### SECTION B

Task	Task 1								Task 2				Task 3							
Question	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Cand. Score																				
Max Score/Task	25								12				13							
Cand. Score/Task																				

This paper consists of 11 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

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Turn over

## SECTION A (30 marks)

*Answer All questions in this section on the answer sheets provided.*

1. Which of the following is NOT a component of Pre-Technical Studies in the CBC curriculum?

- A. Technical Studies    B. Business Studies
- C. Agriculture            D. Computer Studies

2. When starting a new project in the workshop, which of the following is the most important safety precaution to take?

- A. Wearing comfortable clothes.
- B. Ensuring proper ventilation.
- C. Having a first aid kit readily available.
- D. Listening to music while working.

3. A learner drew the line below.



This line is most likely a:

- A. Break line
- B. Hidden line.
- C. Construction line.
- D. Dimension line.

4. A learner is making a small storage box for their desk. Which material would be most suitable for this project due to its ease of working and availability?

- A. Steel                    B. Glass
- C. Plywood            D. Concrete

5. Which of the following tools is specifically designed for shaping and smoothing wood by removing thin layers?



6. In a metalwork workshop, sparks can be generated during grinding or welding. What personal protective equipment should learners wear to protect their eyes?

- A. Safety helmets
- B. Gloves
- C. Safety goggles
- D. Aprons

7. Which of the following is a key property of **plastic** materials that makes them widely used in packaging?

- A. High electrical conductivity
- B. Brittleness
- C. Lightweight and waterproof
- D. High melting point

8. Proper storage of tools is essential for their longevity and safety. Which of the following is the BEST way to store a sharp cutting tool after use?

- A. Leave it on the workbench.
- B. Place it in a drawer with other tools.
- C. Clean it and store it in a designated rack with its cover.
- D. Hang it loosely on a wall.

9. Metals are classified into ferrous and non-ferrous. Which of the following is a non-ferrous metal?

- A. Cast iron      B. Steel
- C. Aluminum      D. Wrought iron

10. A Grade 7 learner is handling the tool below.



Which of the following is the name of the tool?

- A. ammeter      B. ohmmetre
- C. voltmeter      D. multimeter

11. In the event of a fire, the most appropriate immediate action for a learner in a workshop should be to:

- A. Run away from the workshop.
- B. Try to put out the fire using water.
- C. Raise the alarm and follow evacuation procedures.
- D. Call their parents.

12. Grade 7 learners drew the symbol below. What is its name in full?



- A. Dangerous
- B. Toxic
- C. Carcinogenic
- D. Radioactive Chemical

13. Technical Studies use symbols like the one shown below.







What is the name of the symbol drawn?

- A. Length      B. Centre line
- C. Diameter      D. Perpendicularity

14. Recycling has numerous benefits. Which of the following is a primary benefit of recycling materials in terms of resource management?

- A. Increases production costs.
- B. Depletes natural resources faster.
- C. Conserves natural resources.
- D. Generates more waste.

15. Different learners drew different artistic drawings. Which one of them drew a caricature?

A.	Oscar	
B.	Dorothy	
C.	Mary	
D.	Allan	

16. An entrepreneur is someone who identifies opportunities and takes risks to start a business. Which of the following qualities is LEAST important for a successful entrepreneur?

- A. Creativity
- B. Risk-aversion
- C. Determination
- D. Problem-solving skills

17. Which of the following is an example of a service business?

- A. A shoe manufacturing factory.
- B. A grocery store.
- C. A hair salon.
- D. A farm.

18. Learners were discussing about factors of production. Which one is not a factor of production?

- A. Land
- B. Labour
- C. Capital
- D. Computer

19. Which of the following describes an **active** source of income?

- A. Money earned from interest on savings.
- B. Rental income from property.
- C. Salary received for work performed.
- D. Dividends from shares.

20. A Grade 7 learner is creating a personal budget. What is the primary purpose of creating a budget?

- A. To spend all available money.
- B. To track and manage income and expenses.
- C. To lend money to friends.
- D. To avoid paying taxes.

21. Mwikali wants to start a small business selling baked goods from her home. Which of the following is a factor of production she will need to consider under **Capital**?

