MCQ on Farm Machinery & Equipment- II

	1110	on rum muchmery & Equipment II	
	seed discharge f hoe is called :-	From the rear of the machine either in straw or in the material	from
a)	Cylinder loss	b) Walker losses(rack loss)	
C)	Shoe loss	d) Gathering losses	

ANS:-(a)

- 2. Free (threshed) seed carried over the Walker or rack in straw and discharge from the rear of machine is called as:
 - a) Cylinder loss b) Walker losses (rack loss)
 - C) Shoe loss d) Gathering losses

Ans:-(b)

- 3. Free (threshed) seed carried over straw discharge from the rear of shoe is called:
 - a) Cylinder loss b) Walker losses (rack loss)
 - C) Shoe loss d) Gathering losses

Ans:-(C)

- 4. Speed of the cutter bar in case of combine (grain) is :
 - a) 400 550 rpm b) 500 800 rpm C) 800 1000 rpm d) 1000 1200 rpm

Ans:-(a)

- 5. The ratio of real peripheral speed to forward speed of combine is called :
 - a) Velocity indexb) Angular velocity indexC) Reel speed indexd) kinematic index

Ans:-(C)

- 7. Pick up reels are very effective in :
 - a) Cutting of upright crops
 - b) Lifting of lodged (down) crops ahead of cutter bar
 - C) Both (a) and (b) are true
 - d) None of the above

Ans:-(c)

Drillability of fertilizer is proportional to the kinetic energy of repose		
a) Inverselyb) Directlyc) Unaffected) None of t		
Answer (a	a)	
For a given application rate the number of droplet is inversely proportional toof the diameter of droplets.		
A) Square	b) cube	
C) one fifth	d) none of the above	
Answer: b		
Capacity of field choppe	rs (chaff cutter) is affected by	
(a)capacity of the feed m	nechanism (cross sectional area)	
(b)Rate of advance of m mechanism	naterial through throat considered as to be the same linear speed of feed	
(c) density of forage mat	erial	
(d) all of the above		
Answer:(d)		
Pods, heads or ears and f	free seeds, lost during the cutting and conveying operations are called as	
(a)cylinder loss	(b) walker loss (rack loss)	
(c)shoe losses	(d)gathering loss	
Answer: gathering losses		
Unthreshed seed discharged from the rear of the machine either in straw or in the material from the cleaning shoe is called		
(a)cylinder loss	(b)walker loss (rack loss)	
(c)shoe loss	(d) gathering loss	
Answer: cylinder loss		
Free (threshed) seed carried over the walker or rack in straw and discharge from the rear of machine is called as		
(a) Cylinder loss(c) Shoe loss	(b) walker loss(rack loss)(d) gathering loss	

Free (threshed) seed carried over the straw discharged from the rear shoe is called as Cylinder loss (b)walker loss (rack Loss) (a) Shoe loss (d) gathering loss (b) Answer: shoe loss Speed of the cutter bar in case of combine (grain) is (a)400-550 rpm (b) 500-800rpm (c)800-1000rpm (d) 1000-1200rpm Answer:400-500 rpm The ratio of reel peripheral speed to forward speed of combine is called (a)velocity index (b)angular velocity index (c)reel speed index (d) kinematic index Answer: reel speed index Increasing concave length_____ seed separation at diminishing rate a) Increases b) Decreases d) None of the c)No effect Answer: Increases Increased amount of non-grain material on the shoe appreciably_____ the shoe loss a) Decreases b) Increases c) Unaltered d) Equal Answer: Increases Increase in grain/non-grain ratio on the straw walker, _____the straw walker losses a) Decrease b) Increase c)Unaltered d) None of the above Answer: Decrease Increase amount of non-grain material on the straw walker _____ the walker losses a) Decreases b) Increases c) Unaffected d) Equal

Answer: walker loss

Answer: Increases

Increasing the grain/non-grain ratio of	n shoe tends to the shoe losses	
a) Decrease	b) Increase	
c)Decrease or increase	d) Equal	
Answer: Decrease		
Increasing the cylinder speed result in	1	
 a) Increase threshing efficiency b) Reduce cylinder loss c) Increase seed damage d) All of the above Answer: All the above Increasing non-grain feed rate inc a) Cylinder losses c)Both (a) and (b) Answer: Cylinder losses 	rease b) seed damage d) none of the above	
Q. Lenght of cutter bar for the tractor ope	rated mower or vertical conveyor reaper is	
(a) 1.5-3.0m	(b) 3.0-4.5m	
(c)4.5-5.5m	(d) > 5.5 m	
Ans:- a		
Q. To over come the rear ward deflection	the load given to outer end of the cutter bar is about	
(a)1.57cm/m	b) 2.0cm/m	
(b)3.0cm/m	d) 3.5cm/m	
Ans:- b		
4.345- Excessive stalk deflection particul	arly when cutting close to ground results in	
(a) Stubbles of uneven length		
(b) Increased tedency of stalk to cut by cu	utting unit	
(c) Less unevenness in cutting		
(d) Less missing or uncut stalk		
Ans:- a		
4.346- Side deflection of stalk can be minimized by		
(a) Having a short cutting stroke		
(b) Having an arrangement to obtain two cuts per stroke		

(c) Both (a) & (b)
(d) None of the above
Ans:-c
4.347- Length of cut (chopping length) can be adjusted
(a) Changing the speed of feed mechanism
(b) The number of knives on feed mechanism
(c) Changing speed of cutter head
(d) All of the above
Ans:-d
3.348- Capacity of field choppers (chaff cutter) is affected by
(a) Capacity of the feed mechanism (cross-sectional area)
(b) Rate of advance of material through throat considered as to be same linear speed of feed mechanism
(c) Density of forage material
(d) All of the above
Ans:- d
4.349- Pods, heads or ears & freeseeds, lost during the cutting & conveying operation are called as
(a) Cylinder loss
(b) Walker losses (rack loss)
(c) Shoe losses
(d) Gathering loss
Ans:- d
6. Flat bat reels are widely used because:-
a) This works well in lodged crop
b) This is simpler and less expensive than pick up reels
C) This works well in upright crops
d) Both (b) and (c)

Ans:-(d)

V-shaped sweeps are best suited for

- a) Primary tillage b) Stubble mulch tillage
- c) Rotary tillage d) Minimum tillage

Ans:b

- 2.A Tillage implement moving at a constant velocity is subjected to
- a) Force of gravity b) Soil force (resistance)
- c) Pull of mower d) All of the above

Ans: d

- 3. Forces which a tool must overcome in cutting, breaking and moving the soil is called
- a) Useful soil resistance b) Parasitic force
- c) Draft of implement d) Pull of implement

Ans: a

4. Force (including rolling resistance friction) that acts upon the stabilising surfaces such landslide

and sole of bottom are called

- a) Useful soil resistance b) Parasitic force
- d) Draft of implement. d) Pull of implement

Ans:b

- 5.Under a given set of operating conditions, the designer and operator has some control of
- a)Useful soil resistance b) Parasitic Force
- c)Draft of implement d) Pull of implement

Ans:b

6. which stage represents optimum conditions for tillage

- a) Sticky b) Plastic
- c) Friable (crumbly).d) Hard (cemented)

Ans:c

- 1) Formula for average service life of belt at a given speed is
 - a) Life(hrs)= [Belt length (mm)/ Total fatique rates]*100
 - b) Life(hrs)=[Total fatique rates / Belt length (mm)]*100
 - c) Life(hrs)=[Belt length (m)/ Total fatique rates]*100
 - d) None of the above

Answer- A

- 2) Chain drives are stable for
 - a) Constant speed ratio between parallel shafts
 - b) Distance between centre to centre is moderate
 - c) Dirty and dusty environment
 - d) All of the above

