

KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT (KJSEA)
2026 PRE-TECHNICAL STUDIES — PREDICTION EXAMINATION
(Modelled on the KNEC KJSEA format — original, unofficial revision paper)

Name: _____

Admission / Index Number: _____ Class: _____

School: _____ Date: _____

Instructions to candidates

1. Write your name, index number and school in the spaces provided above.
2. This paper consists of two sections: A and B.
3. Answer ALL the questions in section A and section B.
4. Answer section A questions on the grid provided on page 2.
5. Answer section B questions in the spaces provided after each question.
6. All working must be shown in the spaces provided.
7. This paper consists of 14 printed pages. Candidates should check to ascertain that all pages are printed and no questions are missing.

For Examiner's Use Only

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDA
A	1 – 30	30	
B	31 – 50	50	
TOTAL		80	

SECTION A — ANSWER GRID

Shade or tick the letter that matches your chosen answer for each question.

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

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SECTION A (30 marks)

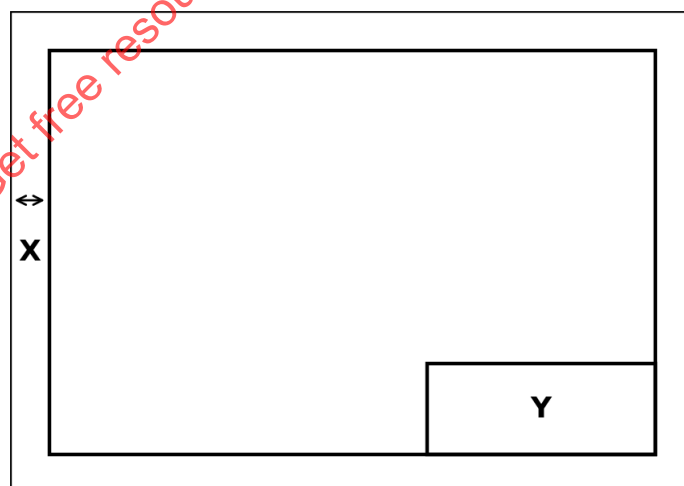
Answer ALL the questions in this section on the grid provided on page 2.

1. A person who designs plans for construction of buildings is known as a
 - A. builder
 - B. architect
 - C. surveyor
 - D. contractor
2. Wearing protective clothing while working in a school workshop is mainly meant to
 - A. prevent occurrence of injuries
 - B. improve the appearance of learners
 - C. reduce noise in the workshop
 - D. help learners complete work faster
3. Study the drawing below then identify the type of drawing shown.



- A. Artistic drawing
- B. Technical drawing
- C. Freehand sketch
- D. Orthographic drawing

4. Study the technical drawing sheet layout below. Use it to answer questions 4 and 5. The distance marked X all round the sheet is known as the



- A. draft
 - B. drift
 - C. margin
 - D. outline
5. The area marked Y on the same drawing sheet layout is the
 - A. title margin
 - B. title block

- C. title layout
- D. name block

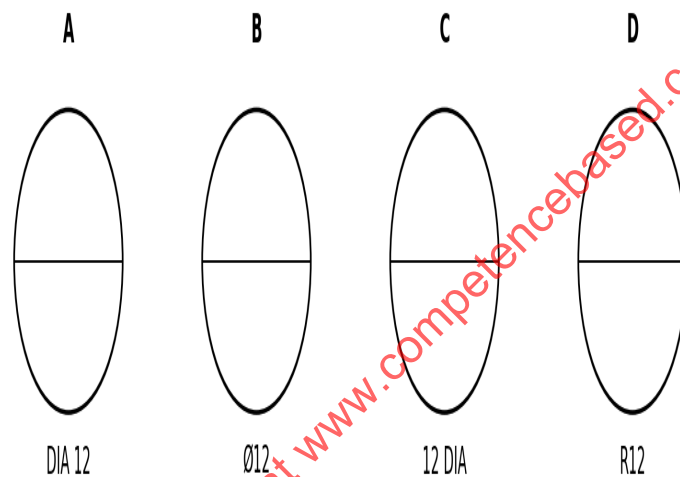
6. A learner wants to measure the internal diameter of a metal pipe. Which of the following tools is most appropriate to use?

- A. Try square
- B. Vernier calliper
- C. Steel rule
- D. Tape measure

7. Oil in a frying pan caught fire in a school kitchen. A cook covered the pan with a damp cloth to put out the fire. Identify the method of extinguishing fire used.

