**KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT**

**EXAM 2025**

**PRETECHNICAL STUDIES (912/1)**

**NAME:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**SCHOOL:**  .\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**INSTRUCTIONS**

1. Write your name, school, and stream in the spaces provided above.
2. Answer **ALL** the questions in this booklet.
3. This question paper consists of **two sections: A and B**.
4. Answer **all questions** in Section A in the table provided.
5. Answer **all questions** in Section B in the spaces provided after each question.
6. Show all your workings in Section B.
7. **Do NOT remove any page** from this question paper.
8. Answer the questions in **English**.

**LEARNER'S SCORE**

|  |  |  |
| --- | --- | --- |
| Section | Scores | Total |
| A (Out of 30) |  |  |
| B (Out of 40) |  |  |

**SECTION A:** (30 Marks)

*Choose the correct answer and write its letter in the answer sheet.*

1. **What is the primary purpose of safety rules in the work environment?**  
   A. To increase productivity  
   B. To prevent accidents and injuries  
   C. To save costs  
   D. To reduce workload
2. **Which of the following is NOT an example of an online threat?**  
   A. Malware  
   B. Cyber-bullying  
   C. Physical theft  
   D. Phishing
3. **Which of the following cables is used to connect a projector to a computer?**  
   A. USB  
   B. HDMI  
   C. VGA  
   D. Both B and C
4. **Which type of drawing represents a three-dimensional object in two dimensions?**  
   A. Perspective drawing  
   B. Freehand drawing  
   C. Isometric drawing  
   D. Orthographic projection
5. **Which tool is used for measuring very small distances with high accuracy?**  
   A. Ruler  
   B. Vernier caliper  
   C. Tape measure  
   D. Set square
6. **What is the main function of money?**  
   A. To be a medium of exchange  
   B. To increase the cost of goods  
   C. To reduce production  
   D. To create employment
7. **Which of the following is NOT a metallic material?**  
   A. Copper  
   B. Iron  
   C. Rubber  
   D. Aluminum
8. **Which fire extinguisher is used for electrical fires?**  
   A. Water extinguisher  
   B. Carbon dioxide extinguisher  
   C. Foam extinguisher  
   D. Wet chemical extinguisher
9. **What does a CPU do in a computer?**  
   A. Stores files permanently  
   B. Processes data  
   C. Controls only the monitor  
   D. Connects to the internet
10. **Which device is an example of an input device?**  
    A. Monitor  
    B. Printer  
    C. Keyboard  
    D. Speaker
11. **What is the first step in managing a fire outbreak?**  
    A. Run away  
    B. Identify the source of fire  
    C. Pour water on it immediately  
    D. Call the fire department
12. **Which of the following is an example of an economic resource?**  
    A. Air  
    B. Land  
    C. Plastic  
    D. Paper
13. **Which of the following is NOT a function of business communication?**  
    A. Sharing information  
    B. Making profits  
    C. Building customer relationships  
    D. Advertising products
14. **Which of the following is an unethical practice in communication?**  
    A. Lying to customers  
    B. Using clear language  
    C. Listening to clients  
    D. Respecting confidentiality
15. **What is a factor to consider when selecting a communication channel?**  
    A. The size of the building  
    B. The language used  
    C. The cost of the method  
    D. The age of the business
16. **Which of the following is a non-metallic material?**  
    A. Steel  
    B. Copper  
    C. Plastic  
    D. Aluminium
17. **What is an entrepreneur?**  
    A. A person who starts and manages a business  
    B. A person who only works in a factory  
    C. A person who does manual labor  
    D. A person who buys goods from a shop
18. **Why is saving important?**  
    A. To spend more money on luxury  
    B. To reduce business expenses  
    C. To have money for future needs  
    D. To avoid budgeting
19. **Which of these is a method of saving?**  
    A. Borrowing money  
    B. Investing in stocks  
    C. Spending everything  
    D. Giving money to a friend
20. **What is the purpose of budgeting?**  
    A. To track and control expenses  
    B. To reduce the cost of goods  
    C. To increase profits only  
    D. To avoid working

**SECTION B: (50 Marks)**

Answer all questions in the spaces provided.