- A. Her baking skills.
- B. The oven and baking ingredients.
- C. The demand for baked goods in her area.
- D. The time she spends baking.

22. Which of the following is the most effective way to identify a viable business idea?

- A. Copying a friend's business.
- B. Waiting for an idea to randomly appear.
- C. Conducting market research to identify unmet needs.
- D. Choosing a business that requires minimal effort.

23. Which of the following is an output device of a computer?

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

24. Grade 7 learners were discussing about classification of computers. They displayed the following



Tablets and smartphones are examples of which category of computers?

- A. Supercomputers    B. Mainframe computers  
C. Portable computers    D. Minicomputers

25. When using computers in a laboratory, what is an important safety measure regarding electrical cords?

- A. Run cords across walkways.  
B. Ensure cords are frayed.  
C. Keep cords tidy and out of walkways.  
D. Plug many devices into one socket.

26. To protect your personal information when using online platforms, what is the most effective measure to take?

- A. Share your password with close friends.  
B. Use the same password for all accounts.  
C. Create strong, unique passwords and enable two-factor authentication.  
D. Click on all links received in emails.

27. Which of the following keys on a standard keyboard is used to create a new line or paragraph in a word processing document?

- A. Shift key  
B. Alt key  
C. Enter key  
D. Tab key





28. A software that enables users to perform specific tasks like creating documents, presentations, or managing data is known as:

- A. Operating System  
B. Utility Software  
C. Application Software  
D. Programming Language

29. A visual programming application uses blocks or graphical elements to create code. Which of the following best describes the benefit of using visual programming for beginners?

- A. It uses complex text-based commands.  
B. It makes coding difficult to understand.  
C. It provides a user-friendly interface for learning programming logic.  
D. It is only for advanced programmers.

30. In a word processing application, which icon typically represents the "Save" function?

- |  |   |
|--|---|
| A  | B  |
| C  | D  |

## SECTION B (50 marks)

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

31. State two differences between Technical Drawing and Artistic Drawing. (2 marks)

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a) Identify the following artistic drawing.( 2 marks)

**A**



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**B**



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32Daudi was learning how to draw in pretechnical studies.

State two importance of drawing as a means of communication (3 marks)

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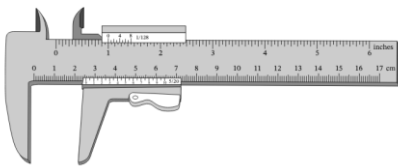
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33. The picture below shows a common tool found in a workshop.

a) Identify the tools shown above. (2 marks)

**A**



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**B**



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b) State two uses of the tool below. (2 marks)



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34. During a pretechnical studies lesson, learners were asked to identify metals in their locality..

a) Give two uses of iron metal. (2 marks)

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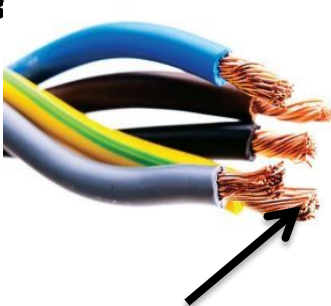
b) Name the metal that has been used to make the following items. (2 marks)

**A**



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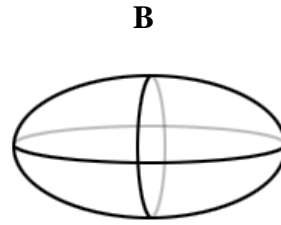
**B**



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35. Orthographic projection is a common method of representing 3D objects in 2D. Make a free hand sketch of a rectangular prism with dimensions 5cm x 3cm x 2cm in isometric projection. (2 marks)

b) Identify the following 3D shapes. ( 2 marks)



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36. During a drawing lesson, learners drew different sketches.. State two techniques for free hand sketching. (2 marks)

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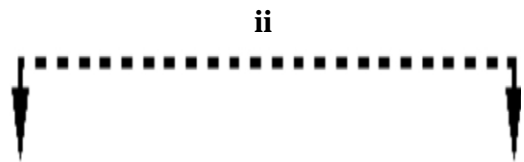
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37. Learners drew various lines on their books.

a. What is the name of the following line?. (2 marks)



\_\_\_\_\_.



