

Unit 9 - Week 7

Course outline

How to access the portal?

Week 0 Assignment 0

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

- Lecture 32 : Farm machines for interculture operation
- Lecture 33: Performance of weeding blades of a push-pull weeder
- Lecture 34 : Advanced level machinery for inter and intra row weeding
- Lecture 35 : Tractor mounted contact type microcontroller based improved variable rate herbicide applicator
- Lecture 36: Design of manually operated weeding equipment

○ Quiz : Assignment 7

○ Feedback for week 7

Week 8

Week 9

Week 10

Week 11

Week 12

DOWNLOAD VIDEOS

Details Solution

Text Transcripts

Live Session

Assignment 7

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-09-18, 23:59 IST.

- 1) The blade of hand hoe (Khurpa) are made up of carbon steel having a percentage of carbon in the range of **2 points**
- a) 0.2-0.4 %
 - b) 0.5-0.8%
 - c) 0.9-1.2%
 - d) 1.3-1.5%

No, the answer is incorrect.

Score: 0

Accepted Answers:
b) 0.5-0.8%

- 2) The weeding operation involving living organisms, such as insects, nematodes, bacteria, or fungi, to reduce weed populations is known as **2 points**
- a) Chemical weeding
 - b) Mechanical weeding
 - c) Flame weeding
 - d) Biological weeding

No, the answer is incorrect.

Score: 0

Accepted Answers:
d) Biological weeding

- 3) For proper cutting of weed roots, the mathematical relationship between the tangential force (F_t) and the frictional force (F_f) is given by **2 points**
- a) $F_t > F_f$
 - b) $F_t = F_f$
 - c) $F_t < F_f$
 - d) There is no relationship

No, the answer is incorrect.

Score: 0

Accepted Answers:
a) $F_t > F_f$

- 4) The sweep angle of a sweep type weeding tyne ranges between **2 points**
- a) 12° and 20°
 - b) 20° and 30°
 - c) 1° and 10 °
 - d) 30° and 45°

No, the answer is incorrect.

Score: 0

Accepted Answers:
a) 12° and 20°

- 5) For determining performance index of different weeder blade, which parameters are need to we considered **2 points**
- a) Quality of weeding work done
 - b) Quantity of weeding work done per unit time
 - c) Average power used in weeding operation
 - d) All of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:
d) All of the above

- 6) In digital image processing, the correct statement is given by: **2 points**
- a) G intensity > B intensity & G intensity < R intensity
 - b) G intensity > B intensity & G intensity > R intensity
 - c) G intensity < B intensity & G intensity > R intensity
 - d) G intensity < B intensity & G intensity < R intensity

No, the answer is incorrect.

Score: 0

Accepted Answers:
b) G intensity > B intensity & G intensity > R intensity

- 7) For designing the handle height of a manually operated wheel hoe, the anthropometric parameter is called **2 points**
- a) Knee height
 - b) Elbow height
 - c) Metacarpal-III height
 - d) Acromial height

No, the answer is incorrect.

Score: 0

Accepted Answers:
d) Acromial height

- 8) A manually operated wheel hoe is operated at 1.2 km/h and the height of the handle from the center of the wheel is 920 mm. If the angle of inclination (θ) of the handle of the wheel hoe with vertical is 60, then the length of the handle is equal to: **2 points**
- a) 184 cm
 - b) 195 cm
 - c) 190 cm
 - d) 192.5 cm

No, the answer is incorrect.

Score: 0

Accepted Answers:
a) 184 cm

- 9) Type of mechanical weeding tool mostly suitable for low land paddy field is known as **2 points**
- a) Wheel hoe
 - b) Duck foot type
 - c) Cono weeder
 - d) Double plough type

No, the answer is incorrect.

Score: 0

Accepted Answers:
c) Cono weeder

- 10) An ultrasonic sensor is a sensor that measures the distance of an object using **2 points**
- a) Infrared radiation
 - b) High-frequency sound pulse
 - c) Light waves
 - d) Magnetic pulse

No, the answer is incorrect.

Score: 0

Accepted Answers:
b) High-frequency sound pulse