

Unit 13 - Week 11

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Assignment 11

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

Due on 2019-10-16, 23:59 IST.

- 1) **The well-known theory for the design of a threshing cylinder is given by** 1 point
- a) Luis
b) Duffee
c) Goryachkin
d) Maxwell
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
c.
- 2) **In a combine harvester, the sum of the cylinder, walker and shoe losses is designated as** 1 point
- a) Total loss
b) Processing loss
c) Direct loss
d) Non-processing loss
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
b.
- 3) **A wheat thresher equipped with spike tooth type cylinder is operating at a peripheral speed of 25 m/s and the feed rate of wheat is 4500 kg/h. The coefficient of friction of wheat crop is 0.7 and the machine operating constants A and B are 6 N/spike and 0.055 N.s²/m² respectively. If the speed of material over the threshing cylinder at a given time during the threshing process is 25m/s, then the approximate total power requirement of such a thresher is given by** 1 point
- a) 1.0 kW
b) 2.6 kW
c) 3.6 kW
d) 4.2 kW
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
c.
- 4) **In a thresher, if the feed rate of a crop increases then the grain damage observed in the process** 1 point
- a) Increases linearly
b) Decreases linearly
c) Increase exponentially
d) Remain constant
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
b.
- 5) **A thresher drive shaft rotates at 800 rpm with an applied torque of 4.5 kgf-m. If the belt slippage is taken as 10%, then the total power required to operate the thresher is given by** 0 points
- a) 3.67 hp
b) 4.04 hp
c) 6.38 hp
d) 7.03 hp
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
d.
- 6) **The most appropriate conservation tillage practice for arid and semi-arid regions is known as** 1 point
- a) Mulch tillage
b) Zero tillage
c) Minimum tillage
d) Deep tillage
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
a.
- 7) **A multi-crop thresher was tested for threshing Bengal gram. If the total crop input is 600 kg/h and the unthreshed grain obtained from all outlets is 12 kg/h, then the threshing efficiency would be given by** 1 point
- a) 96 %
b) 97 %
c) 98 %
d) 98.5 %
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
c.
- 8) **The percentage of carbon in wrought iron ranges between** 1 point
- a) 0.02 to 0.03 %
b) 2.00 to 3.00 %
c) 3.00 to 4.00 %
d) 0.25 to 0.50 %
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
a.
- 9) **The cutter bar of a reaper is generally made of steel having carbon content in the range of** 1 point
- a) 0.01-0.1 %
b) 0.1-0.45 %
c) 0.45-0.7 %
d) 0.7-0.95 %
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
d.
- 10) **The process of introducing additional carbon into the outer shell of a steel piece is known as** 1 point
- a) Hardening
b) Tempering
c) Case hardening
d) Annealing
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
c.