

TARGETER WINGS

KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT



GRADE 9 - 2025 PRE-TECHNICAL STUDIES



TIME: 1 hour 40 mins

Candidate's Name: _____
School: _____
Adm No: _____

Assessment Number _____
School Code _____
Date _____

KJSEA
912/1

PRE-TECHNICAL STUDIES THEORY INSTRUCTIONS TO LEARNERS

- Write your name and assessment number in the spaces provided above.
- Write the name and code of your school in the spaces provided above.
- Sign and write the date of the assessment in the spaces provided above.
- This paper consists of two sections: A and B.
- Section A comprises Multiple Choice Questions.
- Section B comprises Short Structured questions.
- Answer ALL the questions in section A on the separate ANSWER SHEET provided.
- Answer ALL the questions in section B in the spaces provided in this question paper.
- Do not remove any page from this question paper.
- Answer all questions in English.

SECTION A (30 marks)

Read the instructions carefully.

- You have been given this question paper and a separate answer sheet.
- Answer ALL questions in this section on the ANSWER SHEET provided, NOT in the question paper.
- On the answer sheets you have been provided write the following:
- YOUR ASSESSMENT NUMBER
- YOUR NAME
- NAME OF YOUR SCHOOL
- NAME OF THE SUBJECT
- Keep the answer sheet clean, dry and DO NOT fold it.
- For each of the questions 1 – 30, four options are given. The options are lettered A, B, C and D. In each case, only ONE of the four options is correct. Choose the correct answer from the options.
- On the answer sheet, the correct answer (letter) is to be written.

Example

- In the Question Booklet:** Choose the correct answer.
The following are unethical practices related to talents and abilities. Which one is not?
A. Cheating B. Being honest
C. Exploitation D. Plagiarism

The correct answer is 'B'.

On the answer sheet, write the letter B.

13. [A] [B] [C] [D]
For each question, ONLY ONE letter is to be written.

SECTION B (50 Marks)

Task																									
Question	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50					
Maximum Score per Task	3	3	3	3	3	3	3	2	2	2	3	3	2	2	1	4	3	3	1	1					
Candidate's Score per Task																									

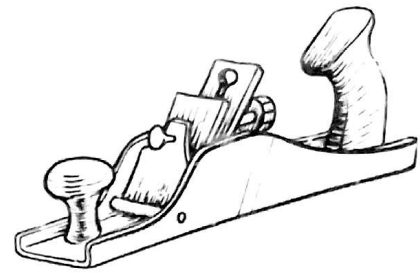
This paper consists of 8 printed pages.

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

SECTION A (30MARKS)

1. Otieno works in a factory that uses corrosive chemicals. What should he wear to protect himself?
A. Wear a helmet
B. Wear Earmuffs
C. Use safety gloves
D. Use safety goggles
2. Grade 7 learners were learning about drawing instruments and their uses. Which one of the following is **not** correctly matched with its use?
A. Protractor – used to measure angles
B. Set square – used for making right-angled objects
C. Pair of dividers – used for measuring and transferring distances
D. Pencil – used for shading only
3. Observing safety measures when working with farm tools can help to reduce accidents. Which one of the following is a good practice on cutting tools?
A. Making them blunt to avoid cutting yourself
B. Washing with soap and water after use
C. Storing them with sharp part facing up
D. Lubricating them regularly
4. Metals are widely used in the production of different items. Which property below makes iron metal most suitable for making household items such as jembes, pangas, and metallic doors?
A. It is shiny and attractive
B. It is a poor conductor of electricity
C. It is strong and can withstand force
D. It is light and bends easily
5. Grade 9 learners were shaping timber during a project to make a wooden stool. Which of the following tools is **best** suited for smoothing the top part of the stool?
A. Scraper
B. Chisel
C. Plane
D. Snips

6. Ceramics are commonly used in our environment. Which property below makes them suitable for items like cups, tiles, and sinks?
A. They are soft and flexible
B. They conduct electricity well
C. They can withstand high temperatures
D. They dissolve easily in water
7. Identify and name the cutting tool shown below.



