

<b>NAME</b> _____	<b>INDEX</b> _____
<b>SCHOOL</b> _____	<b>DATE</b> _____

## FARM POWER AND MACHINERY

**1. 1995**

(a) States four advantages of farm mechanization (2 marks)

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(b) Give the functions of each of the following parts of a mould board plough. (4 marks)

- (i) Mould board  
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- (ii) Share  
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- (iii) Frog  
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- (iv) Landslide.  
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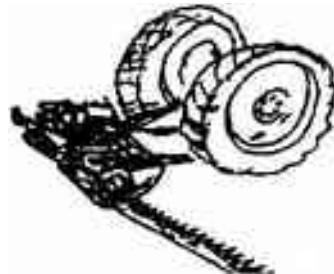
(c) Give two daily maintenance practices that should be carried out on a mould board plough. (2 marks)

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**2. 1995**

The diagram below is a tractor drawn implement hitched at the rear of the tractor.



(i) Identify the implement (1 mark)

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(ii) What is the method of power transmission for operating the implement? (1 mark)

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(iii) State three maintenance practices that should be carried out on the implement. (3 marks)

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**3. 1996**

a) Compare the use of an ox-drawn mould board plough with that of a tractor-drawn mould board plough. (9 marks)

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b) Describe the maintenance practices that should be carried out on an ox-drawn mould board plough (6 marks)

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c) What are the advantages and disadvantages of using tractor hire service farming instead of owning and using your own tractors. (5 marks)

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4. 1997

a) State two reasons of applying oil and grease on a rotary mower. (2 marks)

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b) State four maintenance practices required on a rotary mower besides oiling and greasing. (2 marks)

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c) State four factors that a farmer should consider before buying a tractor for use as the source of power on the farm. (2 marks)

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5. 1999

a) Give two uses of ox –drawn harrow (2 marks)

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b) Give two maintenance practices of a ox-drawn tine harrow. (2 marks)

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c) State two advantages of an ox- drawn harrow over tractor-drawn harrow. (2 marks)

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**6. 2000**

Outline four maintenance practices of a disc harrow. (2 marks)

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**7. 2001**

a) State one method of increasing ploughing depth when using a disc plough.

(1 mark)

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b) State two reasons for maintaining a disc plough, (2 marks)

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c) State three advantages of farm mechanization. (3 marks)

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**8. 2003**

a) State two functions of a coulter in a mould board plough. (2 marks)

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b) Give three maintenance practices carried out on an ox-drawn trailer. (3 marks)

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**9. 2004**

a) State two problems associated with tractor hire service that farmers encounter.

(1 mark)

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b) List four implements used to carry out secondary cultivation. (2 marks)

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**10. 2005**

a) State one condition under which a farmer would prefer to use an ox-cart instead of a tractor-drawn trailer.

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b) Give three maintenance practices carried out on an ox-plough., (3 marks)

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**11. 2006 Q4 P2**

State four functions of lubrication system in a tractor. (2 marks)

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**12. 2006 Q5 P2**

Give four maintenance practices carried out on the water cooling system of a tractor. (2 marks)

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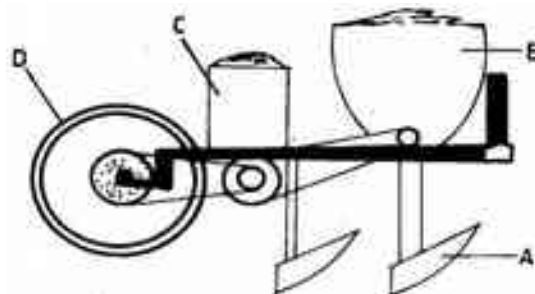
**13. 2006 Q6 P2**

State reasons why a farmer would choose to use a disc plough rather than a mould board plough. (2 marks)

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**14. 2006 Q18a P2**

(a) A diagram of a planter is shown below. Study it and answer the questions that follow.



