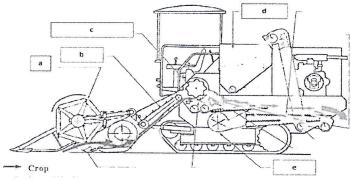
UNIVERSITY OF RUHUNA THIRD EXAMINATION IN B.Sc AGRICULTURAL RESOURCE MANAGEMENT & TECHNOLOGY (PART II) MAY- 2022

Training in Agricultural Machinery (EN3202)	Time: 1hour
Index No:	
Answer all questions.	
Mark the correct answer by placing " ✓ for MCQ.	
No calculators are permitted.	
Answer all questions in the structured and theory part	

Part-01- MCQ type; (30 Marks)

1. Identify A, B, C and D in the given diagram.

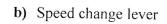


- a) a-Reel, b-Conveyor, c-Threshing Cylinder, d-Grain Tank, e-Blower
- b) a-Cutter Bar, b-Conveyor, c-Concave, d-Grain tank, e-Blower
- c) a-Reel, b-Conveyor, c-Concave, d-Grain Tank, e-Sieve
- d) a-Cutter Bar, b-Conveyor, c-Threshing Cylinder, d-Grain Tank, e-Sieve
- 2. Select the **incorrect** statement about the components of engine cooling system.
 - a) Radiator is the main heat exchanger in direct type air cooling systems
 - b) Lower and upper hoses are used to connect the radiator with engine
 - c) Function of the radiator is transfer heat from coolant to the atmosphere
 - d) Core tubes are located between tanks of the radiator
- 3. Which of the followings is four-wheel tractor operated primary tillage implement?
 - a) Leveling Board.
 - b) Spike tooth harrow
 - c) Japanese reversible Mould board plough
 - d) Disk plough

4. Which of the followings is two-wheel tractor operated secondary tillage implement?
a) Disk harrowb) Tine Tillerc) Blade harrowd) Japanese reversible Mould board plough
 5. Select the capacity of the fuel tank of Kubota K75 power tiller a) 6.0L b) 6.5L c) 7.5L d) 8.0L
 6. Select the engine oil type of Kubota K75 power tiller a) S.A.E. 30 or 40 b) S.A.E. 50 or 60 c) S.A.E. 70 or 80 d) S.A.E. 90 or 100
 7. Select the gear box oil type of Kubota K75 power tiller a) S.A.E. 30 b) S.A.E. 40 c) S.A.E. 60 d) S.A.E. 90
8. Decompression lever is used to,
 a) make starting of the tractor is easier b) application break for wheels c) operate the clutch mechanism d) power transmission from tractor to rotovator e) operate steering clutch lever
9. Number of cylinders available in the engine of KUBOTA two-wheel tractor model K75 is
a) 5 b) 4
c) 3
d) 1 10. The main function of a throttle lover is
10. The main function of a throttle lever is,(a) to start the tractor
(b) to change the gear
(c) to steering of tractor(d) to accelerate and decelerate the engine

Part-02- Sstructured type (35 Marks);

1.	Write down the functions of following levers in two-wheel tractors.
a)	Main clutch lever

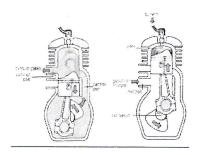


d) Steering clutch levers

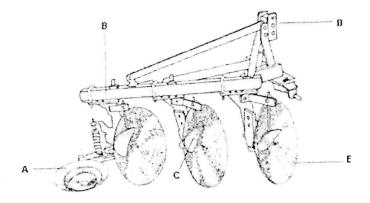
e) Throttle lever

Part-03- Essay type (35 Marks);

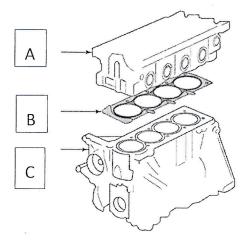
- 1. Briefly explain the function of a <u>Crank shaft</u> in Internal Combustion engines.
- 2. Identify the following engine cycle and breafly describe.



- 3. What is the purpose of lugs type tyres?
- 4. Identyfy the functions of following plough parts.



5. A view of an engine components is shown in the following figure.



Briefly explain the functions of the component 'B'.