- A. Cooling
- B. Smothering
- C. Starving
- D. Interrupting

8. Study the methods of dimensioning a circle of diameter 12 mm shown below. Which one is dimensioned correctly?



- A. As shown in A
- B. As shown in B
- C. As shown in C
- D. As shown in D

9. Which of the following statements correctly describes what a scale is in technical drawing?

- A. The type of instrument used to draw an object
- B. The ratio of the dimensions of a drawing to the actual dimensions of the object
- C. The size of the paper on which a drawing is made
- D. The angle at which a drawing is projected

10. Which of the following correctly describes an orthographic drawing?

- A. It shows an object as it appears in three dimensions from one viewing point
- B. It shows the different views of an object projected onto planes at right angles to each other
- C. It shows an object drawn freehand without the use of instruments
- D. It shows an object at an angle of 45° on all sides

11. A carpenter used a G-clamp to carry out a certain task. The G-clamp was mainly used to

- A. measure the work-piece
- B. hold the work-piece firmly in position
- C. smoothen the surface of the work-piece
- D. mark out the work-piece

12. A learner noticed that a shelf was fastened using a nut and bolt. Which tool is most appropriate for loosening the nut?

- A. Pliers
- B. Spanner

- C. Screwdriver
- D. Pincers

13. Safety should be observed when working on a raised platform. Which of the following is a source of risk associated with such platforms?

- A. Using a new platform
- B. Working alongside a helper
- C. Using an unstable platform
- D. Working during daytime

14. A welder set up a jua kali workshop next to a busy road junction in town. Which of the following factors least influenced the choice of this location?

- A. Level of competition
- B. Accessibility to customers
- C. Colour of the workshop
- D. Availability of transport

15. Amani has completed a course in tailoring and intends to start a business. Which of the following would be a suitable source of her business ideas?

- A. Fashion magazines
- B. Sports newspapers
- C. Weather reports
- D. Population census reports

16. Which of the following should a headteacher avoid while preparing a school budget?

- A. Involving stakeholders in the process
- B. Considering past expenditure items
- C. Ensuring budget deficits are ignored
- D. Monitoring the preparation process

17. Kiptoo has grown tomatoes and is looking for a market for them. Which set of factors would most influence his choice of market?

- A. Market size, competition and customer preference
- B. Salaries, competition and hobbies
- C. Interests, political stability and market size
- D. Customer preference, hobbies and weather

18. Which of the following is not an example of an intermediary in the distribution of goods and services?

- A. Wholesaler
- B. Retailer
- C. Manufacturer
- D. Agent

19. Amina, a Grade 8 learner, is talented in drawing and painting and always decorates the classroom during school events. The school can best nurture her talent by

- A. emphasizing on good grades only
- B. assigning a mentor to guide her in art
- C. discouraging her from taking part in art activities
- D. focusing only on academic contests

20. A school was supplied with packets of milk by a dairy company and some were found to have expired. The government can regulate such businesses by

- A. reducing taxes charged to the business
- B. ensuring that standards of goods are maintained
- C. removing business licence fees
- D. allowing the business to regulate itself

21. A learner saved an assignment on a computer and later moved it to another computer using a flash disk. A flash disk is an example of a

- A. fixed storage device
- B. primary storage device

- C. removable storage device
D. main storage device
22. A learner sent an assignment to a teacher as an attachment through email. This email feature is called
- A. forwarding
 - B. attaching a file
 - C. inserting a link
 - D. replying
23. A teacher asked learners to discuss computers that are built into machines such as washing machines and microwave ovens. These computers are referred to as
- A. general purpose computers
 - B. embedded computers
 - C. mainframe computers
 - D. supercomputers
24. The table below shows classification of financial institutions in Kenya. Select the one that is correctly classified.
- A. Equity Bank — Non-banking institution
 - B. Kenya Post Office Savings Bank — Banking institution
 - C. Kenya Tea Development Agency — Banking institution
 - D. Cooperative Bank — Non-banking institution
25. A company intends to dispose of computers it no longer uses. Which of the following is not an appropriate way of disposing them?
- A. Donating them to a school
 - B. Recycling the parts
 - C. Dumping them in an open field
 - D. Selling them to a licensed e-waste collector
26. A trader wants to protect data stored in a laptop against unauthorised access. Which of the following is the most appropriate way of protecting the data?
- A. Installing antivirus software
 - B. Using a strong password
 - C. Switching off the laptop when not in use
 - D. Keeping the laptop in a bag
27. Grade 9 learners prepared the table below on computer software and their functions. Identify the software that is correctly matched with its function.
- A. Word processor — preparing slides for a class presentation
 - B. Spreadsheet — analysing examination scores
 - C. Presentation software — typing a school report
 - D. System software — sending emails to parents
28. Learners identified the following substances in a school laboratory: (i) petrol (ii) chalk dust (iii) methylated spirit (iv) water. Which two are flammable substances?
- A. (i) and (iii)
 - B. (ii) and (iv)
 - C. (i) and (iv)
 - D. (ii) and (iii)
29. Which of the following statements describes the function of the 'Motion' coding blocks in visual/block-based programming?
- A. Changes the appearance of the sprite
 - B. Plays sound when the program runs
 - C. Controls the movement of the sprite
 - D. Changes the background colour of the stage
30. A carpenter wants to join two pieces of wood at a corner to make a box that will resist being pulled apart. Which of the following joints would be most appropriate?
- A. Dovetail joint
 - B. Butt joint