1. State two safety measures to follow in a workshop. (2 marks)
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Define phishing and give one example. (2 marks)

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1. List two types of cables used in computer connections. (2 marks)
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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4. Name two functions of money. (2 marks)
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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7. State two causes of fire in a workplace. (2 marks)
8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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10. Differentiate between metallic and non-metallic materials. (4 marks)

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1. List two marking tools used in technical work. (2 marks)
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Mention two functions of business communication. (2 marks)
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Explain two factors to consider when choosing a communication channel. (4 marks)
8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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10. Give three characteristics of an entrepreneur. (3 marks)
11. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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14. What is bookkeeping and why is it important? (2 marks)

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1. List two sources of income for an individual. (2 marks)
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Explain the importance of budgeting. (2 marks)
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. List three types of business transactions. (3 marks)
8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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11. Identify two ethical practices in business communication. (2 marks)
12. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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14. State three reasons why saving money is important. (3 marks)
15. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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18. Give two methods of investment. (2 marks)
19. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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21. List two cutting tools used in a workshop. (2 marks)
22. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
23. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
24. Explain one method of managing fire in a work environment. (2 marks)
25. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
26. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
27. What is visual programming and give one example? (2 marks)

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ANSWERS

1. **B** – To prevent accidents and injuries
2. **C** – Physical theft
3. **D** – Both B (HDMI) and C (VGA)
4. **C** – Isometric drawing
5. **B** – Vernier caliper
6. **A** – To be a medium of exchange
7. **C** – Rubber
8. **B** – Carbon dioxide extinguisher
9. **B** – Processes data
10. **C** – Keyboard
11. **B** – Identify the source of fire
12. **B** – Land
13. **B** – Making profits
14. **A** – Lying to customers
15. **C** – The cost of the method
16. **C** – Plastic
17. **A** – A person who starts and manages a business
18. **C** – To have money for future needs
19. **B** – Investing in stocks
20. **A** – To track and control expenses
21. **State two safety measures to follow in a workshop.** *(2 marks)*

* Always wear protective gear.
* Keep the work area clean and organized.

1. **Define phishing and give one example.** *(2 marks)*

* Phishing is a cybercrime where scammers trick people into providing personal information.
* Example: Fake emails asking for banking details.

1. **List two types of cables used in computer connections.** *(2 marks)*

* HDMI
* VGA

1. **Name two functions of money.** *(2 marks)*

* Medium of exchange
* Store of value

1. **State two causes of fire in a workplace.** *(2 marks)*

* Electrical faults
* Flammable materials left near heat sources

1. **Differentiate between metallic and non-metallic materials.** *(4 marks)*

* **Metallic materials**: Conduct electricity, are strong, and include iron and copper.
* **Non-metallic materials**: Do not conduct electricity, are flexible, and include plastic and rubber.

1. **List two marking tools used in technical work.** *(2 marks)*

* Scriber
* Chalk line

1. **Mention two functions of business communication.** *(2 marks)*

* Facilitates decision-making
* Enhances customer relations

1. **Explain two factors to consider when choosing a communication channel.** *(4 marks)*

* **Cost** – Should be affordable for the business.
* **Speed** – Should deliver the message quickly and efficiently.

1. **Give three characteristics of an entrepreneur.** *(3 marks)*

* Innovative
* Risk-taker
* Goal-oriented

1. **What is bookkeeping and why is it important?** *(2 marks)*

* Bookkeeping is the recording of financial transactions.
* It helps track income and expenses.

1. **List two sources of income for an individual.** *(2 marks)*

* Salary
* Business profits

1. **Explain the importance of budgeting.** *(2 marks)*

* Budgeting helps in controlling expenses and saving for future needs.

1. **List three types of business transactions.** *(3 marks)*

* Cash transactions
* Credit transactions
* Online transactions

1. **Identify two ethical practices in business communication.** *(2 marks)*

* Honesty in advertising
* Respect for customer privacy

1. **State three reasons why saving money is important.** *(3 marks)*

* Provides financial security
* Helps in emergencies
* Enables investment opportunities

1. **Give two methods of investment.** *(2 marks)*

* Buying shares in a company
* Investing in real estate

1. **List two cutting tools used in a workshop.** *(2 marks)*

* Hacksaw
* Chisel

1. **Explain one method of managing fire in a work environment.** *(2 marks)*

* Using fire extinguishers to control small fires before they spread.

1. **What is visual programming and give one example?** *(2 marks)*

* Visual programming is a method of programming that uses graphical elements instead of text-based coding.
* Example: Scratch