



**GOLDLITE ONLINE SUPPLIES**

*Kenya Junior School Education Assessment (KJSEA)*



**KJSEA SMARFOCUS QUICK REVISION SERIES**

## **PRE-TECHNICAL STUDIES**

### **SERIES 1-17**

*For marking schemes and printable word documents inbox 0724351706*

#### **WE ALSO HAVE THE FOLLOWING**

- 1. CBC updated notes all grades**
- 2. CBC schemes of work all grades**
- 3. CBC topical series all grades**
- 4. CBC lesson plans all grades**
- 5. CBC assessment report book all grades**
- 6. Senior school topical exams**
- 7. Senior school updated notes**
- 8. Senior school schemes of work**
- 9. Senior school lesson plans**
- 10. Quick revision series 2025**
- 11. Top national schools' trials**
- 12. Prediction series 2025**
- 13. KCSE replica series 2025**
- 14. Termly exams 2025**

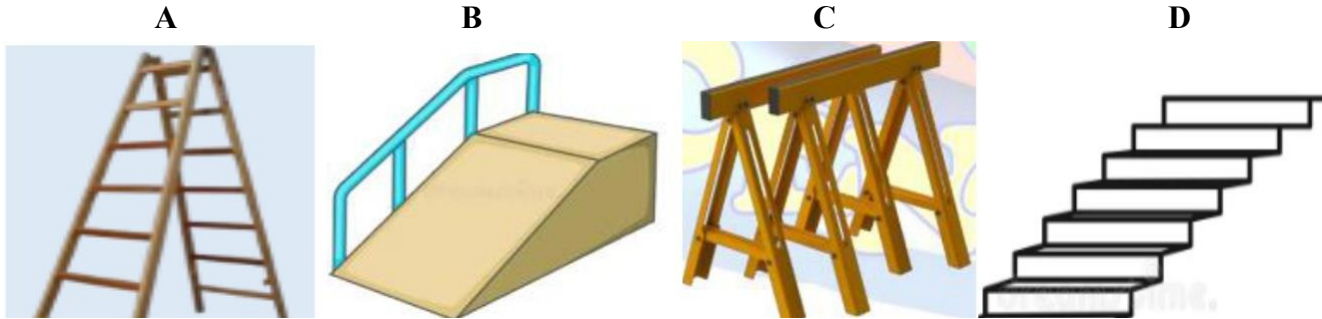
**For these and more inbox/text / whatsapp  
0724351706/0726960003**

## SERIES 1

1.

a.) Name the following raised platforms.

(4mks)



A \_\_\_\_\_  
B \_\_\_\_\_  
C \_\_\_\_\_  
D \_\_\_\_\_

b.) State **three** safety measures to observe when using the raised platforms above.

(3mks)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

c.) Give **two** importance of observing safety when using raised platforms.

(2mks)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2.

a.) Give **three** characteristics of computers.

(3mks)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

b.) State **three** ways one can use to secure data in an electronic device.

(3mks)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3.

a.) Name **four** drawing instruments.

(4mks)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

b.) Define the term dimensioning.

(2mk)

\_\_\_\_\_  
\_\_\_\_\_

c.) State the **three** types of dimensioning.

(3mks)

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4.

a.) What is free hand sketching?

(2mks)

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b.) List down any **four** instruments used in free hand sketching.

(4mks)

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c.) Grade 7 learners were practicing different freehand drawing techniques. Name the **two** techniques shown by the pictures they drew below.

(2mks)

**Technique H**



**Technique P**



5. Give **three** ways we can sustainably use economic resources.

(3mks)

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6. Giving **one** example in each, State the **two** categories of computer output devices.

(4mks)

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7. Name **three** examples of visual programming applications.

(3mks)

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8.

a.) Define the term entrepreneur.

(2mks)

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b.) Give **four** ICT tools used in marketing of good and services.

(4mks)

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c.) What is impulsive buying?

(2mks)

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## **SERIES 2**

### **SECTION A: (30 marks)**

- 1. In a busy office environment, employees handle sensitive customer data daily. What is the best way to protect this data from cyber threats?**
  - A. Using weak passwords
  - B. Sharing login details
  - C. Installing antivirus software
  - D. Leaving computers unlocked
- 2. John is a Grade 8 student who wants to learn more about Pre-Technical Studies. Which of the following is NOT a component of Pre-Technical Studies?**
  - A. Technical Studies B. Computer Studies
  - C. Physical Education D. Business Studies
- 3. A technician needs to measure the diameter of a small metal rod with high accuracy. Which tool should they use?**
  - A. Tape measure B. Vernier caliper
  - C. Ruler D. Protractor
- 4. A young entrepreneur wants to start a small business selling handmade crafts. What is their primary function in this role?**
  - A. To close businesses
  - B. To take financial risks and innovate
  - C. To work for others
  - D. To avoid competition
- 5. An architect is designing a new shopping mall. Which document will they use to present their detailed plans?**
  - A. Cooking recipe
  - B. Technical drawing blueprint
  - C. Sports training manual
  - D. Computer program
- 6. A school is purchasing new equipment for its computer lab. Which of the following is an example of an output device?**
  - A. Keyboard B. Mouse
  - C. Printer D. Scanner
- 7. A small retail store wants to keep track of daily sales and expenses. What is the primary role of bookkeeping in their business?**
  - A. Track financial transactions
  - B. Control employee salaries

C. Increase business losses

D. Decorate office spaces

**8. A farmer is looking for a natural resource that can be replenished over time. Which of the following is a renewable economic resource?**

A. Coal

B. Water

C. Gold

D. Diamond

**9. During a business workshop, a speaker advises entrepreneurs to be financially responsible. What should a responsible entrepreneur do?**

A. Spend money recklessly

B. Ignore customer needs

C. Take calculated risks

D. Avoid innovation

**10. A fire breaks out in a small workshop. What is the purpose of a fire extinguisher in this situation?**

A. To start fires

B. To control and put out fires

C. To heat workplaces

D. To store chemicals

**11. A company wants to secure its important business documents. What is the best method to store them safely?**

A. Leaving them on a desk

B. Saving them in a cloud storage system

C. Handing them to unauthorized persons

D. Writing them on loose papers

**12. A manufacturer combines carbon fiber and plastic to create a stronger material. What is this type of material called?**

A. A composite material   B. A natural element

C. A non-metallic item   D. A single solid metal

**13. A shopkeeper receives new banknotes while making a transaction. Which institution is responsible for issuing Kenyan currency?**

A. Kenya Commercial Bank

B. Central Bank of Kenya

C. Small-scale traders

D. Financial institutions

- 14. While learning about money in a business class, students discuss its roles. Which of the following is NOT a function of money?**
- A. Medium of exchange
  - B. Store of value
  - C. Unit of account
  - D. Increasing inflation
- 15. A business owner is concerned about cyber threats and data security. What is the best way to prevent cyber threats?**
- A. Share personal information online
  - B. Install security software and avoid phishing scams
  - C. Use weak passwords
  - D. Click on unknown links
- 16. A factory is selecting materials for production. Which of the following is an example of a non-metallic material?**
- A. Copper
  - B. Aluminium
  - C. Plastic
  - D. Iron
- 17. An engineer wants to present a new machine design to a company. What is the main function of technical drawing?**
- A. Communicate ideas visually
  - B. Create music
  - C. Improve sports performance
  - D. Cook food
- 18. A company needs to send an urgent business update to its suppliers. What is the best communication method for this purpose?**
- A. Postal letters
  - B. Emails
  - C. Face-to-face meetings
  - D. Telephone calls
- 19. A business owner is investing in equipment and infrastructure. Which of the following is an example of fixed capital?**
- A. Money in a bank
  - B. Office furniture
  - C. Raw materials
  - D. Monthly salaries
- 20. A business wants to grow its customer base. What is the main reason for marketing goods and services?**

- A. Increase customer awareness and boost sales
- B. Reduce competition
- C. Limit product availability
- D. Discourage entrepreneurship

**21. In a chemistry lab, students are working with flammable substances. What is the safest way to store these materials?**

- A) Keeping them near electrical appliances
- B) Storing them in a cool, dry place
- C) Leaving them uncovered for easy access
- D) Mixing them with non-flammable materials

**22. A student is learning about computer components. Which of the following is an example of an input device?**

- A) An output device
- B) An input device
- C) A storage device
- D) A processing device

**23. A draftsman is preparing a technical drawing. Which of the following is a method of dimensioning?**

- A) Freehand sketching
- B) Oblique drawing
- C) Parallel dimensioning
- D) Isometric projection

**24. A manager wants to improve communication in the workplace. What is one function of communication in this environment?**

- A) Reducing customer complaints
- B) Enhancing teamwork and decision-making
- C) Increasing product prices
- D) Eliminating competition

**25. A business is setting goals for the upcoming financial year. Which of the following is NOT a financial goal?**

- A) Profit maximization
- B) Increasing costs unnecessarily
- C) Reducing expenses
- D) Expanding the business

**26. A financial analyst explains who regulates money supply in Kenya. Who controls the Kenyan currency?**

- A) County governments

B) Central Bank of Kenya

C) Ministry of Trade

D) Commercial banks

**27. A plastic manufacturing company produces everyday household items. Which of the following is a synthetic non-metallic material?**

A) Glass

B) Leather

C) Plastic

D) Wood

**28. A company wants to protect customer data from hackers. What is the best way to reduce cyber threats in a business?**

A) Installing updated antivirus software

B) Using public Wi-Fi for transactions

C) Sharing passwords with all employees

D) Storing customer data on unsecured websites

**29. During a communication workshop, a trainer asks students to identify the correct process of communication. Which option is correct?**

A) Sender → Receiver → Message → Feedback

B) Message → Receiver → Sender → Feedback

C) Sender → Message → Receiver → Feedback

D) Receiver → Message → Sender → Feedback

**30. A restaurant kitchen experiences an electrical fire. Which type of fire extinguisher should be used?**

A) Paper and wood fires

B) Oil and grease fires

C) Electrical fires

D) All types of fires

## **SECTION B (50 Marks)**

**Answer all questions in the spaces provided.**

**31. (2 Marks)** Define the term **entrepreneurship** and give one characteristic of a good entrepreneur.

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**32. (3 Marks)** State three **functions of money** in an economy.

a) \_\_\_\_\_



- b) \_\_\_\_\_  
c) \_\_\_\_\_
33. **(2 Marks)** Mention two ways of preventing **fire hazards** in the workplace.  
a) \_\_\_\_\_  
b) \_\_\_\_\_
34. **(3 Marks)** Explain three characteristics of **a good business idea**.  
a) \_\_\_\_\_  
b) \_\_\_\_\_  
c) \_\_\_\_\_
35. **(2 Marks)** Differentiate between **metallic** and **non-metallic** materials.
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36. **(3 Marks)** List three **examples of input devices** in a computer system.  
a) \_\_\_\_\_  
b) \_\_\_\_\_  
c) \_\_\_\_\_
37. **(2 Marks)** Name two **types of business transactions** in Kenya.  
a) \_\_\_\_\_  
b) \_\_\_\_\_
38. **(3 Marks)** Identify three reasons why saving money is important.  
a) \_\_\_\_\_  
b) \_\_\_\_\_  
c) \_\_\_\_\_
39. **(2 Marks)** Define **technical drawing** and state its importance in engineering.
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40. **(3 Marks)** State three **roles of an entrepreneur in business development**.  
a) \_\_\_\_\_  
b) \_\_\_\_\_

## SERIES 3

### SECTION A: (30 Marks)

Answer all questions in this section

1. Which of the following is NOT a safety precaution in the work environment?



- A. Wearing safety gear
  - B. Using damaged tools
  - C. Keeping the workplace clean
  - D. Following safety guidelines
2. Which of the following is an example of an online threat?
- A. Firewall protection
  - B. Phishing scams
  - C. Data backup
  - D. Using strong passwords
3. What is the function of a VGA cable when connecting a projector?