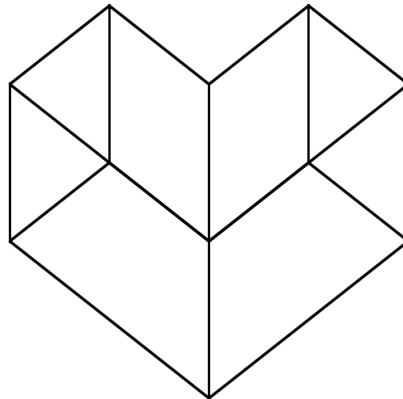
- C. Halving joint
- D. Lap joint

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SECTION B (50 marks)

Answer ALL the questions in this section in the spaces provided after each question.

31. The drawing below shows a wooden mallet drawn in isometric projection.



. Sketch the mallet in oblique projection.

(3 marks)

32. A timber yard stores both softwood and hardwood for sale.
(a) Name two examples of softwood likely to be found in the yard.

(2 marks)

(b) Logs of wood are converted into timber using various methods. State two such methods.

(2 marks)

33. A carpenter used seasoned timber to make a chair. State two methods that could have been used to season the timber.

(2 marks)

34. Accidents may occur in a school workshop and cause injury to learners. Give two ways of preventing such accidents.

(2 marks)

35. Using geometrical instruments, construct a regular hexagon of side 3 cm.

(3 marks)

36. Learners visited a hospital to observe the use of ceramic materials in the building. Name two areas in the building where ceramic materials may have been used.

(2 marks)

37. Grade 8 learners visited a motor vehicle garage to learn about safety. List three hazards to personal safety that the learners may have learnt about.

(3 marks)

38. Draw the following types of lines to a length of 5 cm.

(a) Hidden (dashed) line

(1 mark)

(b) Cutting-plane line

(1 mark)

39. Grade 9 learners toured a construction site to identify items made of metallic materials.

(a) Name two items the learners may have identified.

(2 marks)

(b) Name two types of metals that may have been used to make the items in (a) above.

(2 marks)

40. The government of Kenya encourages the use of the e-Citizen platform to access public services. State three benefits of this platform to members of the public.

(3 marks)

41. Farida wants to travel abroad to market her company's products at a trade fair. State two services that a commercial bank may offer her before and during the trip.

(2 marks)

42. Otieno intends to start a business of selling farm produce within his estate. Give two reasons why he needs to prepare a business plan before starting the business.

(2 marks)

43. As the treasurer of a school Young Farmers Club, you are provided with the following balances as at 31st July, 2026:

Cash in hand	Ksh 8,000
Cash at bank	Ksh 10,000
Capital	Ksh 18,000
Loan	Ksh 3,000
Stock	Ksh 5,000
Creditors	Ksh 2,000

Prepare the statement of financial position for the club as at 31st July, 2026.

(3 marks)

44. A learner was given Ksh 500 as transport allowance for a school trip. State two factors the learner should consider when setting a budget for the allowance.

(2 marks)

45. Grade 9 learners made a flower vase using waste plastic bottles collected from the school compound. Which method of waste disposal did the learners use?

(1 mark)

46. Grade 7 learners visited a computer laboratory to assist in setting up newly purchased computers.

(a) State two safety precautions the learners should observe while performing the task.

(2 marks)

(b) Name the characteristic of computers that enables them to perform tasks repeatedly without getting tired.

(1 mark)

47. The following are keys found on a computer keyboard. State the function of each key.

(a) Caps Lock

(1 mark)

(b) Tab

(1 mark)

48. Name the device used to input sound into a computer.

(1 mark)

49. A group of Grade 9 learners were given a task involving handling of corrosive substances in a laboratory. Name two personal protective equipment they may have used when handling the substances.

(2 marks)

50. (a) The following paragraph was typed using a word processing application:

Time management is the ability to plan and control how you spend the hours in your day.

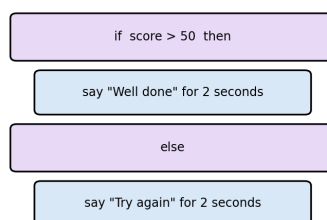
Good time management enables you to accomplish more in a shorter period of time. It also helps you to:

- lower stress
- focus better
- become more successful

Identify two formatting features applied to the paragraph.

(2 marks)

. (b) The following instructions were created using a visual/block programming application:



(i) Identify one variable used in the instructions.

(1 mark)

(ii) State the selection statement used in creating the instructions.

(1 mark)

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