- A. Chisel
B. Mallet
C. Tinsnips
D. Jackplane
8. Grade 8 learners were asked to name a method of fighting fire that works by cutting off oxygen from the burning substance. Which method were they learning?
A. Starving method
B. Smothering method
C. Cooling method
D. Interrupting method
9. Which one of the following is an advantage of learning Pre-Technical Studies in junior school?
A. It helps learners avoid using tools completely
B. It prepares learners for office desk jobs only
C. It helps learners gain practical and creative skills
D. It limits learners to one specific career path

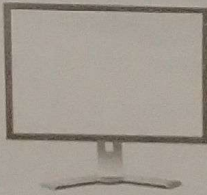
10. The tool shown below is commonly used in woodwork. What is its main purpose?



- A. Marking lines on wood
B. Cutting and shaping wood joints
C. Smoothing rough surfaces
D. Measuring angles accurately
11. Tools are categorized according to their use. Which pair of tools includes only marking tools?
A. Marking gauge and mallet
B. Chisel and scriber
C. Scribe and marking gauge
D. Try square and plane
12. Arianne drew a map of a rectangular plot of land using a plain scale where 1 cm represents 10 metres. If the drawing shows the plot as 5 cm long, what is the actual length of the plot?
A. 15 metres
B. 25 metres
C. 50 metres
D. 5 metres
13. Grade 8 learners were learning about different lines used in technical drawing. Which of the following lines is correctly matched with its common use?
A. Chain line – used to draw visible edges of objects
B. Continuous thick line – used to show outlines of objects
C. Leader line – used to draw hidden parts inside an object
D. Dimension line – used to show centre points of circles
14. During a field study, Grade 9 learners came across the symbol below at the entrance of a factory. What warning was being communicated by the symbol?

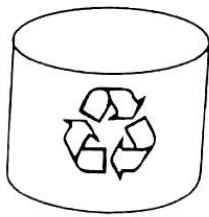


- A. Corrosive substances
B. Inflammable substances
C. Flammable substances
D. Sharp falling objects
15. Which one of the following is a safety practice when working on raised platforms?
A. Working barefoot for better grip
B. Placing tools loosely near the edge
C. Wearing a safety harness when working at height
D. Using broken ladders to save time
16. ICT tools play a major role in communication. Which of the following ICT tools is **best** for sending a message that includes images, short audio clips, and short video clips?
A. Email
B. Telephone
C. Fax machine
D. Radio
17. Which of the following is a good example of a passive source of income?
A. Working as a teacher in a school
B. Running a kiosk every day
C. Earning rent from a house you own
D. Repairing electronics for customers
18. Which of the following is an example of ethical behaviour in budgeting and spending?
A. Setting aside some money for savings while budgeting for basic needs
B. Spending all your money on things you want.
C. Using money meant for bills to invest in betting
D. Borrowing money to pay for a treat

19. Grade 8 learners were discussing bookkeeping terms during a Pre-technical Studies lesson. Which of the following is **not** a bookkeeping term?
- A. Invoice B. Receipt
C. Expense D. Marketing
20. In business, what is the main purpose of a balance sheet?
- A. To record daily sales and purchases
B. To show the income and expenses over a period of time
C. To display a business's assets, liabilities, and capital at a specific time
D. To list the goods available for sale in a business
21. An income statement in business summarizes a company's earnings, costs and profits or losses over a specific period. Which of the following best describes the purpose of an income statement?
- A. It shows whether the business made a profit or loss during a certain time
B. It lists the things the business owns
C. It tracks the business's money coming in and going out
D. It shows the business's financial situation at a certain point in time
22. Grade 9 learners were discussing ethics in business. Which of the following shows ethical behaviour in the distribution of goods and services?
- A. Delivering more goods to wealthier areas because they pay more
B. Distributing goods fairly to all customers regardless of their status
C. Delaying deliveries to small shops in favour of bigger supermarkets
D. Increasing prices during high demand to maximize profits.
23. During a class discussion on marketing in a Pre-Technical Studies lesson, Grade 9 learners were asked to name the main components of marketing. Which of the following is **not** one of the main components of marketing?
- A. Product B. Promotion
C. Price D. Profit
24. Learners at Bidji Junior School were learning about computer input devices. Which one below is one of the input devices they learnt?
- A. Printer
B. Monitor
C. Speaker
D. Mouse
25. During a pre-technical Studies lesson, Grade 8 learners discussed ways of protecting computer data. One method mentioned involved removing harmful software that can damage files. Which of the following was most likely to be their response?
- A. Installing antivirus software
B. Backing up data
C. Avoiding friend requests from strangers
D. Creating strong password
26. A young entrepreneur wants to buy a portable and fast-processing computer for managing business tasks such as record keeping and communication. Which type of computer would be most suitable for their needs?
- A. Super computer
B. Mainframe computer
C. Mini computer
D. Micro computer
27. During a discussion on computer hardware, learners were asked to name a device used to store data for future use. Which among the following is a storage device?
- A.  C. 
B.  D. 

28. Visual programming makes it easier for beginners to create computer programs. Which of the following **best** shows how visual programming works?
- A. Typing complex lines of code using a programming language
 - B. Writing instructions using only text editors
 - C. Using drag-and-drop blocks instead of typing long lines of code
 - D. Giving commands through voice recognition software
29. A learner wants to write and format an essay on a computer. Which of the following types of application software would be most suitable for this task?
- A. Word processing software
 - B. Spreadsheet software
 - C. Presentation software
 - D. Database software
30. Grade 9 learners were asked to come with their digital devices for a group activity in Pre-technical studies. Each group had created three different files. To keep the files organized, the teacher instructed them to place all three in one location. Which icon should they click to do this?

A.



B.



C.



D.



SECTION B

31. Grade 8 learners were discussing safety measures to observe in a work environment. List **three** of the safety measures they discussed. (3marks)

32. Learners at Bidii Junior school were told by their pre-technical teacher to name **three** physical threats to data. What response did they give? (3mks)

33. Grade 9 learners were discussing risks associated with raised platforms. Name **three** of the risks they mentioned. (3mks)

34. Draw and name any **three** personal protective equipment used in a work environment. (3mks)

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35. Cutting tools are essential in any work environment for shaping, sizing and preparing materials for further use. State one function of each of the following tools. (3mks)

a) Stripper

b) Scraper

c) Hacksaw.

36. Talents are very important in a learner's life as they help in personal growth and success. State **three** ways of nurturing your talents. (3mks)

37. Proper preparation of timber ensures its quality and durability. Give **three** benefits of seasoning timber before use. (3 marks)

38. Regular figures in geometrical drawings have sides of equal length, making them important for accurate designs. Identify **two** examples of regular geometric figures. (2 marks)

39. A handsaw is one of the tools used for general purposes.
a) Name one part of a handsaw.

(1 mark)

b) State one use of the tool.

(1 mark)

40. When deciding where to set up a factory, several factors need to be considered. Mention **two** factors that should be considered when choosing a location of a factory.

(2 marks)

41. Musa, a vegetable seller, recorded the following for the year ending 31st December 2024:

Sales for the year: Ksh 50,000

Cost of goods sold: Ksh 20,000

Rent expenses: Ksh 5,000

Wages: Ksh 8,000

Transport costs: Ksh 1,500

What is the Net Profit for Musa for the year ending 31st December 2024?

(3 mark)

42. State **three** advantages of bookkeeping in a business.

(3 marks)

43. During their business studies, Grade 9 learners came across the term "entrepreneurship." What definition or explanation would they **most** likely give for this term?

(2mks)

44. The government of Kenya needs to protect consumers from unfair practices. Name **two** ways in which the government can protect consumers. **(2 marks)**

45. When choosing how to communicate, there are various factors to consider. Name one factor to consider when selecting a channel of communication. **(1 mark)**

46. Learners in grade 7 were discussing components that make up a computer system. Name **four** components they mentioned. **(4marks)**

47. During a visit to a nearby computer lab, learners noticed several safety rules displayed on the wall. State **three** safety rules they might have seen. **(3 marks)**

48. Learners at Bidii Junior school were told by their teacher to state three threats to data in computer. What were their response? **(3mks)**

49. Visual programming is one of the methods used to create computer programs. Name one application that uses visual programming. **(1 mark)**

50. Name the computer fixed storage device shown below. **(1mark)**