Answer- D

- 3) Loading capacity of chain drive system is based on
 - a) Rate of wear
 - b) Ultimate strength of chain material
 - c) None of (a) and (b)
 - d) Both (a) and (b)

Answer- A

- 4) Rate of wear chain drive system
 - a) Directly related to speed of chain
 - b) Inversely related to size of sprocket of chain length
 - c) Both (a) and (b)
 - d) None of the above

Answer- C

- 5) Tension on slack side in case of chain drive
 - a) Lesser than on tight side
 - b) Greater than on tight side
 - c) Zero
 - d) Equal to that on tight side

Answer- C

- 6) Needle bearing a roller bearing having a number of smaller diameter roller is well suited to
 - a) Application involving oscillating motion
 - b) Exceptionally high load capacity application at low peripheral speed
 - c) Both (a) and (b)
 - d) None of the above

Answer- C

- 7) V-belt drive transmission system is used when it is designed to achieve
 - a) High speed ratio
 - b) Space requirements are limited
 - c) Both (a) and (b)
 - d) None of the above

Answer- C

Cutting speed of the impact type cutter is

- a)10-20 m/s. b)20-40m/s
- c)40-50m/s. d)46-56m/s

Ans - d

- 4.267 .Double knives movers offers advantage over conventional mower are
- a)Double knife are dynamically balanced
- b) They can be operated at higher forward speeds then conventional mower
- c)They produce more uniform stubble height
- d)All of the above

Ans-d

- 4.268 . knives of the cutter bar are scrratedin order to
- a)Increase the co-efficient of friction between crop stalk machine
- b)Reducing the deflection of stalk side ways
- c)To increase the cutting speed
- d)To improve cutting height

Ans- a

4.269 .Crank speed on th	e mower with conventional pit man drive is
a)850-1000 rpm	b)1000-1200rpm
c)800-1150rpm	d)1200-1600 rpm
Ans- a	
4.270 . Crank speed on the	ne mower with dynamically balanced systems
a)850-1000rpm.	b)1000-1200rpm
c)850-1150rpm.	d)1200-1600rpm
Ans- b	
4.271. Improved unifor vertical.	mity is obtained if seed tube is inclined rear ward at with
a)5-15°	b)15-30°
c)30-40°	d)40-50°
Ans- b	
4.272 . Closer group space	eing and accurate hill spacing is obtained with
a) Rotary valve	b) Transfer wheel
c)Both a & b	d)All of the above
Ans- c	
Q. Stroke bore ratio for t	cractor engine is
(a) 1.25	(b) 1.45
(c) 1.75	(d) 2.00
A:- (a)	
Q. When displacement vo	olume is divided by piston displacement, what will we obtained
(a) number of cylinders	
(b) number of power stro	ke per minute for all cylinders
(c) number of revolution	of the crankshaft (engine)
(d) number of revolution	of crankshaft \times number of cylinder
A:- (b)	
Q. Firing order of a six c	ylinder engine in which no two adjacent cylinder have power stroke is
(a) 1 5 3 6 2 4	

(b) 1 2 3 4 5 6	
(c) 1 5 4 6 3 2	
(d) 1 4 2 5 6 3	
A:- (a)	
Q. Speed of a low spe	ed engine is
(a) <350 rpm	(b) 350-1000 rpm
(c) >1000rpm	(d) none of the above
A:- (a)	
Q. Speed of a medium	speed engine is
(a) <350 rpm	(b) 350-1000 rpm
(c) >1000rpm	(d) none of the above
A:- (b)	
Q. Speed of a high spe	eed engine is
(a) <350 rpm	(b) 350-1000 rpm
(c) >1000rpm	(d) none of the above
A:- (c)	
Q. Piston speed for high	gh speed engine is
(a) 300-500 m/min	(b) 100-300 m/min
(c) 500-700 m/min	(d) >700m/min
A:- (a)	
Diameter of pully sho	uld be such that it gives the best speed ofmeter/minute at full throtlle:
A)500	b)950
C)1500	d)2000
Answer: b	
4.330.tractors are gene	erally fitted with:
A)sliding mesh gear b	ox
B)constant mesh gear	box

C)both (a) & (b) D)synchromesh gear box Answer: a 4.331. High speed diesel A) is used on high speed engine B) has lower fule value then l.s.d per litre. C)both (a) & (b) D)none of the above Answer: c 4.332. Light(low) speed diesel A)is used in low speed diesel engine B) is useful for cold starting C)has higher value then h.s.d per litre of diesel D)all of the above 4.333. Connecting rod generally have A)t-shape b)angle shape d)flst-shape C)i-shape Answer: c 4.335.ignition delay is defined as the A)time between start of fuel injection and ignition of fuel B)time between end of fuel injection and ignition of fuel C)time between start of ignition and tdc D)time between completion of ignition and bdc Answer: a 1.A slat mould board scours better than a solid mould board because of smaller contact area resulting in a) Reduction of adhesive force b) Increase in soil pressure c) Both (a) and (b)

d) None of the above		
Ans.(c)		
2means movement of soils across a tool surface without sticking first to avoid soil build ups		
a) Pulverisation	b) Inversion	
c) Scouring	d) Turning	
Ans.(c)		
3. Scouring will occur as long as		
a) Frictional resistance at soil tool interface is less than the resistance at parallel soil-soil interface		
b) Frictional resistance at soil tool interface is more than the resistance at parallel soil-soil interface		
c) Soil-metal friction is more than	angle of soil shearing resistance	
d) None of the above		
Ans.(a)		
4.At smaller disc angles, the draft	tends to increase in disc plough because of	
a) Greater contact area between fu	rrow wall and the convex side of the disc	
b) Increase in the side draft		
c) Greater throw of the soil		
d) All of the above		
Ans.(a)		
5.Penetration of disc plough can be improved by		
a) Increase disc angle	b) Decreasing tilt angle	
c) Both (a) and (b)	d) None of the above	
Ans.(b)		
6 .Large tilt angle best for		
a) Hard soil		
b) Sticky and non-scouring soil		

- c) Dry and cemented soil
- d None of the above

Ans.(b)

- 1. The amount of energy required to produce a given degree of pulverisation depends primarily on
 - a) Soil strength
 - b) Energy utilisation efficiency of tool
 - c) Both (a) and (b)
 - d) None of the above

Answer: Both (a) and (b)

- 2. Draft increases with increase in forward speed for most of the implement, mainly due to
 - a) More rapid acceleration of any soil particles that is moved appreciably
 - b) More working width
 - c) Increased working depth
 - d) Draft decreases with increase in speed of implement

Answer: a

- 3. Soil acceleration increases draft because of
 - a) Increased normal load on soil working surface
 - b) Increased frictional resistance
 - c) Kinetic energy imparted to the soil
 - d) All of the above

Answer: d

- 4. Geometric similarity between the model and prototype signifies similarities of
 - a) Motion
 - b) Force
 - c) Length
 - d) None of the above

Answer: c

- 5. Kinematic similarity between the model and prototype signifies similarities of
 - a) Motion
 - b) Force
 - c) Length
 - d) None of the above

Answer: a

- 6. Dynamic similarity between the model and prototype signifies similarities of
 - a) Motion
 - b) Force
 - c) Length
 - d) None of the above

Answer: b

- 1. An erratic variation of speed governor when it is over compensated for speed changes is
 - a) Governor strength
 - b) Governor regulation
 - c) Governor hunting
 - d) Governor stability

Answer (c)

- 2. Compression pressure in diesel engine cylinder is
 - a) $6-10 \text{ kg/cm}^2$
 - b) $10-20 \text{ kg/cm}^2$
 - c) $20-35 \text{ kg/cm}^2$
 - d) None of the above

Answer (c)

- 3. Compression pressure in petrol engine cylinder is
 - a) $6-10 \text{ kg/cm}^2$
 - b) $10-20 \text{ kg/cm}^2$
 - c) 20-35 kg/cm²
 - d) 35-40 kg/cm²