- A. Transmitting power
  - B. Transmitting video signals
  - C. Providing internet connection
  - D. Transmitting audio signals
4. Which of the following is NOT a type of artistic drawing?
- A. Graffiti
  - B. illustrations

- C. mechanical
- D. Portrait
- 5. The best measuring tool for checking the diameter of a pipe is:
  - A. Tape measure
  - B. Vernier caliper
  - C. Protractor
  - D. Ruler
- 6. One function of money is:
  - A. To be used as decoration
  - B. To be a medium of exchange
  - C. To increase inflation
  - D. To control economic resources
- 7. Which of the following is an example of a non-metallic material?
  - A. Aluminum
  - B. Copper
  - C. Rubber
  - D. Iron
- 8. Which fire extinguisher is used for electrical fires?



- A. Water
  - B. Foam
  - C. Carbon dioxide (CO<sub>2</sub>)
  - D. Sand
9. Which of the following is NOT a function of an input device?
  - A. Entering data into a computer
  - B. Processing data
  - C. Scanning documents
  - D. Typing text
10. Which of the following is an example of a storage device?
  - A. Printer
  - B. USB flash drive
  - C. Monitor
  - D. Keyboard
11. What is the function of a CPU in a computer?



- A. Input data
  - B. Process information
  - C. Store permanent files
  - D. Display images
12. Which of the following is a cause of fire in the workplace?
- A. Proper storage of chemicals
  - B. Overloading electrical sockets
  - C. Using fire extinguishers
  - D. Regular fire drills
13. The two main categories of economic resources are:
- A. Natural and human resources
  - B. Expensive and cheap resources
  - C. Renewable and unlimited resources
  - D. Solid and liquid resources
14. Which of the following is NOT a measuring tool?
- A. Ruler      B. Tape measure
  - C. Vernier caliper      D. Hammer
15. Which type of business transaction involves exchanging goods for money?
- A. Barter trade
  - B. Credit purchase
  - C. Cash transaction
  - D. Lease agreement
16. What is the main use of a protractor in technical drawing?
- A. Measuring angles
  - B. Drawing straight lines
  - C. Measuring length
  - D. Sharpening pencils
17. Which of the following is an ethical practice in communication?
- A. Spreading false information
  - B. Respecting confidentiality
  - C. Ignoring customer feedback
  - D. Using abusive language
18. What is the main purpose of budgeting?
- A. To overspend money
  - B. To plan income and expenses
  - C. To increase borrowing
  - D. To reduce income
19. Which factor should be considered when choosing a business location?



- A. Popularity of the owner
  - B. Distance from competitors
  - C. Availability of customers
  - D. The type of clothing worn by workers
20. What is a composite material?
- A. A natural material like wood
  - B. A material made by combining two or more different materials
  - C. A soft metallic material
  - D. A type of raw clay
21. Which of the following is a non-metallic material?
- A. Gold      B. Silver
  - C. Plastic    D. Copper
22. Which of the following is NOT an investment method?
- A. Buying shares
  - B. Saving in a bank
  - C. Spending all your income
  - D. Purchasing real estate
23. What is the purpose of book-keeping in a business?
- A. To record financial transactions
  - B. To make business losses
  - C. To increase employee salaries
  - D. To buy more stock
24. Which of the following is a function of money?
- A. It is used for decoration
  - B. It is a store of value
  - C. It increases inflation
  - D. It reduces trade
25. What is the importance of marketing goods and services?
- A. To increase business profits
  - B. To reduce competition
  - C. To avoid selling products
  - D. To close down the business
26. Which of the following is a method of saving?
- A. Gambling
  - B. Investing in land
  - C. Opening a savings account
  - D. Spending all income

27. Which of the following is a factor of production?  
A. Fashion  
B. Capital  
C. Weather  
D. Music
28. What is the best communication channel for urgent business information?  
A. Letter  
B. Telephone  
C. Newspaper  
D. Billboard
29. Which of the following is an output device?  
A. Scanner  
B. Keyboard  
C. Printer  
D. Mouse
30. What is the main role of an investor?  
A. To keep money at home  
B. To make profits by investing in businesses  
C. To buy luxurious items  
D. To reduce production

**SECTION B: (50 Marks)**

31. **(2 Marks)** Define online threats and give one example.

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32. **(3 Marks)** Explain three safety measures in the work environment.

- a. \_\_\_\_\_  
b. \_\_\_\_\_  
c. \_\_\_\_\_

33. **(3 Marks)** State three functions of money in an economy.

- a. \_\_\_\_\_  
b. \_\_\_\_\_  
c. \_\_\_\_\_

34. **(2 Marks)** Mention two ways of preventing fire outbreaks in a workplace.

- a. \_\_\_\_\_  
b. \_\_\_\_\_

35. **(2 Marks)** Differentiate between metallic and non-metallic materials.

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36. **(2 Marks)** Identify two factors to consider when selecting a communication channel.

- a. \_\_\_\_\_  
b. \_\_\_\_\_

37. **(3 Marks)** Explain three characteristics of a good entrepreneur.

- a. \_\_\_\_\_  
b. \_\_\_\_\_  
c. \_\_\_\_\_

38. (2 Marks) Give two ethical practices in business communication.

- a. \_\_\_\_\_
- b. \_\_\_\_\_

39. (3 Marks) Explain three reasons why saving money is important.

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

40. (2 Marks) Define bookkeeping and state one of its functions.

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41. (3 Marks) Mention three types of drawing lines used in technical studies.

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

42. (2 Marks) What is plane geometry, and give one example of its application?

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43. (3 Marks) State three roles of visual programming in ICT.

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

44. (2 Marks) Name two cutting tools used in pre-technical studies.

- a. \_\_\_\_\_
- b. \_\_\_\_\_

45. (3 Marks) List three functions of Kenyan money.

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

46. (2 Marks) Differentiate between input and output devices in a computer.

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47. (3 Marks) Identify three sources of income for individuals.

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

48. (2 Marks) Mention two methods of investment.

- a. \_\_\_\_\_
- b. \_\_\_\_\_

49. (3 Marks) Describe three types of business transactions in Kenya.

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

50. (2 Marks) Explain the importance of marketing in a business.

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

## **SERIES 4**

### **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)**

21. State two safety measures to follow in a workshop. (2 marks)

- a. \_\_\_\_\_
- b. \_\_\_\_\_

22. Define phishing and give one example. (2 marks)

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

- a. \_\_\_\_\_
- b. \_\_\_\_\_

24. Name two functions of money. (2 marks)

- a. \_\_\_\_\_
- b. \_\_\_\_\_

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

- a. \_\_\_\_\_
- b. \_\_\_\_\_

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

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

- a. \_\_\_\_\_
- b. \_\_\_\_\_

28. Mention two functions of business communication. (2 marks)

- a. \_\_\_\_\_
- b. \_\_\_\_\_

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

- a. \_\_\_\_\_
- b. \_\_\_\_\_

30. Give three characteristics of an entrepreneur. (3 marks)

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

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

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

- a. \_\_\_\_\_
- b. \_\_\_\_\_

33. Explain the importance of budgeting. (2 marks)

- a. \_\_\_\_\_
- b. \_\_\_\_\_

34. List three types of business transactions. (3 marks)

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

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

- a. \_\_\_\_\_
- b. \_\_\_\_\_

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

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

37. Give two methods of investment. (2 marks)

- a. \_\_\_\_\_
- b. \_\_\_\_\_

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

- a. \_\_\_\_\_
- b. \_\_\_\_\_

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

- a. \_\_\_\_\_
- b. \_\_\_\_\_

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

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1.

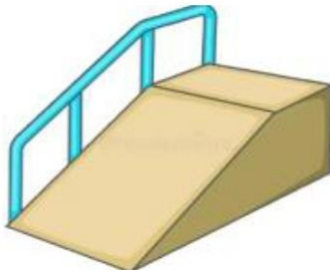
a.) Name the following raised platforms.

(4mks)

A



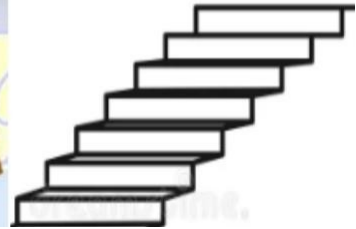
B



C



D



A \_\_\_\_\_  
B \_\_\_\_\_  
C \_\_\_\_\_  
D \_\_\_\_\_

b.) State **three** safety measures to observe when using the raised platforms above.

(3mks)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

c.) Give **two** importance of observing safety when using raised platforms.

(2mks)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2.

a.) Give **three** characteristics of computers.

(3mks)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

b.) State **three** ways one can use to secure data in an electronic device.

(3mks)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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3.

a.) Name **four** drawing instruments.

(4mks)

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b.) Define the term dimensioning.

(2mk)

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c.) State the **three** types of dimensioning.

(3mks)

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4.

a.) What is free hand sketching?

(2mks)

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b.) List down any **four** instruments used in free hand sketching.

(4mks)

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c.) Grade 7 learners were practicing different freehand drawing techniques. Name the **two** techniques shown by the pictures they drew below.

(2mks)

**Technique H**



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**Technique P**



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5. Give **three** ways we can sustainably use economic resources.

(3mks)

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6. Giving **one** example in each, State the **two** categories of computer output devices.

(4mks)

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7. Name **three** examples of visual programming applications.

(3mks)

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8.

a.) Define the term entrepreneur.

(2mks)

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b.) Give **four** ICT tools used in marketing of good and services.

(4mks)

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c.) What is impulsive buying?

(2mks)

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## **SERIES 6**

### **PAPER 1**

#### **SECTION A: (30 MARKS) ANSWER ALL QUESTIONS**

1. Catherine is using the device below to study about safety of digital devices. Study and choose its name from the list below.



- A. Smart phone
  - B. Laptop
  - C. Desktop
  - D. Mouse
2. A learner is designing a PowerPoint presentation on online threats to digital devices. Identify the odd one out from the list below.
- A. Phishing
  - B. Keyboard
  - C. Impersonation
  - D. Cyberbullying
3. Gitau and Kassim are discussing about the advantages of using computers in performing everyday tasks. Which amongst the list below is not an advantage of using them?
- A. Accuracy
  - B. Reliability
  - C. Speed
  - D. Easily available
4. Study the digital device below and answer the question that follow.



- A. Mouse
  - B. Keyboard
  - C. Desktop
  - D. System Unit
5. Which type of computer is known for its powerful processing capabilities and is often used for complex scientific calculations and simulations?

- A. Laptop
- B. Smartphone
- C. Supercomputer
- D. Tablet

5. Muthengi wants to create an animation for educational purposes. Identify the type of visual programming application he is likely to use. A. Dataflow programming

- A. Dataflow programming
- B. Block-based programming
- C. Node-based programming
- D. Spreadsheet programming

6. Which type of drawing shows multiple views of an object, such as the front, top, and side views?

- A. Isometric drawing
- B. Perspective drawing
- C. Orthographic drawing
- D. Oblique drawing

7. James has bought the following marking tool for her Grade 9 son. Study and name it

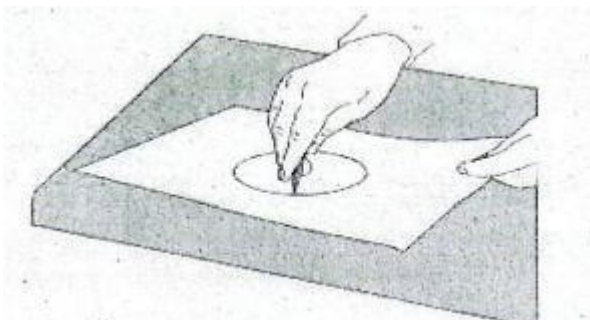


- A. Pencil
- B. Ruler
- C. Paint brush
- D. Compass

9. Mr. Muuo is planning to teach a Grade 7 learner techniques of free-hand sketching. Which among the following is not a fundamental technique in freehand sketching?

