



**THE KENYA NATIONAL EXAMINATIONS COUNCIL**

Qualification Code : 072305T4FSH  
Qualification : Fashion Designer Level 5  
Unit Code : FAS/OS/FD/CR/01/5/A  
Unit of Competency : Perform Sewing Machine Operations

**WRITTEN ASSESSMENT**

**Instructions to candidate**

1. You have **THREE** hours to answer all the questions.
2. The paper consists of **three** sections; **A, B** and **C**.
3. A separate answer booklet will be provided.
4. Do not write on this question paper.
5. Marks for each question are indicated in the brackets.

**SECTION A: 20 MARKS**

*Attempt all questions in this section. Choose the correct answer and write it in the answer booklet provided*

1. Which of the following personal protective equipment is used in sewing machine operation workshop? (1 mark)
  - A. Gumboots
  - B. High heeled shoes
  - C. Dustcoat
  - D. Helmet
2. Select item that may be found in a first aid box. (1 mark)
  - A. Pair of scissors
  - B. Machine needle
  - C. Screw driver
  - D. Thimble
3. Choose the correct group of sewing machine tools among the following; ( 1 mark)
  - A. Tweezers, trimmer, pliers
  - B. Pliers, thimble, screw driver
  - C. Shears, machine needle, pliers
  - D. Screw driver, tweezers, pliers
4. Which among the following best explains function of a fire extinguisher? (1 mark)
  - A. To ignite fire
  - B. To light a room
  - C. To put off fire
  - D. To protect he room
5. A seam ripper is used for \_\_\_\_\_. (1 mark)
  - A. taking out stitches
  - B. Holding two pieces of fabrics together
  - C. Marking fabric
  - D. Separating seams

6. Which among the following types of accidents is odd one out? (1 mark)
- A. Shocks
  - B. Headache
  - C. Burns
  - D. Cuts
7. Identify a benefit of servicing a sewing machine. (1 mark)
- A. Reduced speed
  - B. Reduced cost of sewing machine
  - C. Minimal breakdown of machine
  - D. Good appearance
8. Which of the following activities is done before operating a sewing machine? (1 mark)
- A. Covering a sewing machine
  - B. Switching off the power source
  - C. Winding the bobbin
  - D. Keeping tools and equipment
9. Choose one advantage of using a stainless steel scissor. (1 mark)
- A. Looks new
  - B. Its sharp
  - C. Its soft
  - D. Does not rust
10. What consists of the upper tension unit of a sewing machine? (1 mark)
- A. Presser bar, needle bar and dial
  - B. Rotary oscillating hook
  - C. Disc spring and dial
  - D. Presser bar, needle bar, disc spring and dial
11. When should a sewing machine be oiled when doing mass production? (1 mark)
- A. Daily
  - B. Weekly
  - C. Monthly
  - D. Annually

12. Which of the following is a way to avoid injury from pins and needles in the workshop? (1 mark)
- A. Leave pins in the fabric when sewing
  - B. Keep pins in the mouth
  - C. Dispose broken pins and needles in sealed container
  - D. Avoid shoes in the sewing area
13. What may happen if the bobbin is too full? (1 mark)
- A. The bobbin will not fit in the bobbin case
  - B. The machine will run heavily
  - C. The needle will bend
  - D. The thread tension will loosen
14. Before replacing a presser foot, what should be done? (1 mark)
- A. Turn on the sewing machine
  - B. Lower the needle to the lowest point
  - C. Align the presser foot with presser bar
  - D. Remove the presser foot
15. The following are roles of a sewing machine operator, which one is not? (1 mark)
- A. Keeping the machine
  - B. Assembling parts of a machine
  - C. Servicing the machine
  - D. Switching off the machine
16. Which among the following is a sewing machine operation material (1 mark)
- A. Tweezers
  - B. Allan keys
  - C. Fabric
  - D. Screw driver
17. Which machine is used to neaten raw edges of a fabric (1 mark)
- A. Sewing machine
  - B. Button hole machine
  - C. Loop stitches
  - D. Over lock machine

18. Why is safety in the workshop important? (1 mark)

- A. To prevent unnecessary accidents
- B. To keep the workshop clean
- C. To store tools
- D. To minimise wastage of resources

19. Identify among the following the function of a shuttle. (1 mark)

- A. To hold reel of thread while sewing
- B. It facilitates the locking of upper and lower thread
- C. It used to cover the bobbin case
- D. To protect bobbin case

20. What does bobbin winding mean? (1 mark)

- A. To hold reel of thread on the bobbin
- B. To remove reel of thread on the bobbin
- C. To hold reel of thread on the bobbin case
- D. To remove reel of thread on the bobbin case

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**SECTION B: (40 MARKS)**

*Answer all questions in this section*

21. Define each of the following terms used in sewing machine operations (3 marks)
- Sewing machine
  - Workshop
  - Maintenance
22. Give **four** benefits of sewing machine maintenance (4 marks)
23. State **three** equipments found in sewing machine operation workshop (3 marks)
24. List **three** legal requirements for a garment construction workshop (3 marks)
25. State **four** circumstances you may be required to turn off the main power and remove the plug of a sewing machine (4 marks)
26. Identify **three** ways of caring for a sewing machine (4 marks)
27. Differentiate between **electric** and **manual** sewing machine (6 marks)
28. State **three** causes of accidents in a workshop (3 marks)
29. Name **three** tools used for cleaning a sewing machine (3 marks)
30. Identify **four** factors to consider when purchasing a sewing machine (4 marks)
31. State **four** points on how to maintain the sewing machine (4 marks)

**SECTION C: EXTENDED RESPONSE QUESTIONS (40 MARKS)**

*Attempt TWO questions in this section*

32. Draw a sewing machine and label **ten** parts (20 marks)
- 33.
- a) Explain **five** machine faults giving their cause and remedy in each case (15 marks)
  - b) Outline **five** sewing machine operation tasks (5 marks)
34. Outline each of the following steps of setting up a sewing machine:
- a) Winding the bobbin. (5 marks)
  - b) Threading the bobbin. (5 marks)
  - c) Threading the upper thread (5 marks)
  - d) Bringing the bobbin thread up. (5 marks)

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