\_\_\_\_\_.

b.what is the meaning of the following symbols. ( 2 marks)

	Symbol	Meaning
i		
ii		

38. Grade 7 learners visited a certain production site. Identify two categories of material used for production. (2 marks)

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\_\_\_\_\_



39. Mary started a small business selling clothes. At the end of the month, she had the following financial details:

Item	Amount (Ksh)
Total sales	35,000
Total expenses	12,000

Calculate Mary's **Profit** for the month. (2 marks)

b) Mary was given the following currencies by a customer. Identify the current currency used in Kenya today. ( 1 mark)

**A**



**B**



40. Learners were asked to identify different businesses they can start at home to generate them an income. Identify two businesses likely to be mentioned.(2 marks)

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41. Mr. Kimani wants to start business furniture. Outline two ICT tools he should use to market his business. (2 marks)

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42. Communication is very important for a business..

a) Identify two benefits of communication. (2 marks)

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b) State one component of communication. (1 mark)

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43. A Grade 7 learner wants to store their completed digital project files for future access. State one computer storage device that can be used for long-term storage of these files. (1 mark)

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44. Match each of the following computer hardware devices with their respective function. (2 marks)

Device	Function
Speaker	Allows interaction with the computer by clicking and pointing.
Microphone	Processes and executes instructions.
Central Processing Unit (CPU)	Produces audio output.
Mouse	Captures sound input.

45. Internet safety is crucial when interacting online. Name two common online threats that learners should be aware of. (2 marks)

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\_\_\_\_\_

46. The following are steps involved in using a word processor to type a document. They are not in the correct order.

- (i) *Save the document.*
- (ii) *Open the word processing application.*
- (iii) *Type the content of the document.*
- (iv) *Format the document.*

Arrange the instructions in the correct order. (2 marks)

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\_\_\_\_\_

47. What is the main purpose of an Operating System (OS) in a computer? (1 mark)

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\_\_\_\_\_

48. Benard wants to send a private message to a friend online. He is concerned about his privacy. State one measure Benard can take to ensure his message is private. (1 mark)

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49. Grade 7 learners prepared the following spreadsheet to track their project expenses.

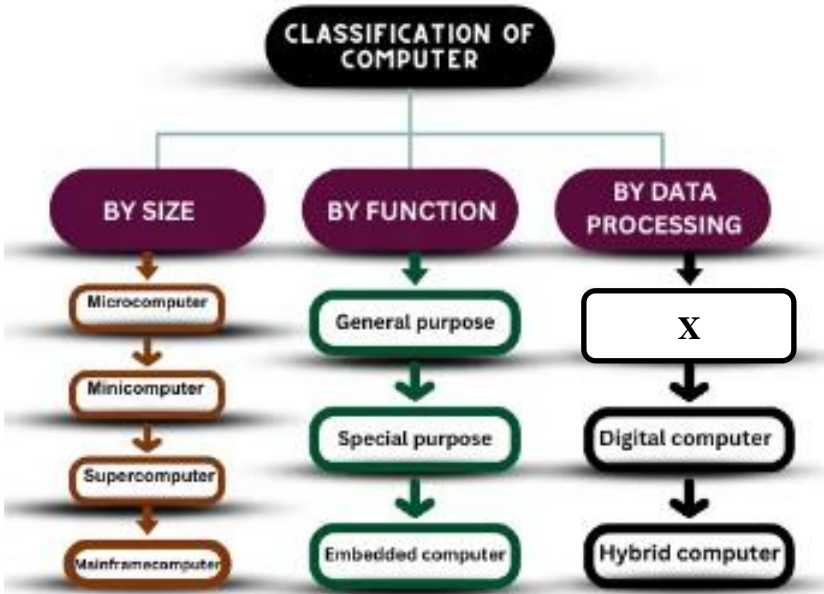
	A	B	C	D
1	ITEM	QUANTITY	UNIT COST (Ksh)	TOTAL COST (Ksh)
2	Wood	2	300	600
3	Nails	1	50	50
4	Paint	1	250	250
5	Glue	1	100	100
6	Total Expenses			

Write the formula that the learners would use to calculate the **Total Expenses** in cell D6. (2 marks)

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50. A Pre-Technical Studies teacher developed a simple computers classification chart.



Which type of computer would fill the space X above?

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