- A. Using a ruler for precise lines
- B. Light sketching for initial outlines
- C. Observing proportions and perspective
- D. Shading and cross-hatching for depth

10. An artist is drawing an image using the method | 16. Study the image below and answer the question shown below. Identify this technique.





- A. Box method
- B. Centerline method
- C. Hand compass method
- D. Hatching

11. Muriithi and his friends are discussing about the principles of free-hand sketching. Which amongst the competency below are they likely to acquire?

- A. Digital literacy
- B. Learning to learn
- C. Communication and collaboration
- D. Creativity and innovation

12. Amelia and John want to informal exchange of conversation. Identify the ICT tool that will lead to quick exchange.

- A. Email
- B. Video conferencing
- C. Instant messaging
- D. Formal letters

13. Study the application shown below and answer the question that follows.



Identify the type of communication facilitated by the above ict tool of communication

- A. One-to-one
- B. One-to-many
- C. Many-to-many
- D. One to all

14. Which tool is essential for accessing information and resources on the World Wide Web?

- A. Word processor
- B. Spreadsheet software
- C. Web browser
- D. Presentation software

15. Which metal is known for its high resistance to corrosion and is often used in kitchen utensils and medical equipment?

- A. Copper
- B. Stainless steel
- C. Cast iron

D. Zinc

16. Study the image below and answer the question that follows. Identify the material used in making these electrical cables.

A. Iron

B. Aluminum

C. Copper

D. Lead

17. Katerina wants to measure the size of holes for fencing poles. Identify the measuring instruments among the list below she can use.

A. Tape measure

B. Vernier calipers

C. String

D. Voltmeter

18. A school purchased the laboratory instrument shown below. Study it and choose its identity among the list below.



A. Capacitor

B. Steel rule

C. Ammeter

D. Voltmeter

19. Calvin and Juma are discussing the use of a divider. Which among the statements below best suites its purpose?

A. To measure the thickness of a material

B. To mark a line parallel to the edge of a material

C. To draw a circle

D. To check if a surface is level

20. Fiona has improvised a measuring meter ruler using locally available materials. Which among the competencies below has she demonstrated?

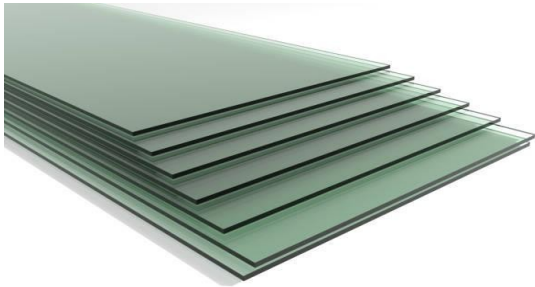
A. Creativity and innovation

B. Communication and collaboration

C. Digital literacy

D. Learning to learn

21. Viable business idea may come up in a variety of ways. Which of the following is not typically considered a source of business ideas?
- A. Hobbies and interests
  - B. Personal experiences
  - C. Government regulations
  - D. Solving problems
22. Economies of scale, where average production costs decrease as output increases, are primarily associated with:
- A. Small-scale production units
  - B. Medium-scale production units
  - C. All production unit sizes equally
  - D. Large-scale production unit
23. Which firefighting technique involves reducing the temperature of the burning material?
- A. Smothering
  - B. Cooling
  - C. Starving
  - D. Interrupting
24. Kimutai has bought the material shown below from Mutethya Enterprises. Study and choose its name from the list provided.



- A. Glass
  - B. Shell
  - C. Utensil
  - D. Tiles
25. While on a visit to his grandfather's house, Kentia noticed the following item on his house. Study and identify its name.



- A. Chisel
- B. Hacksaw

- C. Handsaw
- D. Knife

26. A learner opened the software shown below on his laptop. What is the name given to such software?

	NAME	LANG	MATH	ENVIRO	CREAT	LIT	TOTAL
1	ENOCK KESHONYAN	90	90	90	90	90	540
2	IBRAHIM KARIMANA	100	90	80	85	90	445
3	SUSAN CHEPKEROT	70	80	100	90	80	420
4	BENAMIN KISERIAN	90	100	70	75	80	415
5	SHANTEL NASERIAN	100	100	70	70	70	410
6	FATH KARENIA	100	90	70	70	70	400
7	JOAN NAKOJ	70	90	80	80	80	400
8	TAMARA MANEU	90	90	100	85	70	380
9	BRIDGET SCIPAN	90	60	80	75	70	375
10	DONALD KIPKOECH	70	80	70	70	70	370
11	FAH RESTATO	80	80	80	75	70	365

- A. Spreadsheet
- B. Word
- C. Paint
- D. PowerPoint

27. What kind of software is used for specific tasks, such as creating documents or browsing the web?

- A. System software
- B. Application software
- C. Utility software
- D. Programming software

28. If a business has assets of ksh 50,000 and liabilities of ksh20,000, what is the owner's equity? \

- A. Ksh30,000
- B. Ksh50,000
- C. Ksh70,000
- D. Ksh20,000

29. A company buys a new delivery truck on credit. How would this transaction be classified?

- A. Asset purchase
- B. Revenue
- C. Expense
- D. Owner's equity

30. Which of the following is not a potential disadvantage of using intermediaries in distribution?

- A. Increased costs for the producer
- B. Loss of control over the marketing process
- C. Reduced product availability for consumers
- D. Greater efficiency in reaching target markets

## SECTION B:

31. Hacking is one of the safety challenges affecting digital devices not only in Kenya but also globally.



Outline the meaning of hacking and ways of prevention.

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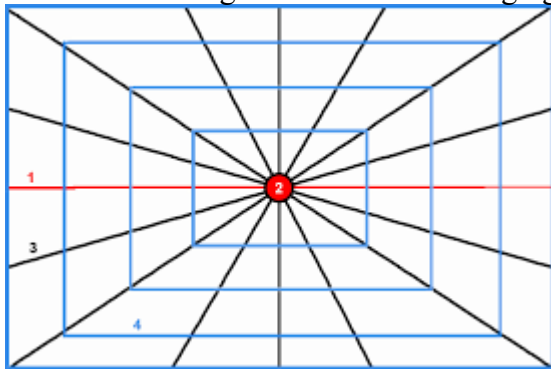


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32. Mutai is planning to enroll in college to pursue higher learning studies. Identify the type of computer that will be suitable for him.

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33. Rachel is drawing lines that are converging at their end point. Identify this technique of drawing.




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34. Mr. Mwangi owns a digital device. The digital device below is one of the commonly ICT tool in communication. Outline three merits of using it.



- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

35. Skyways Solutions designs animations such as one shown below. Outline two purposes served by such type of digital creation.



- a. \_\_\_\_\_
- b. \_\_\_\_\_

36. Maestro boarded the means of transport shown below while visiting his aunt in Sweden.



Identify the metal used in its construction

\_\_\_\_\_

37. Maintenance and care is a very crucial aspect for measuring tools. Outline some of the care procedures an individual is supposed to observe.

38. Entrepreneur and entrepreneurship are terms that are used interchangeably. Outline the meaning of these terms.

Entrepreneur:

\_\_\_\_\_

Entrepreneurship:

\_\_\_\_\_

39. Study the image below and answer the question that follows.



What is being shown and what is the meaning of the term?

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40. Hellen is planning to conduct mass sensation on qualities of entrepreneur to young people. What are some of the qualities of an entrepreneurial person?

- a. \_\_\_\_\_
- b. \_\_\_\_\_

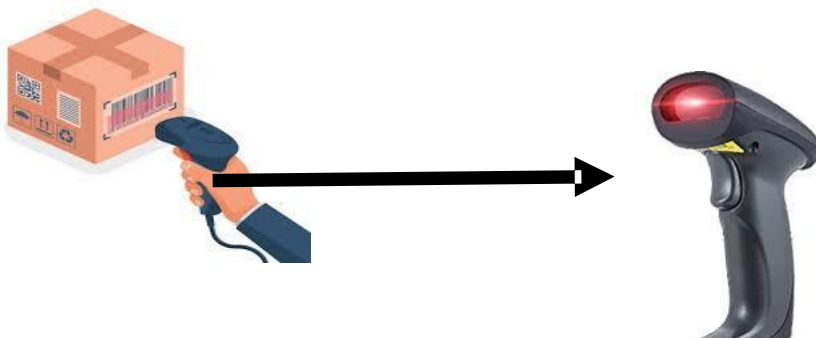
41. Data stored in a computer is prone to a variety of threats.



Outline any two threats that affect data.

- a. \_\_\_\_\_
- b. \_\_\_\_\_

42. A supermarket attendant was seeing holding the item shown below.



Study and give its name \_\_\_\_\_

43. A resource person told a group of learners that personal experience is a source of business idea. Explain how this can happen using an example

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44. Cherono started the enterprise below in her local home Chepsait. Identify the factors she put into consideration before starting it.



- a. \_\_\_\_\_  
b. \_\_\_\_\_

45. John used a blanket to extinguish fire that had started from a cooker.



Identify this method of fire extinguishing.

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46. Outline the meaning of the following terms as used in computing;



i. Syntax

ii. Variables

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iii. Coding blocks

---

47. What are the examples of visual program software?

a. \_\_\_\_\_

b. \_\_\_\_\_

48. Wanjala has been asked by her brother to highlight features of visual programming application. What are some of the features you expect him to mention?

a. \_\_\_\_\_

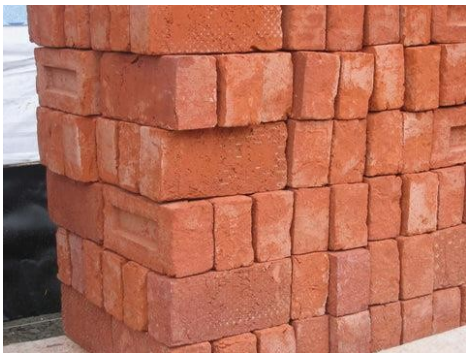
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49. Digital literacy is one of the key competencies of the new education system. Explain how it can be developed in the study of visual programming

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50. Shiundu created the composite materials shown below while on holiday. Study and outline their name.



1. **TASK 1:**

**Software and safety across the Internet.**

Kilobi has designed a software for handling employee's data in an organisation. Using this information, answer the questions below.

- a. State three materials he used. (3 mks)
- b. Name four online threats that are likely to affect his software. (3 mks)
- c. Outline the meaning of the term software. (2 mks)
- d. Outline any two programming languages used in the preparation of the software (2 mks)
- e. If kilobi conducted free-hand sketching of his intended software appearance;
  - i. Outline the tools used in free-hand sketching
  - ii. Outline three importance of free-hand sketching (3 mks)

2. **TASK 2:**

**Creation of simple employees excel data. Materials needed**

- a. Laptop or any digital device
- b. Strong internet connection
- c. USB drive

**Procedure**

- i. Click the start button of your digital device.
- ii. Open the spreadsheet from the MS

documents. (3mks?)

- iii. Identify a name of your imaginary company

or organisation with 10 employees whereby you are calculating their salaries. Enter the following data:

- a. Name of your company
- b. Age and company number of each employee
- c. Numbers of hours work of each employee
- d. Salary of each employee if the rate of payment is 100 Shillings per hour
- e. Total amount of money the company will spend on payment

## SERIES 7 PAPER 1

### SECTION A: MULTIPLE CHOICE (20 marks)

1. Which part is an output component?



A



C

D

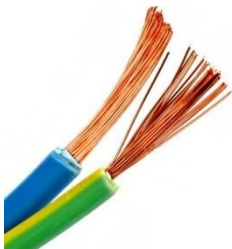


2. Which of the following is a type of software used to browse the internet?

- A. Word processor
  - B. Web browser
  - C. Database
  - D. Spreadsheet
2. What does CPU stand for in computer technology?