Answer (a)

- 4. Injection pressure of fuel nozzle in diesel engine is
 - a) $30-45 \text{ kg/cm}^2$
 - b) $50-100 \text{ kg/cm}^2$
 - c) 120-200 kg/cm²
 - d) 200 kg/cm²

Answer (c)

- 5. Wood is well suited to use as bearing on straw walker cranks in combine due to fact
 - a) Wood corrosion resistance
 - b) Split bearing are needed for practical purpose
 - c) It can take radial as well as thrust loads
 - d) No lubrication is required

Answer (b)

6. Tapper roller bearing are used in disc harrow because

- a) It can take heavy radial loads
- b) It can take both radial as well as end thrust
- c) It can operate effectively at low speed and in contact with dirt
- d) Both (b) and (c) are true

Answer (d)

- 1. 4.336 variable speed governors are used on
 - Tractor engine(diesel)
 - Stationary engine (diesel)
 - Petrol engine
 - None of the above

Answer-Tractor engine (diesel)

- 2. 4.337 constant speed governors are used on
 - Tractor engine diesel
 - Stationary diesel engine
 - Petrol engine
 - None of the above

Answer-stationary diesel engine

- 3. 4.338 specific gravity of fully charged storage battery is
 - 1.15
 - 1.50
 - 1.28
 - 2.15

Answer-1.28

- 4. 4.339 optimum working temperature for petrol engine is about
 - 88-90°c
 - 71-82°c
 - 60-70°c
 - 90-100°c

Answer-71-82°C

- 5. 4.340 optimum working temperature for diesel engine is about
 - 88-90°c
 - 71-82°c
 - 60-70°c
 - 90-100°c

Answer-88-90°C

- 6. 4.341 Diesel engine has less reserve torque then spark ignition because
 - Torque-speed curve is governed by volumetric efficiency of fuel pump and engine cylinder
 - Torque is a function of thermal efficiency

	•		verned by volumetric efficiency of fuel pump
7.	4.342	and engine cylinder Gears are generally used in the transpur gear only helical gear only helical and spur gear gears bevel gears Answer-helical and spur gears	nsmission box are
The fo	orce that	holds two particles of the same kind	l together is called as
a)	Adhesi	on	c) shear force
b)	cohesio	on	d) compressive
An	nswer: C	ohesion	
The fo	orce that	holds two particles of the different	kind together is called as
a)	Adhesi	ion	c) Shear force
b)	Cohesi	on	d) Compressive
Answe	er: Adhe	esion	
The sh	nape of t	he gross surface of the tillage tool is	designated as
a)	Micro	shape	c) Edge shape
b)	Macro	shape	d) Gross shape
An	nswer: N	facro shape	
		refer to the surface roughness of the	ne tool
a)	Micro	shape	c) Edge shape
b)	Macro	shape	d) Gross shape
An	nswer: N	ficro shape	
wo	orking to		heral and cross-sectional boundaries of the soil
a)	Micro	shape	c) Edge shape
b)	Macro	-	d) Gross shape
An	nswer: E	dge shape	

• Diesel engine has generally low speed engine

		disc harrow are sharpened from the side penetrate more readily than rpened from the side	
a)	convex	c, concave c) concave, convex	
b)	b) Front, rear d) Rear, front		
An	swer: C	Concave, convex	
1)	Numbe	er of piston rings on piston varies between	
	A.	1-3	
	В.	3-7	
	C.	7	
	D.	12	
	E.	>12	
		Ans – B. 3-7	
2)	Conne	cting rod of four stroke engine is subjected to	
	A.	Compressive load	
	B.	Tensile load	
	C.	Both compressive and tensile load	
	D.	None of the above	
		Ans – C. Both compressive and tensile load	
3)	Conne	cting rod of two stroke engine is subjected to	
	A.	Compressive load	
	B.	Tensile load	
	C.	Both compressive and tensile load	
	D.	None of the above	
		Ans – A. Compressive load	
4)	Differe	ential lock offers advantage of	
	A.	Better drawbar pull when drive wheel are under different conditions	
	В.	Easier to plant in straight rows	
	C.	Reduces stearing effort and side draft when operating with certain implements	
	D.	All of the above	
		Ans – D. All of the above	
5)		of resistence of a mould board plow less at distance equal to	
	A.	1/4 th the size of plow from the share wing	
	В.	3/4 th the size of plow from the share wing	
	C.	2/3 th the size of plow from the share wing	
	D.	1/3 th the size of plow from the share wing	
		Ans – B. 3/4 th the size of plow from share wing	
6)		ype furrow openers especially suited to	
	A.	Stoney and root infested fields	

B.

Poorly prepared bed in trashy soils

- C. Hard and sricky soil with considerable amount of mulch and debris
- D. All of the above

Ans − B. Poorly prepared bed in trashysoils

- 7) Disc type furrow openers are especially suited to
 - A. Stoney and root infested soils
 - B. Poorly prepared bed in trashy soil
 - C. Hard and sticky soil with considerable amount of debris and mulch
 - D. All of the above

Ans – C. Hard and sticky soil with considerable amount of debris and mulch

- 8) Speed of band operated machines chaff cutter having two knives
 - F. 35 rpm
 - G. 50 rpm
 - H. 600 rpm
 - I. 1000 rpm

$$Ans - A. 35 \text{ rpm}$$

- 9) Speed of power operated machine chaff cutter is
 - E. 35 rpm
 - F. 50 rpm
 - G. 600-1000 rpm
 - H. None of the above

Ans
$$-$$
 C. 600-1000 rpm

- 10) Length of cut for silage ranges from
 - E. 2-4 cm
 - F. 5-10 cm
 - G. 15-20 cm
 - H. 20-25 cm

$$Ans - A. 2-4 cm$$

- 11) Differential lock offers advantage of
 - E. Threshing efficiency of thresher (power operated)
 - F. Capacity of chaff cutters
 - G. Cleaning capacity of straw walkers
 - H. None of the above

Ans - B. Capacity of chaff cutters

- 12) Juice extraction capacity of vertical three roller type bullock down sugercane crusher
 - E. 50-70%
 - F. 70-90%
 - G. 90-100%
 - H. 30-50%

Ans – A. 50-70%
13) Operating pressure of the hand operated sprayer is
E. $20-55 \text{ kg/cm}^2$
F. $1-7 \text{ kg/cm}^2$
G. $10-20 \text{ kg/cm}^2$
H. $>55 \text{ kg/cm}^2$ Ans – B. 1-7 kg/cm ²⁺
14) Operating pressure of power operated sprayer
E. 1-7 kg/cm ²
F. $10-20 \text{ kg/cm}^{2+}$
G. $20-55 \text{ kg/cm}^2$
H. $>55 \text{ kg/cm}^2$
Ans – C. $20-55 \text{ kg/cm}^2$
15) Foam spraying requires special type of nozzle
A. Flat fan nozzle
B. Flooding nozzle
C. Hollow cone nozzle
D. Air aspiring nozzle
Ans – D. Air aspiring nozzle
1.Mould board are usually made from
a. Soft centre steel b. Hardened carbon steel
c. Chilled cast iron d. Mild steel
Ans: a. Soft centre steel
2.Laying out of field in lands is essential when working with
a. Two way plough b. One way plough
c. Disc harrow d. Cultivator
Ans: b. One way plough
3.A mould board plough bottom acts as a
a. Single sided wedge b. Double sided wedge
c. Three sided wedge d. All of the above
Ans: c. Three sided wedge
4 moves the trash and roots from ahead of shin towords the main

furrow so as 10 ensure complete coverage by the plough bottom

a. Coulter

b. Jointer

d. Shin c. Mould board Ans: b. jointer 5. A long jow mould board with a gradual twist (spiral) that completely inverts the furrow slice with a minimum of break up thus covering vegetative matter thoroughly is called b. Stubble bottom a. Sod bottom c. General bottom d. Slat bottom Ans: a. Sod bottom 6. A relative short and broad mould board is curved rather abruptly near the top resulting in a greater degree of pulverization is called a. Sod bottom b. Stubble bottom b. General bottom d. Slat bottom Ans: b. Stubble bottom 4.308- Life expectancy of V-belt in farm machinery is about.... (a) 200-500 hrs (b) 1000-2000 hrs (c) 2000-5000hrs (d) 5000-10000hrs Ans:- b 4.309- The formula for tension difference or effective pull, required to transmit the load at.... (a) (Tt-Ts)=1000(kw/V)(b) $Tt/Ts=c^ke$ (c) (Tt-Ts) = 1000(Hp/V)(d) None of the above Ans:- a 4.310- Larger tension ratio result in...

(a) Unnecessary high tension in belt

(b) Reduction in belt life

(c) Excessive belt slippage

(d) Increase belt life
Ans:- c
4.311- Smaller tension ratio result in
(a) Unnecessary high tension in belt
(b) Reduction in belt life
(c) Both (c) & (b)
(d) Excessive belt slippage
Ans:- c
4.312- The temperature at which flame persists for approximately five seconds is called
(a) Fire point
(b) Flash point
(c) Pour point
(d) cloud point
Ans:- a
4.313- The temperature at which fuel flows to case is called
(a) Fire point
(b) Flash point
(c) Pour point
(d) Cloud point
Ans:- c
4.314- The temperature at which solid content of fuel freeze out is called
(a) Fire point
(b) Flash point
(c) Pour point
(d) Cloud point
Ans:- d
1. Increase in grain/non grain ratio on the straw Walker losses

- (a) Decrease
 (b) Increases
 (c) Unltered
 (d) None of the above

 Answer:increases

 2.Incresase amount of the non grain material on the straw Walker

 (a) Decrease
 (b) Increase
 - (c) Unaffected
 - (1) E 1
 - (d) Equal

Answer: increase

3.Increase the grain/non grain ratio on the shoe tends to the shoe losses

the walker

- (a) Decreases
- (b) Increases
- (c) Decrease or increase
- (d) Equal

Answer: equal

- 4. Increasing the cylinder speed result in
 - (a) Increase threshing efficiency
 - (b) Reduce cylinder loss
 - (c) Increase seed damage
 - (d) All of the above

Answer: increase threshing efficiency

- 5. Increasing non grain feed rate increase
- (a) Cylinder losses
- (b) Seed damage
- (c) Both (a) and(b)
- (d) None of the above

Answer: cylinder losses

6.Axial flow thresher utilises

- (a) Rasp bar cylinder
- (b) Spike tooth cylinder
- (c) Hammer mill cylinder
- (d) Peg tooth cylinder

Answer: Spike tooth cylinder

- 7. Kinematic index of the straw Walker is as ratio
- (a) Angular velocity of straw Walker to angular velocity of threshing drum
- (b) Angular velocity of straw Walker to angular velocity of threshing drum
- (c) Angular velocity of straw Walker to linear velocity of combine
- (d) All of the above

Answer: angular velocity of straw Walker to angular velocity of threshing drum

- 1. Flat planting predominates where
 - a) Nature moisture content is favourable
 - b) Rainfall is high to provide surface drainage
 - c) Semi arid areas to conserve moisture
 - d) None of the above

Ans- (a)

- 2. The average spacing of seeds or hills in field is obtained or determined by
 - a) The ratio of linear or peripheral speed of seed pick up units (cells fingers, etc) to the forward speed of the planter
 - b) The distance between the speed pick up units (cells) on the metering unit
 - c) Both (a) and (b)
 - d) None of the above

Ans-(c)

- 3. Most commonly used metering device for bulk flow seed metering of small and medium size seeds (grains)
 - a) Fluted wheel
 - b) Internal double run
 - c) Stationary opening with agitator
 - d) None of the above

Ans- (a)

- 4. When frequency of occurrence of overload is less but the mangnitude of overload is large than safety device used is:
 - a) Safety jump clutch
 - b) Shear device
 - c) Frictional device
 - d) V-belt drive

Ans-(b)

- 5. When frequency of occurrence of overload is less and magnitude of overload is also less than safety device used is
 - a) Safety jump clutch
 - b) Shear device
 - c) Frictional device
 - d) V-belt drive

Ans-(a)

- 6. In comparison to jump clutchs, advantages of the friction safety clutches is/are
 - a) More consistent break away torque
 - b) No damageing peak during slippage
 - c) Protecting a drive from high freuency peak torque (2-3 time normal values)
 - d) All of the above

Ans-(d)

- 7. When V-belt drive is used a safety device, its performance is affected by
 - a) Variation in belt tention
 - b) Increase in coefficient of friction as belt slippage increase
 - c) Both (a) and (b)
 - d) None of the above

Ans-(c)

- 1. Rotavator working in reverse direction for compacting soil and giving good touch to inter culturing is called
 - a) Rotary tiller
 - b) Power tiller
 - c) Power harrow
 - d) Treader

Ans - d) Treader

- 2. The rotary and oscillating tool which does not turn the soil upside down is
 - a) Power tiller
 - b) Rotravator

	c) Power harrow d) Treader and retery tiller
	d) Treader and rotary tiller
	Ans- c) Power harrow
3.	Lowest specific energy requirement for the operation of rotavator is about times as great as a mould board plough working in the same soil. a) Equal b) Twice c) Three d) Four
	Ans $-c$) Three
4.	One operation of rotavator dose a job equivalent to a) One ploughing + two harrowing b) One harrowing + two ploughing c) One ploughing only d) One harrowing only
	Ans- a) One ploughing + two harrowing
5.	 a) Excessive pulverization b) Suitability for pudding paddy field c) Reduced draft requirement d) Complete inversion of soil
6.	 Specific energy requirement of rotary tillers can be reduce by a) Increasing the bite length b) Decreasing depth to diameter ratio c) Both (a) and (b) d) Excessive reduction in total power requirement Ans – c) Both (a) and (b)
7.	Rotary tillers are characterized by a) Lower and negative draft b) High power requirement c) Excessive pulverization d) All the above Ans – d) All the above
4 \ T	

294)Lesser is the no. of teeth on sprocket, the variation in the speed of chain drive is a)lesser. b) greater. c)equal. d)unaffected

a)6:1. b)10:1. C)15:1. D)20:1		
296)Standard pitch roller are suitable for		
a) speed ranging from 0.5m/sec to 20m/sec		
b)Heavy loads require a compact drive		
c)both a) and b)		
d)none of the above		
297) Detachable hook link chains suitable for		
a)speed not exceeding 2-2.5m/sec		
b)low capacity loads		
c)both a and b		
d)None of the above		
298)No. of teeth on sprocket should n5 less than for high speed drive to give minimum speed variation is		
a)10-12. b)17-18. C)8-10. D)5-8		
299)The recommend value of tension ratio for 180 angle when v belt is on flat pulley		
a)2.5. b)5.0. C)10. D)15		
300) For a given tight side tension and wheel pitch diameter increase belt speed tends to increase the fatique rate because of		
A) Greater frequency of stree cycles		
B) Increased centrifugal tension at high speed		
C)both a and b		
D)none of above		
 1. Most commonly used for the metering mechanism for fertilizer a. Spur wheel b. Serrated wheel c. Star wheel d. Auger type Ans: a 2. Recommended capacity of the seed box or hopper for manually operated seeder is a. 2-10 lit b. 10-60 lit 		

- c. 100-150 lit
- d. 200-300 lit

Ans: a

- 3. Recommended capacity of the seed box or hopper for animal drawn is
 - a. 2-10 lit
 - b. 10-60 lit
 - c. 100-150 lit
 - d. 200-300 lit

Ans: b

- 4. Recommended capacity of the seed box or hopper for tractor mounted(small size) seed drill is
 - a. 2-10 lit
 - b. 10-60 lit
 - c. 100-150 lit
 - d. 200-300 lit

Ans: c

- 5. Recommended capacity of the seed box or hopper for tractor mounted (large size) seed drill is
 - a. 2-10 lit
 - b. 10-60 lit
 - c. 100-150 lit
 - d. 200-300 lit

Ans: d

- 6. How type furrow (or shovel) opener are especially suited to
 - a. Stoney and root infested fields
 - b. Poorly prepared beds in trashy soil
 - c. Hard field with considerable debris and mulch
 - d. None of the above

Ans: a

- 7. The metering mechanism which is most suitable for metering of small seed is to handle is
 - a. Internal double run mechanism
 - b. Fluted wheel mechanism
 - c. Stationery opening with agitator
 - d. None of the above

Ans: b

- 1. The metering mechanism which is suitable for the metering of small seeds as well as large grains.
 - (a) Internal double run mechanism
 - (b) Fluted wheel mechanism
 - (c) Stationary opening with auger
 - (d) None of the above.

Answer:- (a) Internal double run mechanism

- 2. Seed damage due to cut-off not a problem in
 - (a) Horizontal plate metering mechanism
 - (b) Vertical plate metering mechanism
 - (c) Both (a) and (b)
 - (d) Inclined plate metering mechanism

Answer:- (d) Inclined plate metering mechanism

- 3. Cell fill is affected by
 - (a) Seed size
 - (b) Cell speed
 - (c) Cell size
 - (d) All of the above

Answer:- All of the above

- 4. Variation in the drop size of seed can be minimised by
 - (a) Using a short, smooth, small diameter tube with the discharge end close to bottom of furrow.
 - (b) Discharging the seed directly from the metering device within a few centimetres of the furrow bottom.
 - (c) Mechanically transferring the seeds from the metering unit in the furrow.
 - (d) All of the above.

Answer: All of the above

- 5. Cut-off device is not required with
 - (a) Inclined plate metering
 - (b) Horizontally plate metering
 - (c) Vertically plate metering
 - (d) All of the above

Answer:- Inclined plate metering

- 6. Lister planting or furrow planting is practiced for
 - (a) High rainfall areas to improve surface drainage
 - (b) Semi-arid conditions to place seed deep in moist soil
 - (c) Areas where natural moisture conditions are favourable
 - (d) Irrigated areas leaving more space for operation of equipments

Answer:- (b) Semi-arid conditions to place seed deep in moist soil

7. Bed planting is practiced for row crops in

- (a) Semi-arid conditions to place seed deep in moist soil
- (b) High rainfall areas to improve surface drainage
- (c) Irrigated areas leaving more space for operation of equipments
- (d) Both (b) and (c)

Answer:- (d) Both (b) and (c)

- 1. The size of a seed rill is expressed by:
 - A. Amount of seed sown per unit time.
 - B. Length x width of the machine.
 - C. Area covered per unit time.
 - D. The number of furrow openers x distance between two furrow openers.

Ans: D

- 2. The type of bearing generally used to support the discs on a standard disc plough is:
 - A. Ball bearing.
 - B. Tapered roller bearing.
 - C. Plain roller bearing.
 - D. Bush bearing.

Ans: B

- 3. For a given spray sample:
 - A. The volume median diameter (VMD) is equal to number median diameter (NMD).
 - B. The VMD is less than the NMD.
 - C. The VMD is larger than the NMD.
 - D. None of the above.

Ans: C

- 4. In a precision planter the height of seed drop:
 - A. Should be as close to be ground level as is possible.
 - B. Should be at least 1 m from the ground level.
 - C. Is not a factor to be considered?
 - D. None of These

Ans: A

- 5. The cutter bar of a tractor operated mower ordinarily makes:
 - A. 800-1200 strokes/min
 - B. 1600-2000 strokes/min

- C. 2400-2800 strokes/min
- D. 3200-3600 strokes/min

Ans: A

- 6. The method which depreciates the tractor or machine to zero at the end of its expected life is known as:
 - A. Estimated value
 - B. Sum-of-the digits
 - C. Declining balance
 - D. Straight line

Ans: D

- 7. A power tiller is most suited for rotary cultivation because:
 - A. It generates negative draft
 - B. Its traction requirements are low
 - C. It provides high degree of soil pulverization
 - D. All of the above

Ans: D

- 8. A power tiller is relatively more suitable for :
 - A. Puddling of low land paddy fields with a rotary tiller
 - B. Primary tillage of upland paddy fields with a rotary tillers
 - C. Primary tillage with a mould board plough
 - D. Farm transportation work

Ans:- Puddling of low land paddy fields with a rotary tiller

- 9. The type of restrained three point linkage system in which the depth of implement is automatically adjusted to maintain a pre selected constant draft is called:
 - E. Automatic draft control system
 - F. Precision control system
 - G. Depth control system
 - H. None of the above

Ans:- Automatic draft control system

- 10. The sound level of an agricultural tractor should not exceed:
 - I. 110 dB
 - J. 100 dB
 - K. 90 dB
 - L. 80 dB

Ans:- 90dB

- 11.A power tiller is most suited for :
 - A. Draft operation with rigid tools
 - B. Rotary cultivation
 - C. Stationary operation
 - D. Transport work

Ans:- Rotary cultivation

- 12.Cylinder loss in a stationary power thresher can be reduced by increasing the :
 - M. Cylinder peripheral speed
 - N. Concave clearance
 - O. Blower speed
 - P. All of the above

Ans:- Cylinder peripheral speed

- 13. The bearing material that is most susceptible to corrosion is :
 - Q. Babbit
 - R. Copper-lead
 - S. Aluminium
 - T. Aluminium-babbit

Ans:- babbit

- 14.One of the main advantages of disc brakes over drum brakes is that the disc brake:
 - U. Can stop a vehicle in a shorter distance
 - V. Is more heat resistant
 - W. Weighs less than drum brakes
 - X. Requires less pedal force to stop the vehicle

Ans:- Requires less pedal force to stop the vehicle

- 15: An animal drawn seed drill has k number of furrow openers 180mm apart. If the speed of the operation is 2.0kmph then the area covered (ha), in 8 hr day is given by:
 - a) 1.85/1000k
 - b) $28.8 * 10^{-2}$ k
 - c) k/6.456
 - d) 1.762k

Answer: (b)

- 16: The landside of a mould board plough is made of:
 - a) Malleable iron
 - b) Forged steel
 - c) C45 steel
 - d) Soft centre steel

Answer: (d)
17: In an epicy sun gear is:	cle gear reduction unit, the ratio of the number of teeth of the internal gears to the
a)	3:1
b)	4:1
c)	2.5:1
d)	4.5:1
Answer	r: (b)
18: In hydrauli	c sprayers, the degree is primarily a function of:

- a) Liquid pressure and the nozzle characteristics
- b) Air velocity
- c) Size of the nozzle
- d) Shape and size of the atomizer

Answer: (a)

- 19: The virtual hitch point of a directional implement is located at:
 - a) Near the front axle
 - b) 40 mm towards the rear axle
 - c) At the power take off shaft
 - d) Between two lower links

Answer: (d)

- 20: Heavy draft of a disc plough is due to:
 - a) Blunt disc
 - b) Furrows too wide
 - c) Loose bearings
 - d) All of the above

Answer: (d)

- 21: Puddling is done to:
 - a) Reduce percolation of water
 - b) Kill weeds
 - c) Pulverise soil
 - d) Level the fields

Answer: (a)

22.Combustion process is	
a) Endothermic	
b) Exothermic	
c) isothermal	
d) None of the above	
Answers:- b)	
23.Spray Angle for fan nozzles and hollow cone nozzle	
a) 40-50	
b) 50-60	
c) 60-95	
d) 100-150	
Answers:- c)	
24. What is natural frequency of driver sheet suspensions	
a)0.5-1.5 Hz	
b)1.5-4.0 Hz	
c)4.0-6.0 Hz	
d)4.0-10 Hz	
Answers:- a)	
25. Axial flow thresher uses	
a) Raspbar type cylinder	
b) Serrated disc type cylinder	
c) Spike tooth	
d) Hammer mill	
Answers:- a)	
26. Which end of disc harrow tends to penetrate more deeply	
a) Concave	
b) Convex	
c) Rear	

d) Front		
Answers:- a)		
27. Land shaping becomes essential where often the following implement is used		
a) M.B. Plough		
b) Disc Harrow		
c) Cultivator		
d) All of the above		
Answers:- a)		
28.An olpad thresher is operated		
(A) Manually		
(B)By a pair of Bullocks		
(C)By a tractor		
(D)By an electric motor		
Ans-B		
29Planters differ from a seed drill in respect of-		
(A) kind of power transmission system		
(B)kind of metering mechanism		
(C)kind of furrow opener used		
(D)all of the above		
Ans-B		
30The purpose of registration in a mower is		
(A) to get uniform length of cut of grass		

(B)to run the mower at minimum power

(C)to run the mower at uniform torque

(D)to reduce the occurrence of overload

Ans-B

31-The average threshing outrun of a paddy in kg/hr is		
(A) 500		
(B)650		
(C)800		
(D)1000		
Ans-B		
32-GOOD EARTH is one of the important make of		
(A) tractor		
(B) electric motor		
(C) diesel engine		
(D)power tiller		
Ans-A		
33-The use of tractor is considered economical when it is utilised for		
(A) 800hrs/year		
(B)1000hrs/year		
(C)1200hrs/year		
(D)1400hrs/year		
Ans-B		
34-Normal consumption of fuep in ltrs/hr. by a 35hp tractor is		
(A) 2.5		
(B)3.0		
(C)3.5		
(D)4		
Ans-B		
35.which of the following tractor has the cair cooled engine?		
A)ford b)eicher		
C)international d)hmt		
Answer: b		

36: the time taken to	plough one acre farm with 35 hp tractor is:			
A)60 minutes	b)75 minutes			
C)90 minutes	d)120 minutes			
Answer: b				
37. A dry land weeder covers an area (in hactare) per day (8 hour):				
A)0.1	b)0.2			
C)0.3	c)0.4			
Answer: b				
38. The first tractor plant in india was set up by :				
A)hindustan	b)hmt			
C)eicher	d)ford			
Answer: c				
39. How many units	of electricity per hp per hour is used by electric motor:			
A)0.44	b)0.66			
C)0.88	d)1.10			
Answer: c				
40. The estimated useful life of diesel engine is:				
A)8 years	b)10 years			
C)12 years	d)14years			
Answer: b				
41. Annual depreciation of a machine is included in :				
A)fixed cost	b)variable cost			
C)hiring cost	d)none of them			
Answer: a				
42.Land shipping become necessary often the following implments is used:				
a. MB plough				
c. Cultivator ANS- option A	d. All of these			
43. The items of fixed cost are:				

- a. Depreciation and labour b. insurance and repair
- c. Taxes and fuels
- d. Interest and housing

ANS- option D

44. Sweeps are used for:

- a. Seedbed preparation
- b. Ridging
- c.Earthing plants
- d. Mulching

ANS- option D

45.Land plane is ideally suited for:

- a. Land leveling
- b. Earth moving
- c. Final grading
- d. Top finishing

ANS- option D

46. Vetical suction of plough influences:

- a. Pulverization
- b. Depth of cut
- c. Width of cut
- d. Direction of cut

ANS- option B

47.Disc angle adjustment influences:

- a. Depth of cut
- b. width of cut
- c. Soil break up
- d. Direction of travel

ANS- option B

48.A coulter attachment is used with:

- a. Disc harrow
- b. Seed drill
- c. MB plough
- d. Sub soiler

ANS- option C

49.A 2m combine is operating at 4 kmph with an overall efficiency of

75%. The area covered by in(ha\h) will be:

- a. 0.4
- b. 0.6
- c. 0.8
- d. 1.0
 - Ans:b

50. A reaper used for:

- a. Cutting crop
- b. Cutting and windrewing
- c. Cutting and threshing
- d. None of these
 - Ans: b

	85db	
	100db	
	110db 115db	
u.	Ans :-a	
52. Pudd	ling is done to achieve	e:
	Soft soil bed	
	Non leaching of water	
	Size reduction of clo	
d.	Conservation of moi	sture
An	ns:- b	
	sh causes more seed d	amage if :-
	Seed is increase	
	Clearance is increase Feed rate is reduced	ed
	Seed is reduced	
	is:- a	
	urrow is made by:	
	One way MB plough	
	Two way MB plough	1
	Ridger Disc harrow	
	is:- a	
	o primery tillage equi	pment
	a. MB plough and dis	=
	 Disc plough and di 	
	c. Disc harrow and cu	
Ans:-d	l. MB plough and sul	bsoiler
1 11151 0	epth of penetration of	a disc harrow is increased by:
a)	Tilt angle	b) Gang angle
c)	Disc angle	d) All of above
A	ns. B	
57, Equipment for placing seeding in the soil called:		
a)	Seed drill	b) Seed cum fertilizer drill
c)	Planter	d) Transplanter
A	ns. D	

51. The upper safe noise level for machine operator is :

58, the mowers are designed to cut:		
8	a) Wheat	b) Paddy
c) Mustard		d) Grasses
I	Ans. D	
59, The t	wo types of cylinder u	used on power wheat threshers are:
	a) Serrated disc and	d rasp bar
	b) Spike tooth and wire loop type	
	c) Spike tooth and hammer mill	
	d) Hammer mill and flails	
	Ans. c	
60, ASPEE are famous for manufacturing:		nufacturing:
	a) Tractor	b) Power tillers
c) Ploughs		d) Sprayers
Ans. D		
Q.61, The commonly used power transmission system in ferti seed drills are:		
	a) China-sprocket and gears	
	b) Gears and belt pulleys	
	c) Belt pulleys and cams	
	d) Belt pulleys and chain sprocket	
I	Ans. D	
Q.62, Tilt angle in a disc plough varies from:		
	a) 5-10 deg.	b) 10-15 deg.
	c) 15-25 deg.	d) 25-30 deg.
63. A low mold board with gradual twist that completely invert the furrow slice with a minimum of breakup, thus covering vegetative matter thoroughly is called		
a. Stubble	Stubble bottom b. sod bottom	
c. salted i	nould board	d. general purpose bottom
ANS. B		
64. Subsoiler plough is best suited for		

a. breaking hard pan	b. deep ploughing
c. making ditches	d. inter cultivation
ANS. A	
65. In check rowing the seed spacing is	
a. constant	b. continuous
c. same as the rows	d. none of these
ANS. C	
66. The unit draft of an indigenus plough mal 70 kg per sq. cm the draft is	king a 20cm wide and 10cm deep v shape furrow is
a. 50kg	b. 60kg
c. 70kg	d. 80kg
ANS.	
67. For maximum moisture conservation plo	ughing is done with
A. mb plough	b. cultivator
c. chisel plough	d. dice harrow
ANS. C	
68.total grain loss in a combine increase with	1
a. increase in forward speed	b. decrease in stubble Hight
c. increase in concave clearance	d. all of the above
ANS. D	
69.A threshing cylinder of 15cm radius is robbe	tating at 700rpm if peripheral velocity (m/sec) will
a. 11	b.105
c. 210	d. 660
ANS .A	
70.Spiral gear Is used to transmit power	between two shafts place at:
a)An angle to each otherb)In different planes	

- c)Both(a)and(b)
- d)None of the above

Ans:- c)Both(a)and(b)

71. Gears are used for:

- a)changing the speed rotation
- b)changing direction of rotation
- c)changing direction of shafting
- d)all of the above Ans:- d)All of the above

72.Roller chains are used for:

- a) Higher speed and higher loads
- b)made of high grade steel
- c)components are harden and polished
- d)All of the above

 Ans:- d)All of the above

73. Hook link chains are

- a)suitable for external drive exposed atmosphere
- b)made of meabble iron
- c)used where power requirement is low and speed is low
- d)All of the above

 Ans:- d)All of the above

74. Most important factor affecting threshing efficiency

- a)peripheral speed of the drum
- b)cylinder concave clearance
- c)moisture content of crop
- d)feed rate Ans:- a)peripheral speed of the drum

75. Worm gears are used for transmitting power between two shafts

- a)at right angle to each other and cannot intersect each other
- b) at right angle to each other and can intersect each other
- c)at angle to each other
- d)shafts on different plane

Ans:- a)at right angle to each other and cannot intersect each other

76. Width of cut of disc plow is increased by

- a)Increasing disc angle
- b)Increasing tilt angle
- c)addition of more weight

d)Decreasing disc angle Ans:- a)Increasing disc angle

- 77. Thresher blows broken grains with chaff due to
- a) Higher cylinder speed.
- b) More feed Rate
- c) More cylinder concave clearance
- d) Moisture content of the crop is more

Ans. A

- 78. Which one of the below is a multipurpose tool
- a) Indigenous plough
- b) Cultivator
- c) Multipurpose tool bar carrier
- d) M.B plough

Ans. C

- 79.In a disc plough with the increase in the disk angle, the transverse component of reaction will
- a)Increase
- b) Decrease
- c) Unaffected
- d) None of the above

Ans. A

- 80. Durability of the fertilizer increases with
- a) Increase in the kinetic angle of repose
- b) Decrease in the kinetic angle of repose
- c) Decrease in the speed of the forward travel
- d) None of the above

Ans. B

- 81. Increase length of a land slide of a one bottom right hand mould board plough will
- a) Increase the amount of offset on tractor

b) Decrease the amount of offset
c) No affect
d) Affect Completely
Ans. C
82.Depth of working of a tillage implement is controlled by
a) Furrow Wheel
b) Gauge Wheel
c) Cage Wheel
d) Star Wheel
Ans. D
83. The ideal moisture content for the soil primary tillage operation
a) Upper plastic limit of the soil
b) Lower plastic limit
c) Wilting Point
d) All of the above
Ans. A
84 . In a horizontal plate type planter maximum obtainable value of cell fill is :
A.Greater then 100%
B.Less than 100%
C.200%
D.None of the above
Ans.A
85 . In standard disc plow the tilk angel varies between:
A.30-40 $^{\circ}$
B.40-45°
C.20-25°
D.2-3°
Ans-c

86. subsoilers are operated at maximum depth of:
A.30-40cm
B.45-75cm
C.75-90cm
D.10-20cm
Ans.B
87. For operating rotavator on trashy soils which tines are better:
A L-shaped
B.Hook shaped
C.Backward curved tip twist blade
D.Straight blade
Ans-A
88. Horizontal component of pull perpendicular to the line of motion is called:
A.Draft
B.Side draft
C.Transerve component

D. Pull
Ans-B 89. Hollow cone nozzles employed on boom type of sprayers have spray angle between:
A .30-60°
B.40-60°
C.60-95°
D.100-150°
Ans-c
90. Peripheral velocity of impact cutter is about:
A.50m/sec
B.20m/sec
C.10m/sec
D.5m/sec
Ans-A

91..Mild steel is an alloy with carbon content

b)5%

a)0.25%.

c)10%. d)25%

Ans-0.25%

92. Total force exerted upon the implement by a power unit called

a)pull. B) draft

C)side draft. D)unit draft

Ans-pull

93. Tillage tool moving with uniform velocity is subjected to

A)force of gravity. B)pull of power source

C)soil reaction. D)all of the above

Ans-all of the above

94. Share for use in sandy soils are made of

A)chilled cast iron. B)cast iron

C)mild steel. D)gun metal

Ans-chilled cast iron

95. For rotary cutting blade the proper cutting quality is affected by

A)rates of forward speed to blade pert pheral speed

B)radius of rotation of cutting blade

C)feed per blade

D)all of these

Ans-all of these

96.Desired tension in an open belt drive system can be maintained (without changing center to center distance between two pulley)by using

A)ldler pulley. B)slide rail

C) Tilting angle. D)none of the above

Ans-Idler pulley

97. Tension on the slack side in chain drive is

A)more than on tight side. B)less than on tight side. C)zero. D)equal to tight side

Ans-zero

98. Lister plows especially suitable for

a.) Dry land agriculture.	b.) Breaking hard pan.	
c.) Earthing plants.	d.) Mulching.	
Ans. a		
99. Adjustment needed wh	nen thresher blows grains with chaff	
a.) Decreasing cylinder peri	pheral speed.	
b.) Increasing cylinder speed.		
c.) Decreasing feed rate.		
d.) Increasing cylinder		
Ans. a		
100. Reaper is used for		
a.) Plowing	b.) Harvesting and threshing.	
c.) Cutting crops.	d.) Cutting and windrow.	
Ans. d		
101. The amount of liquid required for ground spraying of agricultural crops is :		
a.) 400-600L/ha	b.) 200-400L/ha	
c.) 1000-2000L/ha	d.) 600-800L/ha	
Ans. a		
102. The amount of liquid	required for spraying of plantation crops is :	
a.) 200-400L/ha	b.) 400-600L/ha	
c.) 600-800L/ha	d.) 1000-1200L/ha	
Ans. d.		
103. Nozzle spacing on boom is governed by		
a.) Type of spray	b.) Height of crops	
c.) Density of crop	d.) All of the above	
Ans. d		
104. Farming operation whi	ich requires maximum energy	
a.) Sowing	b.) Interculture	
c.) Tillage	d.) Harvesting	

105-	5- Material used for hand slide is	
	(a) chilled cast iron. (b) cast iron	
	(c) mild steel. (d) gun metal	
Ans-	c	
106-	Back furrow is caused while plowing is done	
	(a)center to side (b) side to center	
	(c)one way plowing. (c) none of the above	
	Ans- a	
107-	Dead furrow open furrow is called when plowing is done by	
	(a) Center to side	
((b) side to center method	
((c) one way plowing	
((d) none of the above	
	Ans- b	
108	Size of MB plow is determined by	
((a) depth of cut	
((b) width of cut	
((c) number of accessories	
((d) none of the above	
	Ans- b	
109-	Average pull developed by a pair of bullocks	
((a) 1/10 of their body weight	
((b) Equal to bosey weight	
((c) 1/2 of their body weight	
((d) None of the above	
	Ans- a	

110 The nozzle used for chemical spraying of weedicides		
(a) hollow cone nozzle		
(b) solid cone nozzle		
(c) flat fan nozzle		
(d) flooding nozzle		
Ans- c		
111 - Flooding nozzles are generally operated with		
(a) Axis vertical		
(b) Axis horizontal		
(c) Inclined		
(d) None of the above		
Ans- a		
112.0ff-set disc harrows are best suitable to work for		
a) primary implement		
b) breaking clods		
c) orchard cultivation		
d) surface finishing		
ANSWER: c) orchard cultivation		
113.Harvesting of wheat with bullock drawn reaper and making bundles could require		
a) 2 persons		
b) 3 persons		
c) 4 persons		
d) 5 person		
ANSWER: A) 2 Persons		
114. The number of knives on powered chaff cutter		
a) 2-6		
b) 1-2		
c) 5-10		

- d) 10-20 ANSWER: A) 2-6 115. Combustion process is an a) Endothermic b) exothermic c) isothermal d) none of the above ANSWER: B) exothermic 116. Spary angle for fan nozzle and hollow cone nozzle a) 40-50 b) 50-60 c) 60-95 d) 100-150 ANSWER: C) 60-95 117. What is the natural frequency of driver sheet suspension a) 0.5-1.5 Hz b) 1.5-4.0 Hz c) 4.0-6.0 Hz d) 4.0-10 Hz
- ANSWER: A) 0.5-1.5 Hz
- 118. Flooding nozzle have spray angle
- a) 100-150
- b) 90-100
- c) 60-95
- d) 30-45

ANSWER: A) 100-150

- 119.Axial flow thresher uses
 - a) Raspbar type cylinder
 - b) Serrated disc type

- c) Spike tooth
- d) Hammer mill

Answer (a)

120. What is the value for centrifugal torque for maximum power transmission in belt drives

- a) ½ maximum torque
- b) 2/3 maximum torque
- c) ³/₄ maximum torque
- d) None of the above

Answer (d)

121. Which end of the disc harrow penetrates deeply

- a) Concave
- b) Convex
- c) Rear
- d) Front

Answer (a)

122.Land shaping becomes essential where often the following implement is used

- a) M.B. Plough
- b) Disc plough
- c) Cultivator
- d) All of the above

Answer (a)

123. Which one is a transmission dynamometer

- a) Torsion dynamometer
- b) Froues hydraulic dynamometer
- c) Belr dynamometer
- d) Proney brake dynamometer

Answer (a)

124. An engine is called I or valve in head engine when

- a) Valve are immediately above the cylinder
- b) Both valves are on one side
- c) Both valves are on opposite direction
- d) None of the above

Answer (a)

125.Land plane is ideally suited for

,	l levelling n moving	
· ·	l grading	
d) Top	finishing	Answer (d)
126. In the followin	g the precision pla	anter is:
A. seed drill B.	broadcaster	
C. Dibbler D.	dofaan	
Ans- c		
127. The upper safe	noise level for m	achine operator is:
A. 85 db B.100d	lb	
C. 110db D.115d	b	
Ans- a		
128 Multiple unive	ersal joint are pref	ferred over single joint because they:
A. provide higher st	rength B. minii	mize speed fluctuation
C. are lighter in wei	ght D. are r	nore flexible
Ans- b		
129. Scouring indic	ates:	
A. movement of soi	l on tool surface	B. sticking of soil on tool surface
C. inversion of soil		D. none of the above
Ans- a		
130. Instrument use	d for measuring th	he depth & width of ploughing:
A. penetrometer	B. width meter	
C. depth meter	D. width and dep	oth meter
Ans- a		
131. Soil strength is	determined by:	
A. penetrometer	B. micrometer	
C. hydrometer	D. dynamometer	•
Ans- d		
132. Atomization of	f spray fluid can a	chieved by:

A. discharging the liquid throu	gh an orifice under pressure	
B. by breaking up the jet of liquid by a blast of		
C. both A & B		
D. none		
Ans- c		
133: swirl plate in the cone nozzle is provided to.		
a. Impart rotational mb. To increase the dropc. To decrease the dropd. To increase the sprangerAnswer:(a)	plet size.	
134: power spray are opera	ated at a pressure.	
a. 5-10 kg/m2	o.10-20 kg/m2	
c.20-55 kg/m2	d.>55 kg/m2	
Answer:(c)		
135: Agitator(propeller or of	paddle)type for agitating liquid in power sprays have a velocity	
a.100-120 rpm	b.60-100 rpm	
c.10-20 rpm	d. none of the above	
Answer:(a)		
136: Flow rates of particular nozzle is directly proportional to		
a. square root of pres	ssure b. orifice area	
c. Both (a) and (B)	d. none of the above	
Answer:(c)		
137: In electrostatic sprayi	ing the total volume of liquid to be sprayed over one	
Hectare is		
a.<1 litres	b. 50 litres	
c. 100 litres	d.>100 litres	

Answer:(a)

138: Application rates for dusters are

a.<10 kg/ha

b.10-20 kg/ha

c. 20-40 kg/ ha

d.>40 kg/ha

Answer:(a)

139: Application rate of sprayer is affected by

a. forward of speed

b. number of nozzle

c. rate of discharge

d. all of the above

Answer:(d)

140 power of absorbing type hydraulic dynamometer varies as

a) cube of rpm b) fifth power of the diameter c) none of the above d) both (a) and (b)

ans;- D

141. Hand operated sprayer are operated at a pressure (kg/cm2)

a) 1-7 b) 7-10 c)10-20 d) 20-55

ans;- A

142. In single action disc harrow the two gangs are at set single

a) less than 90 degree b) at 90 degree c) greater than 90 degree d) at 180 degree

ans:- C

143. In an offset disc harrow the angle between two gang is

a) less than 90 degree b) 90 degree c) greater than 90 degree d) 180degree

ans:- A

144. The implement which can work in offset position

a)offset disc harrow b) mower c) both (a) and (b) d) none of the above

ans;- C

145. Seed drills differ from the planters in respect of

a) metering mechanism b) ground wheel design c) transmission system between ground wheel and roller wheel d) none of the above

ans;- A

146.An animal drawn seed drill has k number of furrow openers 180mm apart. If the speed of operation is 2.0kmph, the area covered (ha), in 8-11day is given by:

- A. 1.85/1000k
- B. $28.8 \times 10^{-2} \text{k}$
- C. k/6.56
- D. 1.762k

Ans: B

147. The land side of a mould board plough is made of:

- A. Malleable iron
- B. Forged steel
- C. C45 steel
- D. Soft Centre steel

Ans: D

148. For a given spray sample:

- A. 3:1
- B. 4:1
- C. 2.5:1
- D. 4.5:1

Ans: B

149.In Hydraulic sprayers, the degree of atomization is primarily a function of

- A. Liquid pressure and the nozzle characteristics
- B. Air velocity
- C. Size of the nozzle
- D. Size and shape of the atomizer

Ans: A

150The cutter bar of a tractor operated mower ordinarily makes:

- A. Near the front axis
- B. 40mm towards the real axis
- C. At the power take off shaft

D. Between the two lower Links

Ans: D

151Heavy draft of a disc plough is due to:

- A. Blunt disc
- B. Furrows too wide
- C. Loose bearings
- D. All are currect

Ans: D

152Puddling is done to:

- A. Reduce percolation of water
- B. Kill weeds
- C. Pulverize soil
- D. Level the field

Ans: A

- 153. The mechanical cleaning of sugar cane is done due to
 - A. The different in the peripheral velocity of rollers
- B. Rough surface provided Or the outer surface of rollers
- C. Blow of air which forces the extraneous material out of the machine
- D. All of the above
- ANS. All of the above
- 154. Cleaning of sugarcane is obtained at peripheral speed
- A. 12-15m/sec
- B. 18-20m/sec
- C. 20-25m/sec
- D. 25-30m/sec

Ans. 18-20m/sec

155. Formula for established plant to the seed sown based on the delivery rate (kg/ha) is

- A. $CI=[(E\times 10000)/(D\times W)]\times 100$
- B. $CI=[E/(N+E)]\times 100$
- C. Both (A) and (B)
- D. None of (A) and (B)

ANS. (A)

156. Formula for established plants to the speed sown based on the dug seed is given by

- A. $CI = [(E \times 10000) / (D \times W)] \times 1000$
- B. $CI=[E/(N+E)]\times 100$
- C.Both (A) and (B)
- D. None of (A) and (B)

ANS. (B)

- 157. Engine power output is a function of
- A. