DOYEN PUBLISHERS

KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT MID-TERM II 2025 EXAM GRADE 9

PRE-TECHNICAL STUDIES

| | | | Time: 1 hour 30 mins |
|----------|----|-----------|----------------------|
| NAME: | | | |
| SCHOOL: | | | |
| STREAM: | D | DATE: | |
| | 04 | - 5//2 // | |
| DUCTIONS | | | |

INSTRUCTIONS

- a) Write your name, school, stream and date in the spaces provided above.
- b) This paper consists of two sections: A and B.
- c) Section A comprises Multiple Choice Questions numbered 1 to 30.
- d) Section B comprises short, structured questions number 31 to 35.
- e) Answer ALL the questions in section A in the table provided below.
- f) Answer ALL the questions in section B in the spaces provided in this QUESTION PAPER.
- g) Do NOT remove any page from this question paper. Answer ALL the questions in English

ANSWER SHEET - SECTION A

| | | 100 | | | | | | | | | | | | | disc. | - 2 | Contract of the Contract of th | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--|-----|-----|
| 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. | 12. | 13. | 14. | 15. | 16. | 17. | 18. | 19. | 20. |
| | | | | /_ | 1 | | | | | | | | | 2 | | | / | | |
| 21. | 22. | 23. | 24. | 25. | 26. | 27. | 28. | 29. | 30. | | | AE | | | | | | | |

LEARNER'S SCORE

| SCO | TOTAL | |
|----------------------|-------|--|
| A (Out of 30) | | |
| B (Out of 40) | | |

This paper consists of 7 printed pages. Candidates should check the question paper to confirm that all pages are printed as indicated and that no questions are missing

L'avenir commence ici

Page 1 of 7

DOYEN PUBLISHERS || 0780802443

Visit our website to access complete papers: www.doyenpublishers.com.

SECTION A (30 marks)

Answer ALL the questions in this section. Write your answers in the spaces provided on the first page.

- 1. What is the main reason raised platforms are used 6. The image shows a symbol that appears on a in construction and maintenance work?
 - A. They reduce the number of workers needed
 - B. They allow access to elevated and difficult-toreach areas
 - C. They are cheaper than permanent structures
 - D. They can be used in place of ladders permanently
- 2. Identify the type of raised platform shown in the diagram below, commonly used in construction for temporary support at height.



- A. Ladder
- B. Elevated catwalk
- C. Cherry picker
- D. Scaffolding
- 3. Melissa wants to work on a mobile raised platform indoors. What is the best safety precaution she should take before starting the task?
 - A. Wear bright-colored clothes
 - B. Use the nearest available ladder
 - C. Ask someone to hold the platform while you
 - D. Ensure the platform is locked and stabilized
- 4. A worker needs to carry tools while climbing a ladder to a raised platform. What is the safest approach?
 - A. Hold tools in one hand and climb with the
 - B. Throw the tools up before climbing
 - C. Use a tool belt or hoist the tools after climbing
 - D. Climb quickly to minimize time on the ladder
- 5. While working on an aerial work platform, you notice strong winds starting to blow. What should you do?
 - A. Stop working and lower the platform to a safe
 - B. Use heavier tools to weigh down the platform
 - C. Secure yourself and continue working quickly
 - D. Move to the edge to assess the wind strength

container of a lab acid.



What type of hazardous substance does it most likely indicate?

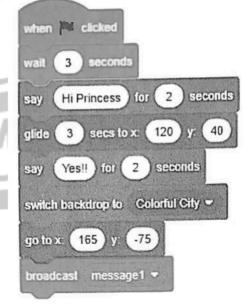
- A. Flammable
- C. Corrosive
- B. Poisonous
- D. E-waste
- A student is disposing of a broken phone and some electric wires at home. What is the safest method of disposal?
 - A. Burn the items to reduce waste
 - B. Bury them in the backyard
 - C. Throw them in the regular household trash
 - D. Take them to an authorized e-waste recycling center
- Why is it important to read the label before handling hazardous substances?
 - A. To understand the hazards, precautions and necessary protective equipment
 - B. To know how much it costs
 - C. To check the expiry date only
 - D. To see if it's made locally
- 9. Jack Kadeere is transporting sealed containers of petrol. What safety measure should they definitely take?
 - A. Lay the containers sideways for more space
 - B. Leave the trunk open to let fumes escape
 - C. Use paper bags to wrap the containers
 - D. Clearly mark the containers as flammable and secure them upright
- 10. Which of the following subjects falls under the STEM category in the proposed senior school curriculum?
 - A. Metal Technology
 - B. Fine Arts
 - C. Kiswahili Mufti
 - D. Christian Religious Education