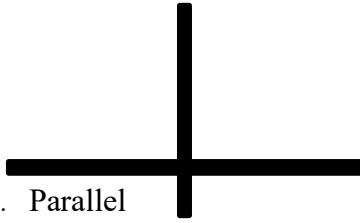
- A. Central Process Unit
  - B. Central Processing Unit
  - C. Central Power Unit
  - D. Central Program Unit
3. Which of these devices is considered an input device?
- A. Monitor
  - B. Keyboard
  - C. Speaker
  - D. Printer

4. Which type of metal has been used to make the following item?



- A. Copper
- B. Iron
- C. Bronze
- D. Aluminum

5. Which of the following tools is used for measuring angles?
- A. Vernier caliper
  - B. Protractor
  - C. Ruler
  - D. Hammer
6. What type of material is commonly used for the body of a car?
- A. Steel
  - B. Wood
  - C. Glass
  - D. Paper
7. What does the following symbol stand for?



- A. Parallel
  - B. Perpendicular
  - C. Horizontal
  - D. Vertical
8. What is the main theme in the following Kenyan currency?



- A. Agriculture
  - B. Healthcare
  - C. Green energy
  - D. Tourism
9. A business that provides services rather than goods is called:
- A. Manufacturing business
  - B. Service business
  - C. Retail business
  - D. Wholesale business
10. Which of the following is a characteristic of a sole proprietorship?
- A. Shared ownership

- B. Limited liability
- C. Single ownership
- D. Joint decision-making

11. Which of the following is NOT a hand tool used in woodworking?
  - a) Try square
  - b) Sledgehammer
  - c) Chisel
  - d) Jack plane
12. What does CAD stand for in technical drawing?
  - a) Computer Aided Drafting
  - b) Computer Assisted Development
  - c) Computer Architecture Design
  - d) Computer Automated Drawing
13. The most common material used for making electrical wiring is:
  - a) Iron
  - b) Copper
  - c) Aluminium
  - d) Lead
14. The main function of a motherboard in a computer is to:
  - a) Store data permanently
  - b) Connect and communicate with all hardware components
  - c) Print documents
  - d) Protect against viruses
15. A printer is an example of a:
  - a) Storage device
  - b) Processing device
  - c) Output device
  - d) Communication device
16. Which of these storage devices has the largest capacity?
  - a) CD-ROM
  - b) Flash drive
  - c) Hard disk
  - d) Floppy disk
17. The part of a computer that temporarily holds data and instructions during processing is:
  - a) Hard drive
  - b) RAM
  - c) ROM
  - d) Power supply
18. Which of the following is a characteristic of an entrepreneur?
  - a) Risk-taking
  - b) Laziness
  - c) Fear of failure
  - d) Avoiding responsibility
19. The process of buying and selling goods and services is called:
  - a) Trade
  - b) Capital

- c) Profit
  - d) Production
20. A receipt is used in a business to:
- a) Record expenses
  - b) Show proof of payment
  - c) Advertise a business
  - d) Store goods
21. Which factor affects the demand for a product?
- a) The number of suppliers
  - b) The cost of raw materials
  - c) The selling price
  - d) The weather condition
22. Which type of business is owned by two or more people?
- a) Sole proprietorship
  - b) Partnership
  - c) Cooperative society
  - d) Public corporation
23. The main purpose of bookkeeping in a business is to:
- a) Attract customers
  - b) Record financial transactions
  - c) Manufacture goods
  - d) Store products
24. Which of the following is NOT an advantage of e-commerce?
- a) It allows 24/7 sales
  - b) It reduces business costs
  - c) It eliminates all risks
  - d) It increases market reach
25. Which of the following is an example of a service business?
- a) A bakery
  - b) A tailor shop
  - c) A taxi company
  - d) A car manufacturing company
26. The legal document that gives a business permission to operate is called a:
- a) Business plan
  - b) Trading license
  - c) Invoice
  - d) Sales record
27. Which of the following is NOT a function of money in business?
- a) Medium of exchange
  - b) Store of value
  - c) Creation of goods
  - d) Standard of deferred payment
- b) List two sources of capital for a small business.

## **SERIES 7 PAPER 2**

### **TASK 1. Word Processing (Microsoft Word or Similar)**

- Create a document with the following:
  1. Insert a title in **bold** and center-align it.
  2. Type a paragraph about the importance of computers in daily life. Use **Justify** alignment.
  3. Insert a bulleted list of at least three advantages of using computers.
  4. Insert a table with three columns: **Serial Number, Computer Part, and Function**. Add at least three rows.
  5. Save the document with the name "**Computer Practical**" in a folder named **Grade 9 Projects**.

### **TASK 2. Spreadsheet Application (Microsoft Excel or Similar)**

- Create a spreadsheet to manage a small school's inventory of computer accessories:
  1. Column A: **Accessory Name**
  2. Column B: **Quantity**
  3. Column C: **Unit Price (Ksh)**
  4. Column D: **Total Price (Ksh)** (Use a formula to calculate Quantity × Unit Price).
  5. Format the Total Price column to **Ksh currency** format.
  6. Use a **SUM formula** to calculate the total cost of all accessories.
  7. Save the spreadsheet as "**School Inventory**".

### **TASK 3. Presentation Software (Microsoft PowerPoint or Similar)**

- Create a 3-slide presentation with the following:
  1. **Slide 1:** Title Slide – Include the title "**Introduction to Computers**" and your name.
  2. **Slide 2:** List any four **types of computers** with images.
  3. **Slide 3:** State two **advantages** and two **disadvantages** of using computers.
  4. Apply a suitable design theme and transitions between slides.
  5. Save the presentation as "**Computer Basics**".

### **TASK 4. Basic Programming (Scratch or Python)**

#### **Option A: Scratch**

- Create a Scratch program where:
  1. A character greets the user with "Hello, Grade 9!".
  2. The character moves 10 steps forward and changes costume.
  3. Include a sound effect when the program starts.
  4. Save the project as "**Greeting Program**".

#### **Option B: Python**

- Write a Python program to:
  1. Ask the user to enter their name.
  2. Display the message **"Welcome [Name] to Grade 9 Computer Studies!"**.
  3. Save the program as **greet\_user.py**.

#### **TASK 5. Internet and Email**

1. Open a web browser and search for "Uses of Computers in Education."
2. Copy any two points and paste them into a word processor.
3. Create an email draft with the subject **"Grade 9 Computer Studies Assignment"**, and attach the document you created. Address it to a mock email like **teacher@school.com**.

#### **TASK 6. File and Folder Management**

1. Create a folder named **"Pre-Technical Projects"** on your desktop.
2. Inside the folder, create three subfolders:
  - **Documents**
  - **Spreadsheets**
  - **Presentations**
3. Move the files you created earlier (Word, Excel, and PowerPoint) into the appropriate subfolders.

#### **TASK 7. Troubleshooting and Hardware Identification**

1. Identify and label the following parts of a computer:
  - Monitor
  - Keyboard
  - Mouse
  - CPU
2. State the function of each part in a table format in Word or Excel.



## **SERIES 8 PAPER 1**

1. Which of the following is an input device?
  - A. Printer
  - B. Monitor
  - C. Keyboard
  - D. Speaker
  
2. What is the main purpose of an operating system?
  - A. To protect the computer from viruses
  - B. To manage hardware and software resources
  - C. To perform calculations
  - D. To create graphics
  
3. Which one of the following is a storage device?
  - A. CPU
  - B. Hard Disk Drive (HDD)
  - C. Mouse
  - D. RAM
  
4. Which programming language is commonly used for web development?
  - A. Python
  - B. HTML
  - C. C++
  - D. Java
  
5. What does the acronym “URL” stand for?
  - A. Universal Resource Locator
  - B. Uniform Resource Locator
  - C. Universal Route Link
  - D. Uniform Route Locator
  
6. What is the primary purpose of a business?
  - A. To provide employment
  - B. To produce goods and services
  - C. To maximize profit
  - D. To pay taxes
  
7. Which of the following is an example of a service industry?
  - A. Agriculture
  - B. Banking
  - C. Mining

D. Manufacturing

8. What is a budget?
- A. A list of expenses
  - B. A plan for saving money
  - C. A financial plan for income and expenses
  - D. A document for tax purposes
9. What does the term “entrepreneur” refer to?
- A. An employee of a business
  - B. A person who starts and manages a business
  - C. A government official
  - D. A financial advisor
10. Which document is used to record financial transactions?
- A. Ledger
  - B. Invoice
  - C. Receipt
  - D. Quotation
11. Which tool is used for measuring angles?
- A. Ruler
  - B. Compass
  - C. Protractor
  - D. Set square
12. What is the main purpose of technical drawing?
- A. To design decorative art
  - B. To represent ideas graphically
  - C. To create animations
  - D. To write technical reports
13. What is a safety rule when using hand tools?
- A. Use the tool for any available task
  - B. Wear gloves when working
  - C. Share tools with others
  - D. Clean tools after use
14. Which of the following is a renewable energy source?

- A. Coal
- B. Solar power
- C. Oil
- D. Natural gas

15. What does the term “sustainability” refer to in technical studies?

- A. Reducing costs
- B. Long-term use of resources without depletion
- C. Maximizing production output
- D. Reusing waste materials

## SECTION B

### 1. Computer Studies

1. Define the following terms:

a) Hardware

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b) Software

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c) Data

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d) Operating system

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2. Explain the difference between primary memory and secondary memory.

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3. List three input devices and three output devices.

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4. What are the advantages of using spreadsheets in business?

## 2. Business Studies

1. Define the following terms:

a) Entrepreneurship

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b) Profit

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c) Budget

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2. List five characteristics of a successful entrepreneur.

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3. Differentiate between formal and informal businesses.

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### b. Essay Questions

1. Explain the importance of record-keeping in a business.

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2. Discuss three challenges small-scale businesses face and suggest solutions.

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3. Why is marketing important for business success?

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### 3. Pre-Technical Studies

#### a. Design and Drawing Questions

1. Sketch a simple house plan with a bedroom, kitchen, and bathroom.
2. Draw and label the following tools:
  - Screwdriver
  - Hammer
  - Tape measure

#### b. Technical Theory Questions

1. Define the following terms:

a) Plumbing

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b) Masonry

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c) Carpentry

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2. Explain the safety precautions to observe when using:

a) A power drill

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b) A handsaw

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3. Describe the steps involved in installing a light bulb.

SERIES 8  
PAPER 2

Part 1: Programming Task (60 marks)

Task 1: Create a Simple Program

Objective: Demonstrate the ability to write and debug a program.

- **Topic Options:**
  - **Create a Calculator:** Write a Python or Java program that can perform basic arithmetic operations (addition, subtraction, multiplication, division). The program should have a user-friendly interface, and allow for repeated operations without restarting the program.
  - **Student Grade System:** Develop a program that takes student grades as input and calculates the average. Based on the average, the program should categorize the performance (e.g., Excellent, Good, Needs Improvement).
- **Requirements:**
  - Program must handle input and output clearly.
  - The user interface should be easy to interact with (CLI or GUI).
  - Include error handling for invalid inputs (e.g., division by zero, invalid data).

Part 2: Research and Documentation (40 marks)

Task 2: Digital Literacy & Ethics in Technology

Objective: Demonstrate knowledge of digital literacy and ethical considerations in the use of technology.

