

BABA BANDA SINGH BAHADUR ENGG. COLLEGE, FATEHGARH SAHIB

Question Bank

SUBJECT: - TRACTOR SYSTEMS, CONTROL & OPERATION

SECTION A

1. Describe briefly the function of ROPS.
2. What steps are followed for stopping a tractor?
3. Enlist the main components of braking system.
4. What is top end overhauling?
5. Describe briefly the function of final drive.
6. What factors can be implemented to improve fuel efficiency in tractors?
7. Enlist the main components of steering system.
8. Differentiate between dry brakes and wet brakes.
9. Why engines need Top End overhaul?
10. What factors can be implemented to improve fuel efficiency in tractors?
11. Write short note on preparing tractor for storage.
12. Differentiate between dry brakes and wet brakes.
13. Why tractor needs a clutch and draw the neat sketch of Single plate clutch system?
14. Define
 - a. Toe in & toe out
 - b. Camber angle
15. Write short note on
 - a. Power take off unit
 - b. Draft Control
16. Draw the sketch of hydraulic brake system.

SECTION B (2 X 4)

2. Describe the construction and working of synchromesh gearbox of tractor.
3. Describe briefly the Tractor chassis mechanics.
4. Explain the procedure followed to prepare tractor for storage. Discuss about the safety features included in tractors.
5. Explain principle of operation and working of hydraulic brakes with neat sketch.
6. Discuss about the safety features included in tractors.
7. Describe briefly about the importance of ergonomics in Tractors.
8. Describe the daily checkpoints for starting and safety in tractors?

SECTION C

9. Explain in detail about the maintenance procedure of tractor after 100 hours of operation
10. Explain the constructional parts and working of Tractor Differential with the help of diagram.
11. Describe the maintenance procedure of tractor after 250 hours of operation.
12. Describe the maintenance procedure of tractor after 500 hours of operation.