(i) Identify the parts labelled A, B, C, and D, (2 marks)

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(ii) State two maintenance practices carried out on the planter. (2 marks)

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**15. 2006 Q24 P2**

a) What are the advantages of farm mechanization? (6 marks)

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b) Explain the differences between a two stroke and a four stroke cycle engine. (6 marks)

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c) Outline the daily maintenance practices that should be carried out on a farm tractor (8 marks)

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**16. 2007 Q12 P2**  
State three adjustments that should be carried out on a tractor – mounted  
moulboard plough in preparation for ploughing. (1 ½ marks)

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**17. 2007 Q15 P2**  
List four sources of farm power which are environmental friendly. (2 marks)

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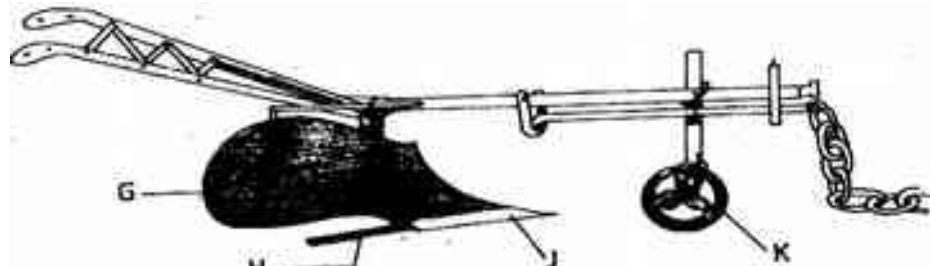
**18. 2007 Q17 P2**  
Name four systems of a tractor engine. (2 marks)



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**19. 2007 Q23 P2**

The diagram below shows a farm implement. Study it and answer the questions that follow.



- a) Identify the farm implement illustrated above. (1 mark)

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- b) Name the parts labelled G, H, J and K.

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- c) State four functions of the farm implement illustrated above. (2 marks)

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**20. 2007 Q25 P2**



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21. **2008 Q10 P2**  
What is the function of the draw bar of a tractor? (½ mark)

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22. **2008 Q11 P2**  
Name two types of air cleaners used in tractors. (1 mark)

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23. **2008 Q18 P2**  
Give three uses of biogas in a farm. (1½ marks)

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24. **2008 Q31 P2**  
a) Describe how the following tractor components are used to attach implements to the tractor:  
i) Three(3) point linkage/hitch (6 marks)

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ii) Power Take Off shaft (P.T.O) (4 marks)

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25. 2009 Q9 P2 State four limitations of using hydroelectric power on the farm (2 marks)

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26. 2009 Q24a,b P2 (a) Outline five benefits of using biogas as a source of power on the farm (5 marks)

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(b) Give five advantages of using a subsoiler in seedbed preparation (5 marks)

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27. **2010 Q11 P2**  
Give **three** reasons for carrying out maintenance practices on a mower (1½ marks)

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28. **2010 Q12 P2**  
Give **three** limitations of using solar power on the farm. (½ mark)

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29. **2010 Q13 P2**  
Why is it important to have a thermostat on a cooling system of a tractor engine?  
(1 mark)

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**30. 2010 Q14 P2**

Give two advantages of using a disc plough over a mouldboard plough in primary cultivation. (1 mark)

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**31. 2010 Q27b P2**

(b) Explain how the power transmitted from a tractor engine is made available for use on the farm under the following subheadings:

(i) propeller shaft; (2 marks)

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(ii) power take off (P.T.O) shaft; (2 marks)

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(iii) hydraulic system. (2 marks)

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**32. 2011 Q7 P1**

Give three factors that should be considered when choosing the type of labour to use on the farm. (1½ marks)

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**33. 2011 Q1 P2**  
State four maintenance practices for a disc plough. (2 marks)

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**34. 2011 Q3 P2**  
State four advantages of using animals instead of tractors as a source of power on the farm. (2 marks)

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**35. 2011 Q7 P2**  
State three maintenance practices for a tractor battery. (1½ marks)

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**36. 2011 Q16 P2**  
Name the strokes in a four stroke cycle engine. (2 marks)

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