L'avenir commence ici

Page 2 of 7

- 11. Marjorie who excels in carpentry and enjoys hands-on problem-solving. She wants to choose a suitable career. Which path would BEST suit their talent and ability?
 - A. Data analysis
 - B. Business law
 - C. Construction management
 - D. Psychology
- 12. A person uses their talent in public speaking and social media to promote a new product but gives misleading details to attract buyers. Which unethical practice is this?
 - A. Nepotism
 - B. Deceptive marketing practices
 - C. Conflict of interest
 - D. Privacy violation
- 13. A student interested in both cooking and entrepreneurship wants to align their passion with self-development. What is the BEST approach to achieve this?
 - A. Focus only on hobbies and ignore learning
 - B. Wait for job offers before deciding on a direction
 - C. Attend culinary and business training while exploring startup opportunities
 - D. Avoid challenges to maintain balance
- 14. What is a key characteristic of oblique drawing in technical fields?
 - It always shows objects from a bird's-eye view.
 - B. The front face is drawn in true shape and size.
 - C. It only uses horizontal lines for depth.
 - D. It exaggerates height more than width.
- 15. In military oblique projection, the receding lines are usually drawn at what angle?
 - A. 60 degrees
- C. 30 degrees
- B. 45 degrees
- D. 90 degrees
- 16. A student wants to draw a cube in oblique projection where all sides (including depth) are the same length and angle. Which method should they use?
 - A. Cabinet projection
 - B. Cavalier projection
 - C. Military projection
 - D. Orthographic projection

- 17. An engineering student is following the steps to sketch an oblique projection. After drawing the front face and 45° lines for depth, what should they do next?
 - A. Shade the front view
 - B. Draw the back view using dotted lines
 - C. Add dimensions and labels
 - D. Connect the ends of the depth lines with verticals to create height
- 18. What is the primary advantage of using visual programming?
 - A. It requires specialized hardware to function
 - B. It replaces the need for algorithms
 - C. It is only used for creating animations
 - D. It simplifies programming by using graphical elements instead of text
- 19. Which of the following is not an example of visual programming software?
 - A. Scratch
 - B. Blockly
 - C. Python
 - D. Code.org
- 20. Based on the image below, which type of Scratch component is being used to define a behavior when the green flag is clicked?



- A. Backdrop
- B. Script block
- C. Sound tab
- D. Costume

L'avenir commence ici

Page 3 of 7

- 21. What is the function of sprites in a Scratch project?
 - A. To act as characters or objects in the project
 - B. To write traditional code syntax
 - C. To control the background of the project
 - D. To represent mathematical formulas
- 22. What does visual programming use instead of traditional code syntax?
 - A. Mathematical formulas
 - B. Static variables
 - C. Keyboard shortcuts
 - D. Graphical blocks or elements
- 23. A teacher wants students to prototype an interactive story using characters, dialogue, and scenery. Which Scratch feature should they use first?
 - A. Multiply button
 - B. Costumes tab
 - C. Sprites and backdrops
 - D. Sound effects
- 24. What is the main function of holding tools?
 - A. To cut materials
 - B. To grip, clamp or secure objects during work
 - C. To hammer nails
 - D. To rotate screws and bolts
- 25. Which of the following is NOT an example of a holding tool?
 - A. Bar clamp
 - B. Pipe wrench
 - C. Screwdriver
 - D. Locking pliers
- 26. What is the use of the tool shown below?



- A. To hold workpieces firmly while sawing, drilling or filing
- B. To cut wires and cables
- C. To tighten bolts and nuts
- D. To hammer nails

- 27. You are assembling a wooden panel and need to hold two large pieces together tightly while the glue dries. Which tool would be most suitable?
 - A. Bar clamp
 - B. Combination spanner
 - C. Spring clamp
 - D. Allen wrench
- 28. You need to loosen a stuck pipe fitting during plumbing work. Which tool is best suited for this task?
 - A. Pipe wrench
 - B. Combination spanner
 - C. Chip clip
 - D. Drill vice
- 29. Examine the diagram of the tool. Which tool is shown in the diagram?



- A. Screwdriver
- B. Hammer
- C. Pliers
- D. Mallet
- 30. While working on electrical wiring, you need to cut and grip wires securely at the same time. Which tool should you use?
 - A. Combination cutting pliers
 - B. Hand vice
 - C. Binder clip
 - D. Spring clamp

L'avenir commence ici