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Daffodil International University

Department of Agricultural Science, Semester: Fall 25

Course Code: 08191101 Course Title: Farm Power and Machinery

Level & Term: L-1, T-1 Section: B+C Course Teacher: MAR

Second Class Test Exam **Time: 50 Minutes** **Full Marks: 15**

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1 What are the objectives of tillage? Differentiate between disc plough and disc harrow. 3

2 Define field capacity and field efficiency of a machine with mathematical expression. What are the factors affecting the field capacity and efficiency of a machine? 4

3 How do you determine annual cost of a combine harvester? 3

4 Calculate the effective field time in hr/ha of a 3-bottom 45 cm mould board plough when operated by a tractor at a forward speed of 6 km/hr to cultivate 8 ha land. 20% time is lost for turning and other reasons. If the tractor hiring cost with labour and implements is Tk 200 per hour, what will the cost of tillage for this land be? 5