- **Assignment:**
  - Write a 1-2 page report or create a digital presentation (slides or document) that discusses:
    - The role of computers and technology in everyday life.
    - How technology can impact education, the workforce, and personal life.
    - Ethical concerns related to technology, such as privacy, cybersecurity, and data protection.
    - Practical ways to stay safe online and avoid cyberbullying.
- **Evaluation Criteria:**
  - Clarity of ideas.
  - Depth of understanding on digital literacy topics.
  - Use of relevant examples or case studies.
  - Neatness and organization of the report or presentation.

Assessment Rubric:

Criteria	marks
<b>Part 1: Programming Task</b>	40
Functionality of program	20
Correct implementation of features	10
Code readability & comments	10
<b>Part 2: Research and Documentation</b>	20
Understanding of digital literacy and ethics	10
Quality of presentation or report	5
Clarity and structure of ideas	5
Task 2	20
Task 3	20

**Additional Notes:**

- Ensure that you submit all files as required (e.g., source code, report, presentation).
- Be mindful of time management: allocate enough time for both tasks.
- Plagiarism is strictly prohibited. Ensure all work is original or properly cited.

**Task 2:(20 marks)**

- **Drawing Exercise:**
  - Draw an oblique projection of a rectangular box with dimensions 5 cm x 3 cm x 2 cm.

**Task 3: (20 marks)**

- **Project Design:**
  - Design a simple hand tool that can be used to collect rainwater for domestic use. Include a labeled sketch and list the materials required.

## **SERIES 9**

### **SECTION A: (30 MARKS)**

**Choose the correct answer from the given options.**

1. James is working in a workshop and notices an oil spill on the floor. What should he do to maintain a safe working environment?  
A) Ignore it and continue working  
B) Clean it immediately to prevent accidents  
C) Inform his friends and leave it unattended  
D) Cover it with paper
2. Which of the following is NOT a computer input device?  
A) Keyboard    B) Mouse  
C) Monitor    D) Scanner
3. A company experiences frequent hacking attempts. What is the best way to protect its data?  
A) Using strong passwords and antivirus software  
B) Writing passwords on sticky notes  
C) Sharing login credentials with all employees  
D) Avoiding software updates
4. Which of the following is a factor to consider when selecting a business site?  
A) Proximity to customers  
B) High rent costs  
C) Poor infrastructure  
D) Lack of security
5. Mark is drawing a technical diagram and needs to indicate the exact size of components. What tool should he use?  
A) Compass  
B) Protractor  
C) Ruler and set square  
D) Paintbrush
6. Which of the following is an example of an online threat?  
A) Firewall    B) Phishing  
C) Data backup    D) Software update
7. A teacher asks students to list characteristics of computers. Which of the following is NOT correct?  
A) Computers are fast and accurate  
B) Computers have emotions  
C) Computers can store large amounts of data  
D) Computers follow instructions
8. Which of the following is an example of a non-renewable resource?  
A) Solar energy    B) Wind energy  
C) Coal    D) Trees
9. A fire breaks out in a workshop due to an electrical fault. Which fire extinguisher should be used?  
A) Water extinguisher  
B) Carbon dioxide (CO<sub>2</sub>) extinguisher  
C) Foam extinguisher  
D) Sand
10. Which of the following is NOT a role of money?  
A) Medium of exchange  
B) Store of value  
C) Source of energy  
D) Unit of account
11. A carpenter is using a saw without protective goggles. What is the potential risk?  
A) Eye injury from flying debris  
B) Increased speed of work

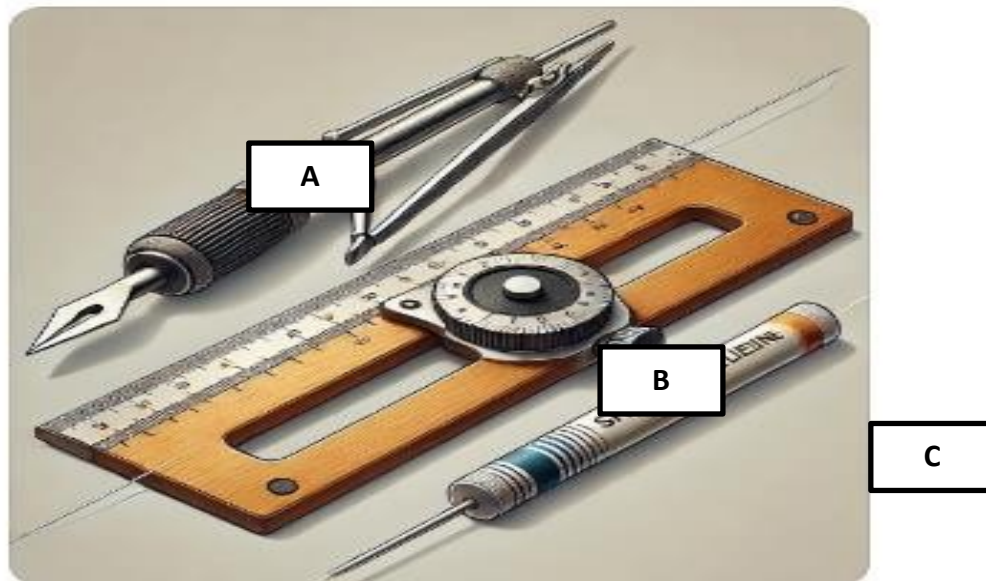


- C) Better vision while cutting
  - D) Stronger grip on the saw
12. Which of the following is an ICT tool used in communication?
- A) Hammer      B) Email
  - C) Saw      D) Calculator
13. A business owner sets unfairly high prices on essential goods. What is this an example of?
- A) Consumer protection
  - B) Exploitation of consumers
  - C) Fair trade
  - D) Customer satisfaction
14. Why is visual programming important?
- A) It helps learners code using graphics instead of text
  - B) It makes coding more difficult
  - C) It increases programming errors
  - D) It eliminates the need for computers
15. Which of the following is NOT a use of money?
- A) Medium of exchange
  - B) Store of value
  - C) Decoration for walls
  - D) Standard of deferred payment
16. Which of the following is a renewable resource?
- A) Coal
  - B) Petroleum
  - C) Solar energy
  - D) Natural gas
17. The safety color used to indicate **fire equipment** is:
- A) Green
  - B) Blue
  - C) Red
  - D) Yellow
18. What is the main purpose of dimensioning in technical drawing?
- A) To indicate measurements and sizes
  - B) To make the drawing more colorful
  - C) To erase errors in the drawing
  - D) To change the type of drawing
19. A **ruler** is classified as:
- A) A measuring tool
  - B) A cutting tool
  - C) A marking tool
  - D) A fastening tool
20. Which of the following is NOT a component of **ICT**?
- A) Hardware
  - B) Software
  - C) Transportation
  - D) Networks
21. The following are **basic shapes** used in technical drawing, EXCEPT:
- A) Triangle
  - B) Circle
  - C) Square
  - D) Cube
22. The money used in **Kenya** is called:
- A) Dollar
  - B) Shilling
  - C) Euro
  - D) Rupee

23. A **business plan** is important because:
- A) It helps to increase confusion in a business
  - B) It guides how a business should operate
  - C) It ensures customers are not served
  - D) It is used to discourage entrepreneurship
24. A **fire extinguisher suitable for electrical fires** is:
- A) Water extinguisher
  - B) Foam extinguisher
  - C) Carbon dioxide (CO<sub>2</sub>) extinguisher
  - D) Wet chemical extinguisher
25. Which of the following is NOT a type of **entrepreneur**?
- A) Risk-taker      B) Innovator
  - C) Businessperson   D) Consumer
26. Which of the following is an **input device**?
- A) Monitor   B) Keyboard
  - C) Printer    D) Speaker
27. **Consumer protection** ensures that:
- A) Customers receive quality goods and services
  - B) Sellers cheat customers
  - C) Buyers pay unfair prices
  - D) Companies exploit their employees
28. Which one is an **example of synthetic material**?
- A) Cotton    B) Wool
  - C) Leather   D) Plastic
29. The **fire triangle** consists of:
- A) Fuel, heat, and oxygen
  - B) Fuel, electricity, and heat
  - C) Water, oxygen, and fuel
  - D) Fire, gas, and air
30. Which of the following is an **online threat**?
- A) Malware      B) Firewall
  - C) Strong password   D) Antivirus

### SECTION B: (50 Marks)

31. A workshop technician is handling different tools. Identify the following marking tools. (3 Marks)



32. A Grade 8 learner was using different types of artistic drawings. Name the type of drawing in the provided image. (4 Marks)



A



B



C



D

33. A business owner is setting up a new shop. List two factors to consider when selecting a business site. (2 Marks)

a) \_\_\_\_\_  
b) \_\_\_\_\_

34. Identify two causes of fire in the workplace. (2 Marks)

a) \_\_\_\_\_  
b) \_\_\_\_\_

35. Suggest two ways to prevent fires in a workplace. (2 Marks)

a) \_\_\_\_\_  
b) \_\_\_\_\_

36. Mention two security features found on Kenyan currency. (2 Marks)

a) \_\_\_\_\_  
b) \_\_\_\_\_

37. Identify two non-metallic materials used in construction. (2 Marks)

a) \_\_\_\_\_

38. A company wants to protect consumer rights. Mention two ways of protecting consumers from exploitation. (2 Marks)

a) \_\_\_\_\_

39. List two components of Pre-Technical Studies. (2 Marks)

a) \_\_\_\_\_

40. Write two qualities of a good entrepreneur. (2 Marks)

a) \_\_\_\_\_  
b) \_\_\_\_\_

41. Name two ways of securing computer data from harm. (2 Marks)

a) \_\_\_\_\_

42. A student is using the following input devices in a computer lab. Name them. (3 Marks)

a) \_\_\_\_\_

43. State the components of the fire triangle. (3 Marks)

a) \_\_\_\_\_

44. A school wants to buy storage devices for computers. Name two types of storage devices they should consider. (2 Marks)

a) \_\_\_\_\_

45. The teacher writes the following abbreviations on the board. State their full meanings. (3 Marks)

a) CPU - \_\_\_\_\_  
b) ICT - \_\_\_\_\_  
c) USB - \_\_\_\_\_

**SERIES 10**

**Answer ALL the Questions in the spaces provided (60 Marks)**

1. Pre-Technical Studies consist of **THREE** major learning areas, name them. (3mks)

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2. State any **TWO** causes of fire outbreak at a work place. (2mks)

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3. Give any **FOUR** firefighting methods that can be used to stop fire at a work place. (4mks)

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4. During Pre-Technical studies lesson in grade 7, the teacher came with the following measuring tools. Identify and name the tools. (3mks)



A: \_\_\_\_\_



B: \_\_\_\_\_



C: \_\_\_\_\_

5. Give the meaning of the following terms

i. Communication: \_\_\_\_\_

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ii. Plain scale: \_\_\_\_\_

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6. List any **THREE** channels of communication (3mks)

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7. Mr. Ajowi asked Grade 8 learners to compose a song highlighting various means of written communication. Give any **THREE** means of written communication learners could use to compose the song (3mks)

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8. Senior Head teacher Harmony School wanted to pass an information concerning the ongoing ball games to the Regional Director. Advise him on **THREE** factors he should consider when selecting channel of communication to use. (3mks)

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9. Highlight **TWO** advantages of using Oral Communication. (2mks)

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- 10.a) What is Representative Fraction (**RF**) (1mrk)

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- b) Calculate Representative Fraction in each of the following (3mks)

i. 1cm rep 1.5m

ii. 1: 200

iii. 1cm rep 0.02km

11. Categorize the following examples of drawings as either Technical or Artistic Drawing. (4mks)

Drawing	Category/Type
Caricature	
Electrical Drawing	

Architectural Drawing	
Portrait	

12. How much money do we have in Kenyan currency? (2mks)



13. Identify the following Kenyan notes (3mks)

	ANIMAL REPRESENTED

14. State any TWO uses of money (2mks)

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15. Onyango, a form four drop out wanted to venture into business, advise him on TWO sources he can generate business idea. (2mks)

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16. What is a computer: \_\_\_\_\_

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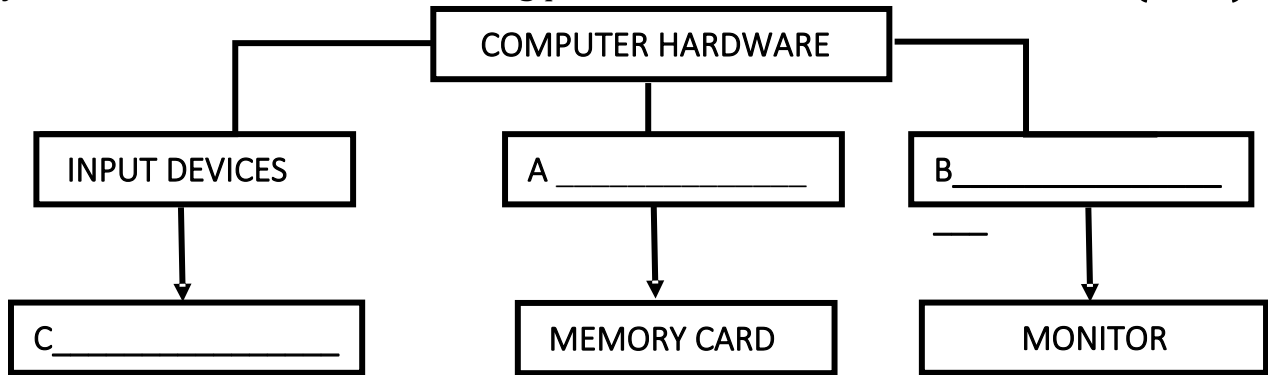


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Give any TWO classifications of computers according to size. (2mks)



17. Study the table below fill in the missing parts in the table below. (3mks)



18. The following are some of the storage devices used to store computer data and information. Identify and name the storage devices. (4mks)



A \_\_\_\_\_



B \_\_\_\_\_



C \_\_\_\_\_



D: \_\_\_\_\_

19. Imagine you are supposed to buy a storage device that you'll be using to keep your notes, videos, computer games and music. State any **THREE** factors you will consider when selecting appropriate storage device. (3mks)

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20. Give any **THREE** threats to data stored in a computer. (3mks)

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**SECTION A: (30 MARKS)** (Choose the correct answer from the given options)

1. **Which of the following is a component of Pre-Technical Studies?**  
A) Biology  
B) Safety in the Work Environment  
C) History  
D) Literature
2. **What is the main purpose of safety rules in a work environment?**  
A) To reduce productivity  
B) To prevent accidents and injuries  
C) To increase costs  
D) To discourage employees
3. **Which of the following is NOT an online threat in the work environment?**  
A) Phishing                      B) Malware  
C) Firewalls                    D) Hacking
4. **The physical parts of a computer are known as:**



- A) Software                      B) Hardware  
C) Applications                D) Operating System
5. **What is the importance of communication in a workplace?**  
A) To increase misunderstandings  
B) To pass information effectively  
C) To confuse workers  
D) To cause conflicts
  6. **An example of an ICT tool used in communication is:**  
A) Pencil  
B) Printer  
C) Email  
D) Ruler
  7. **In artistic drawing, shading is used to:**





- A) Destroy the image
  - B) Add beauty and realism
  - C) Reduce the size of the drawing
  - D) Make the drawing difficult to understand
8. **Technical drawings are mainly used in:**
- A) Artistic competitions
  - B) Engineering and construction
  - C) Playing games
  - D) Business transactions
9. **The process of making an accurate representation of an object using geometric principles is called:**
- A) Sculpture
  - B) Geometry
  - C) Plane Geometry
  - D) Dimensioning
10. **The factors of production include:**
- A) Land, Labour, Capital, and Entrepreneurship
  - B) Labour, Goods, Services, and Capital
  - C) Profit, Loss, Sales, and Marketing
  - D) Money, Transport, Technology, and Entrepreneurship
11. **Which of the following is NOT a type of artistic drawing?**
- A) Still-life drawing
  - B) Perspective drawing
  - C) Technical drawing
  - D) Nature drawing
12. **The process of transferring messages from one person to another is known as:**
- A) Communication
  - B) Drawing
  - C) Production
  - D) Entrepreneurship
13. **Which of the following is an example of a communication channel?**
- A) Book
  - B) Radio
  - C) Land
  - D) Measuring tools
14. **In technical drawing, dimensioning is done to:**
- A) Beautify the drawing
  - B) Indicate measurements and sizes
  - C) Erase errors in the drawing
  - D) Change the type of drawing
15. **Which of the following is NOT a factor of production?**
- A) Land
  - B) Labour
  - C) Currency
  - D) Capital
16. **A resource that can be replaced naturally over time is called:**
- A) Non-renewable
  - B) Renewable
  - C) Metallic
  - D) Non-metallic
17. **An example of a synthetic material is:**
- A) Wood
  - B) Rubber
  - C) Cotton
  - D) Plastic
18. **The main function of marking tools is to:**
- A) Measure the length of objects
  - B) Mark lines and points on materials
  - C) Cut materials into shapes
  - D) Store tools and equipment

19. The type of entrepreneur who starts a business by taking financial risks is called:
- A) Inventor
  - B) Businessperson
  - C) Innovator
  - D) Risk-taker
20. The money used in Kenya is called:



- A) Dollar
  - B) Shilling
  - C) Yen
  - D) Rupee
21. One of the security features in Kenyan currency is:
- A) Bank name
  - B) Watermark
  - C) Shape
  - D) Size
22. Which of the following is NOT a use of money?
- A) Store of value
  - B) Medium of exchange
  - C) Source of electricity
  - D) Unit of account
23. Which one of the following is NOT a cause of fire?
- A) Faulty electrical appliances
  - B) Poor ventilation
  - C) Careless disposal of cigarette stubs
  - D) Gas leaks
24. A suitable fire extinguisher for electrical fires is:
- A) Water extinguisher
  - B) Foam extinguisher
  - C) Carbon dioxide (CO<sub>2</sub>) extinguisher
  - D) Sand extinguisher
25. Which one of the following is NOT an example of computer hardware?
- A) Monitor
  - B) Keyboard
  - C) Mouse
  - D) Antivirus software
26. Which of the following is an example of an input device?
- A) Printer
  - B) Scanner
  - C) Speaker
  - D) Monitor
27. Consumer protection in Kenya is important because it:
- A) Allows sellers to cheat customers
  - B) Ensures fair trade practices
  - C) Prevents people from buying goods
  - D) Increases the cost of production

28. Which of the following is a way of protecting consumers from exploitation?

- A) Increasing the price of goods
- B) Creating fake advertisements
- C) Setting fair prices
- D) Encouraging hoarding of goods

29. Which one of the following is a type of visual programming?

- A) JavaScript
- B) Scratch
- C) C++
- D) Python

30. Which of the following is an importance of visual programming?

- A) Makes coding harder
- B) Helps create programs using graphics instead of text
- C) Reduces computer memory
- D) Increases the number of errors in coding

### SECTION B: Structured Questions (50 Marks)

31. (3 Marks) a grade 8 learner was found using the following storage devices. Name them.

32. Name two components of Pre-Technical Studies. (2 Marks)

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

33. State two ways to secure computer data from harm. (2 Marks)

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

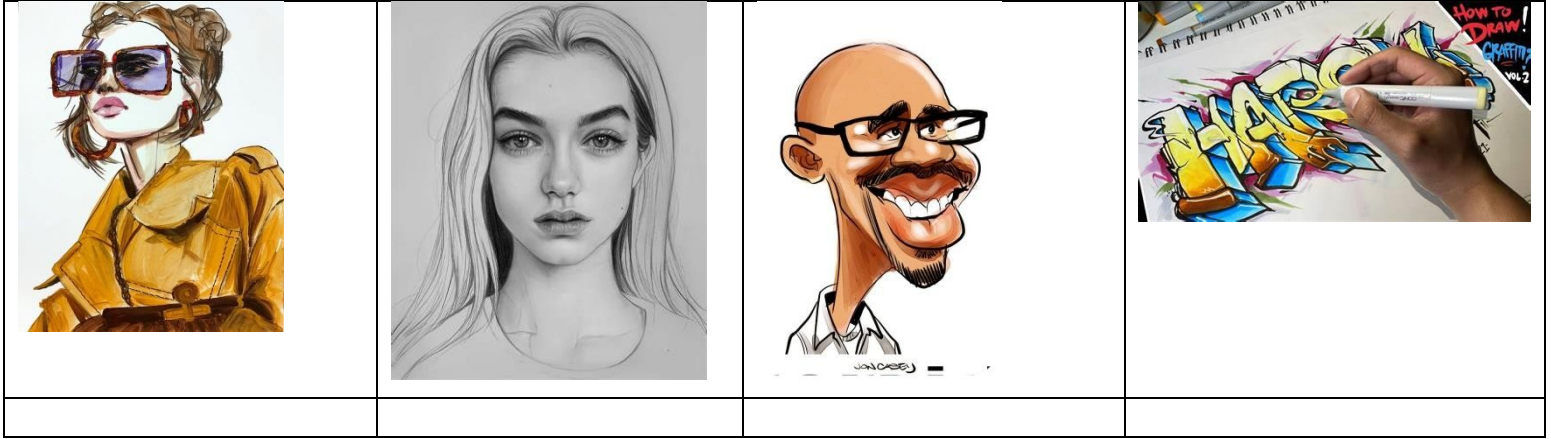
34. State two online threats to data. (2 Marks)

- i. \_\_\_\_\_
- ii. \_\_\_\_\_
- iii. \_\_\_\_\_

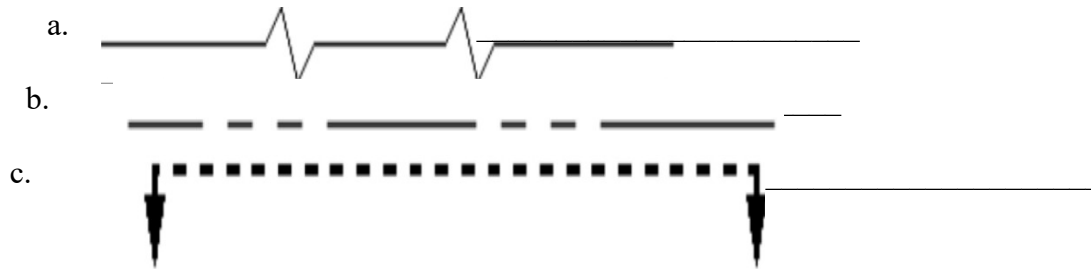
35. List two characteristics of computers.(2 marks)

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

36. Identify the following types of artistic drawings: (4 Marks)



37. Name the following technical lines(4 Marks)



38. Name the following basic symbols used in drawing. (2 Marks)

	Symbol	Meaning
a		
b		

39. State the meaning of the following basic abbreviations used in drawing. (3 Marks)

- a) DRG - \_\_\_\_\_
- b) A/F - \_\_\_\_\_
- c) A/C - \_\_\_\_\_

40. State two ICT tools used in communication. (2 Marks)

- a) \_\_\_\_\_
- b) \_\_\_\_\_

41. Give two examples of non-metallic materials: (2 marks)

- a) \_\_\_\_\_
- b) \_\_\_\_\_

42. State two causes of fire in the work place. (2 Marks)

- a) \_\_\_\_\_  
b) \_\_\_\_\_

**43. Mention two ways of preventing fire in the workplace: (2 marks)**

- a) \_\_\_\_\_  
b) \_\_\_\_\_

**44. State two factors to consider when selecting a business site: (2 marks)**

- a) \_\_\_\_\_  
b) \_\_\_\_\_

**45. Outline two roles of money in the economy: (2 marks)**

- a) \_\_\_\_\_  
b) \_\_\_\_\_




**46. Mention two ways consumers can be protected from exploitation: (2 marks)**

- a) \_\_\_\_\_

**47. Write two qualities of a good entrepreneur: (2 marks)**

- a) \_\_\_\_\_  
b) \_\_\_\_\_

**48. What is the name of the input devices below? (3 marks)**

		
_____	_____	_____



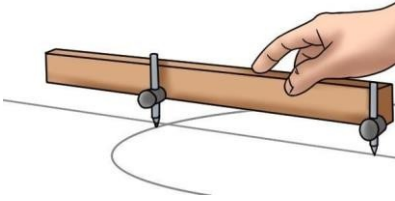

**49. Write two examples of storage devices: (2 marks)**

- a) \_\_\_\_\_

**50. Name the components of the fire triangle.(3 marks)**



51. Name the following marking tools. (3 marks)

**SERIES 12**

**Answer ALL the Questions in the spaces provided (50 Marks)**

1. Give the meaning of the following terms as used in Pre-Technical Studies **(3mks)**

i. Computer: -

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ii. Data: -

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iii. Information: -

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2. Give any **TWO** examples of data that can be entered into a computer **(2mks)**

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3. List **THREE** methods of classifying computers, **(3mks)**

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4. Give any **FOUR** classifications of computers **(4mks)**

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5. The biggest, fastest and the most expensive computer is called? **(1mrk)**

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6. Mr. Ajowi asked grade 7 learners to make posters highlighting characteristics of computers, give any **FOUR** characteristics of computers learners could highlight on the posters.

**(4mks)**

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7. What is safety

**(1mrk)**

- 
8. a) Identify safety measure observed by the people in the picture below. (2mrk)



A: \_\_\_\_\_

B: \_\_\_\_\_

- b) A part from the safety measure shown in the picture above, give any other **TWO** examples of safety measures we need to observe to avoid causing harm to ourselves.

(2mks)

\_\_\_\_\_

—

9. Cyber is one of the business opportunities that a pre-technical student can venture in. As a cyber-owner, state **FOUR** ways you will ensure safety to your computers against physical threats like theft, dust, etc.

(4mks)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

10. Maina is an **ICT** expert that works online to a company in USA. A part from Virus attack, give any other **FOUR** Online threats he is likely to face while working online.

(4mks)

\_\_\_\_\_  
\_\_\_\_\_

11. During Pre-Technical studies lesson in grade 7, the teacher came with the following devices into the classroom. Identify and name the devices

(4mks)



A: \_\_\_\_\_



B: \_\_\_\_\_





C \_\_\_\_\_  
D \_\_\_\_\_

12. What is Communication? (1mrk)

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13. Communication is one of a very important aspect in a working environment, give any **THREE** importance of communication in the work environment (3mks)

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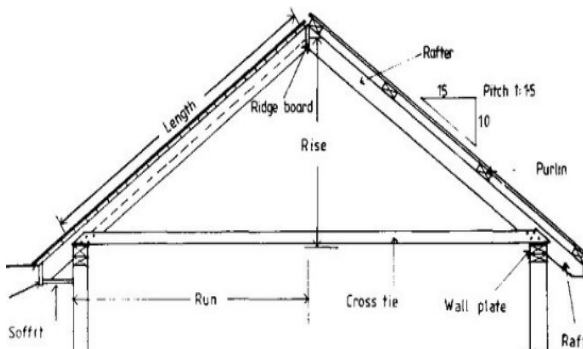
14. Write ICT in full. (1mrk)

15. Match the following **ICT** tools used in communication with the right description

(3mks)

ICT tool	Description
Video conferencing	allows calling and messaging in communication
Emails	Facilitate meeting with people over internet, where you see and talk to each other through internet
Mobile Phones	used to exchange messages/information over the internet to other individuals

16. There are two types of drawing, Identify Artistic Drawing and Technical Drawing in the diagrams below. (2mks)



A) \_\_\_\_\_

B) \_\_\_\_\_

17. Categorize the following examples of drawings as either Technical or Artistic Drawing. (4mks)

Drawing	Category/Type
Caricature	
Electrical Drawing	

Architectural Drawing	
Portrait	

18. What do the following symbols represent in drawing

(3mks)



A) \_\_\_\_\_  
\_\_\_\_\_

B) \_\_\_\_\_

C) \_\_\_\_\_

### **SERIES 13**

1. The taking of preventive measures to reduce or avoid harmful or risky situations that can cause damage is known as ..... (2mks)
2. Identify 3 importance of personal safety. (3mks)
  - (a) .....
  - (b) .....
  - (c) .....
3. Highlight 2 possible health hazards in a carpenters workshop. (2mks)
  - (a).....
  - (b).....
4. Identify 2 careers related to safety. (2mks)
  - (a) .....
  - (b).....
5. Any physical harm or damage to someone's body caused by attack, impact or accident is known as ..... (2mks)
6. List down 2 examples of injuries. (2mks)
  - (a).....
  - (b).....
7. An injury of broken bones is known as ..... while that of misplaced and twisted joints is known as ..... (4mks)
8. An assistance given to an injured victim before being taken to a specialized medical facility is known as .....(2mks)
9. List down 3 items found in the first aid kit.(3mks)
  - (a).....
  - (b) .....
  - (c) .....
10. The ability of metals to be beaten to different shapes without breaking is known as .....(2mks)
11. The property of most metals to be drawn into thin wires without breaking is known as..... (2mks)
12. List down 2 natural non-metallic materials used to make tools. (2mks)
  - (a).....
  - (b) .....
13. Identify 2 careers related to use of non metals. (2mks)
  - (a).....
  - (b) .....
14. Highlight 2 synthetic non-metallic materials used to make tools. (4mks)
  - (a).....

15. Describe the physical characteristics of the following metals.  
Copper..... (1mk)  
Aluminium .....(1mk)
16. Identify 2 careers related to use of metals. (2mks)  
(a).....  
(b) .....
17. List down 2 types of commonly used metals. (2mks)  
(a).....  
(b) .....
18. Differentiate between ferrous and non-ferrous metals. (2mks)  
.....  
.....
19. List down 2 examples of ferrous metals. (2mks)  
(a).....  
(b) .....
20. Identify 2 examples of non ferrous metals. (2mks)  
(a).....  
(b) .....
21. List down 2 magnetic metals. (2mks)  
(a).....  
(b) .....
22. List down 2 categories of house hold hand tools. (2mks)  
(a).....  
(b) .....
23. Define the term ‘distribution’ as applied in business. (2mks)  
.....  
.....
24. Discuss the three functions or uses of money. (3mks)  
(i) .....  
(ii) .....  
(iii) .....
25. Kenyan notes exist in ..... denominations. (2mks)
26. Name two characteristics of human wants. (2mks)  
(i) .....  
(ii) .....
27. State two factors to consider when making personal goals. (2mks)  
(i) .....  
(ii) .....
28. Name three aids of business trade. (3mks)  
(i) .....

29. Differentiate between the terms ‘ good’ and ‘service’. (4mks)  
(i) .....  
(ii) .....
30. Name the three types of trade. (3mks)  
(i) .....  
(ii) .....  
(iii) .....
31. A business was established near a certain school, however, it collapsed after two months. What was the likely causes? (3mks)  
.....  
.....  
.....
32. Give three uses of money in Kenya in day to day life. (3mks)  
(i) .....  
(ii) .....  
(iii) .....
33. Identify three factors that hinder business expansion. (3mks )  
(i) .....  
(ii) .....  
(iii) .....
34. Highlight 3 importance of learning business studies in the society. (3mks)  
(i) .....  
(ii) .....  
(iii) .....
35. Write two examples of intermediate goods. (2mks)  
(i) .....  
(ii) .....
36. State one common feature in all Kenyan currencies. (2mk)  
.....
37. Every county needs production of goods and services. List three benefits of production. (3mks)  
(i) .....  
(ii) .....  
(iii) .....
38. What is a computer device? .....(1mk)
39. Identify two examples of digital devices.(2mks)  
(a) .....  
(b) .....
40. State 2 steps of data processing in a computer system (2mks)  
(a) .....  
(b) .....
41. Identify 2 uses of a computer. (2mks)  
(a) .....  
(b) .....
42. Special Computer devices designed for specific tasks are known as .....(1mk)

**SERIES 14**

1. Name the parts of the computer shown below. (5 mks)



2. Susan a grade eight learner was challenged by her pre-technical studies teacher, to set personal goals that will motivate her to successful self-development. State three factors she should consider when setting her goals.

[3marks]

- (a) .....
- (b) .....
- (c) .....

3. Daima estate members organised a cleanup day to clean the estate. State three safety measures they should observe to minimise injury. [3marks]

- (a) .....
- (b) .....
- (c) .....

4. Baraka and Tom are computer learners. They had a discussion on the data processing cycle in a computer.

Highlight the five stages of of data processing. [5marks]

- (a) .....
- (b) .....
- (c) .....
- (d) .....
- (e) .....

5. Kimani wanted to buy a computer for his projects at school. State two characteristics he should look for in a computer. [2marks]

- (a) .....
- (b) .....

6. Rehema wants his father to buy her a laptop since she wants to use it. Her dad doesn't want to get her

7. Mary always showed much interest in first aid. She joined the scouts' team who assist the school football team whenever they get injuries while playing. Give three career opportunities in first aid and management of injuries.

[3marks]

- (a) .....
- (b) .....
- (c) .....

8. The signs below show safety precautions. Identify the potential hazard described in the signs.

[2 marks]



- .....
- .....

9. During a school field trip, a learner was cut by the fence and was bleeding a lot. They gave him first aid before taking him to the local dispensary. State three proper first aid procedures for managing the cut.

[3marks]

- (a) .....
- (b) .....
- (c) .....

10. Oscar's aunt travelled back to Kenya from the USA and didn't know any shops she could buy clothes. List two

online sites or mobile applications from which she can buy the clothes and other goods. [2marks]

- (a) .....
- (b) .....

11. Ivy joined your school career club and she is interested in business studies. State four careers related to business studies that she can pursue.

[4marks]

- (a) .....
- (b) .....
- (c) .....

12. You visited a shop in your area that sells computers and computer applications. Identify four examples of computers sold in that shop. [4marks]

(a) .....

(b) .....

(c) .....

(d) .....

13. Ngao and her group members compiled applications of computers in various areas; education, business, home

e.t.c. State two applications of computers in education. [2marks]

(a) .....

(b) .....

14. Grade seven learners were asked to explain the importance of Pre-technical studies. State three importance of learning this learning area. [3marks]

(a) .....

(b) .....

(c) .....

15. In Kaima shopping center, there are different business activities that take place in that area. These activities involve production and distribution of goods and service. State three business activities that occur in your area.

[3marks]

(a) .....

(c) .....

16. Grade seven learners visited the public eLearning library, to research on uses of computers other than for learning. They met the library resource person and asked him a few questions on how to classify the computers in the library. Give three ways they categorise computers. [3marks]

(a) .....

(c) .....

17. It is our responsibility to practice safety when handling hand tools and equipment such as needles, hammer, and

knives. State two ways we should handle such tools. [2marks]

(a) .....

(b) .....

18. There are potential hazards in our environment. Explain what you understand by the term 'hazard'. [1



**SERIES 15**  
**SECTION A**

Answer all questions in this section

**1. A teacher at Kenya Junior School instructs Grade 7 learners to always wear protective gear while working in the workshop. Why is this important?**



- A. To improve their drawing skills
- B. To prevent injuries while handling tools
- C. To work faster than their classmates
- D. To impress the teacher

**2. A fire broke out in the school computer lab. Which fire extinguisher should be used?**

- A. Water extinguisher
- B. Foam extinguisher
- C. Carbon dioxide (CO<sub>2</sub>) extinguisher
- D. Wood powder extinguisher

**3. Mary received a message from an unknown person asking for her personal details. What should she do?**

- A. Reply and give the details
- B. Ignore and report the message
- C. Share it with her friends
- D. Call the number to confirm

**4. John wants to send an urgent official letter to his teacher using the fastest method. Which ICT tool should he use?**

- A. Fax machine
- B. Email
- C. Newspaper
- D. Post office mail

**5. A supermarket uses computers to quickly scan and calculate prices. This is because computers are:**

- A. Slow and unreliable
- B. Accurate and fast
- C. Intelligent and self-learning
- D. Expensive and difficult to use

**6. Sharon wants to save a large movie file that she can carry to school. Which storage device is most suitable?**

- A. Hard disk
- B. Flash disk
- C. DVD
- D. Blu-ray disk

**7. A farmer wants a simple computer to keep records of daily sales. Which type of computer is best for him?**

- A. Supercomputer
- B. Laptop
- C. Tablet
- D. Smartphone

**8. James uses a computer for online banking. What is the best way to secure his personal information?**

- A. Use a weak password
- B. Write his password on a notebook
- C. Use a strong password and change it regularly
- D. Share his login details with his friends

**9. A Grade 7 learner left an electric iron on and caused a fire in the home. What could have prevented this?**



- A. Using a bigger iron
- B. Leaving the iron on while sleeping
- C. Turning off the iron after use
- D. Placing the iron on a wet cloth

**10. Ann wants to start a business selling handmade baskets. What is the first step she should take?**

- A. Borrow money from friends
- B. Start selling without planning
- C. Identify a good business opportunity
- D. Ignore customers' opinions

**11. A learner in the workshop carried a chisel carelessly and injured his classmate. How should he have carried it?**

- A. Holding the sharp end
- B. Placing it in his pocket
- C. Holding the handle with the sharp end facing down
- D. Swinging it while walking

**12. Engineers use drawings before constructing a building. Why is technical drawing important?**



- A. It helps them calculate costs
- B. It ensures proper planning and accuracy
- C. It makes their work look fancy
- D. It allows them to use more tools

**13. A carpenter wants to measure and mark a straight line on a piece of wood. What tool should he use?**

- A. Saw
- B. Chisel
- C. Ruler and pencil
- D. Sandpaper

**14. Linda started a business but failed. What could be the reason?**

- A. Poor financial planning
- B. Having too many customers
- C. Being too generous
- D. Selling high-quality products

**15. A shopkeeper sold expired goods to customers. What ethical issue does this represent?**



- A. Fair trade
- B. Consumer exploitation
- C. Quality control
- D. Business expansion

**16. The part of a computer below is used in processing data. It is called?**



- A. Monitor
- B. Mouse
- C. CPU
- D. Keyboard

**17. A teacher wanted to pass important information to learners. What is the best way to communicate?**

- A. Sending an email
- B. Writing on the chalkboard
- C. Whispering to one learner
- D. Keeping quiet

**18. Why do businesses use computers for accounting?**

- A. To keep accurate records
- B. To entertain customers
- C. To confuse employees
- D. To replace workers

**19. Gudas a Grade 7 Learner made a cartoon animation using his computer. Which programming language is commonly used in creating interactive animations like the one below?**



- A. Scratch      B. Excel    C. PowerPoint    D. Word

**20. A learner received a pop-up message saying they won a free phone. What should they do?**

- A. Click the link immediately
- B. Share the message with friends
- C. Ignore and report it
- D. Send their personal details

**21. A business dumps waste in the river. What is the best solution?**

- A. Burning the waste
- B. Recycling the waste properly
- C. Ignoring the waste
- D. Using plastic bags

**22. Which ICT tool is commonly used for online learning?**

- A. Blackboard                      B. Projector
- C. Smartphone                    D. Calculator

**23. Which fire extinguisher is used for electrical fires?**

- A. Water                              B. Foam
- C. Carbon dioxide (CO<sub>2</sub>)        D. Wood powder

**24. What should be done after using sharp tools in a workshop?**



- A. Leave them on the table
- B. Store them properly
- C. Give them to a friend
- D. Hide them under a chair

**25. Grade 7 learners visited a nearby factory and saw the following sign. What do safety sign indicate?**



- A. Exit
- B. Danger
- C. Fire alarm
- D. No entry

**26. Which of the following allows computers to communicate within a school?**

- A. Flash disk
- B. Network
- C. Scanner
- D. Printer

**27. What is the most common cause of fire in the kitchen?**

- A. Overcooked food
- B. Electric faults and gas leaks
- C. Too much water in cooking
- D. Using old utensils

**28. A successful business person is usually:**

- A. Lazy
- B. Dishonest
- C. Hardworking
- D. Careless

**29. If someone gets a minor burn, what is the first step to take?**

- A. Apply toothpaste
- B. Pour cold water on it
- C. Rub it with salt
- D. Cover it with glue

**30. Why are computers important in hospitals?**

- A. To entertain patients
- B. To help doctors store and retrieve medical records
- C. To print newspapers
- D. To replace human doctors

## SECTION B

31. Define the following terms. (4mks)

a.) Safety

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b.) Computer

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c.) Communication.

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d.) Free hand sketching.

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32. List down five situations in which safety measures are observed.

**(5mks)**

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33. Give four examples of data.

**(4mks)**

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34. Give three physical threats to digital devices.

**(3mks)**

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35. State three ways one can use to keep personal and sensitive data from the public.

**(3mks)**

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36. State and explain any three characteristics of computers.

**(3mks)**

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Use the table below to correctly fill the classifications of computers based on the 37.categories given.

(6mks)

<i>Based on data handling or functionality</i>	<i>Based on size</i>	<i>Based on purpose</i>
1. 2.	1. 2.	1. 2.

38. Identify the following types of artistic drawing.

(4mks)



39. Draw the following lines used in drawing.

(3mks)

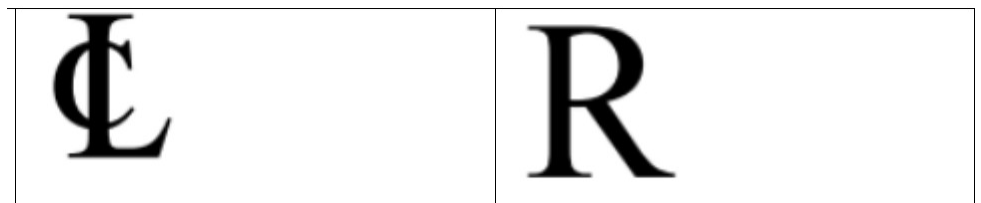
*Construction line*

*Centre line*

*Leader line*

40. Grade 7 learners wanted to use the following symbols and abbreviations in drawing.

a.) Name the drawing symbols shown below.(3mks)



\_\_\_\_\_

b.) Complete the following abbreviations used in drawing.(3mks)

- i. **A/C** \_\_\_\_\_
- ii. **I/D** \_\_\_\_\_
- iii. **O/D** \_\_\_\_\_

41. Grade 7 learners were practising free hand sketching using the following techniques.  
Name the techniques shown below. (3mks)



42. Name three ICT tools used in communication.(3mks)

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43. State three safety threats in a work environment.(3mks)



SECTION A: (20 Marks)

Use the following information to answer the following question

The head teacher of your school has asked your class to inspect the workshop and report on safety, tools, and computer usage. As a pre-technical studies student, you must apply your knowledge to complete the following questions.

1. During the workshop inspection, you notice an electrical tool left plugged in. What should you do?
  - A) Leave it as it is
  - B) Turn it off and unplug it
  - C) Test the tool to see if it works
  - D) Call a friend to check it for you
2. Which safety rule should be followed when handling sharp tools in the workshop?
  - A) Pass tools by the handle
  - B) Toss tools to your partner
  - C) Hold tools by the sharp edge
  - D) Store tools in random places
3. The school has decided to buy fire extinguishers for the workshop. Which type is best for electrical fires?
  - A) Water extinguisher
  - B) Foam extinguisher
  - C) Carbon dioxide (CO<sub>2</sub>) extinguisher
  - D) Sand bucket
4. You are given a broken ruler to measure a piece of wood. What should you do?
  - A) Use it carefully
  - B) Borrow another ruler
  - C) Estimate the length by guessing
  - D) Break it into two pieces
5. The best way to protect your eyes when using a hammer and chisel is by:
  - A) Wearing gloves
  - B) Wearing safety goggles
  - C) Looking away while working
  - D) Closing your eyes

6. A computer in the workshop is overheating and making a loud noise. What should you do?
- A) Pour water on it
  - B) Turn it off and inform the teacher
  - C) Keep using it
  - D) Open the CPU and remove the parts
7. Which tool is used to measure angles accurately?
- A) Ruler
  - B) Protractor
  - C) Compass
  - D) Set square
8. Which of the following is an example of non-verbal communication?
- A) Speaking
  - B) Writing a letter
  - C) Nodding your head
  - D) Making a phone call
9. A technical drawing that shows an object in 3D is called:
- A) Artistic drawing
  - B) Isometric drawing
  - C) Freehand drawing
  - D) Plane geometry
10. In a workshop, which of the following is NOT considered personal protective equipment (PPE)?
- A) Safety goggles
  - B) Earplugs
  - C) Apron
  - D) Flip-flops

SECTION B: 80 Marks)

Your class has been given a project to build a strong and safe wooden table for the workshop. You must follow technical instructions, use the right tools, and ensure safety measures.

11. List three safety precautions you should observe when working on the workshop table. (3 marks)
- a) \_\_\_\_\_
  - b) \_\_\_\_\_
  - c) \_\_\_\_\_
12. Why is it important to wear gloves when handling rough wood? (2 marks)

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13. Describe the role of a fire extinguisher in the workshop. (3 marks)

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14. Identify two emergency safety measures in case of an accident. (2 marks)

- a) \_\_\_\_\_
- b) \_\_\_\_\_

15. What is the difference between technical drawing and artistic drawing? (3 marks)

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16. Sketch and label a right-angled triangle used in measuring and construction. (3 marks)

17. Name two drawing instruments used to create accurate workshop designs. (2 marks)

- a) \_\_\_\_\_
- b) \_\_\_\_\_

18. Why is neatness important in technical drawing? (2 marks)

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19. Define plane geometry and give an example of a plane shape. (3 marks)

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20. A workshop bench has a rectangular top measuring 1.5m by 0.8m. Calculate the area. (3 marks)

21. What is the perimeter of a square workshop stool with a side length of 0.5m? (2 marks)

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22. Identify one use of a compass in technical drawing. (2 marks)

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23. List three basic components of a computer. (3 marks)

- a) \_\_\_\_\_
- b) \_\_\_\_\_
- c) \_\_\_\_\_

24. What is the function of a CPU in a computer system? (2 marks)

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25. Name two input devices used in a computer system. (2 marks)

- a) \_\_\_\_\_
- b) \_\_\_\_\_

26. How does ICT help in designing technical drawings? (3 marks)

- \_\_\_\_\_

- \_\_\_\_\_

27. Define effective communication in a work environment. (2 marks)

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28. List two barriers to effective communication. (2 marks)

- a) \_\_\_\_\_
- b) \_\_\_\_\_

29. Identify three ICT tools used for communication in the workshop. (3 marks)

- a) \_\_\_\_\_
- b) \_\_\_\_\_
- c) \_\_\_\_\_

30. Explain why entrepreneurs in pre-technical fields need financial planning. (3 marks)

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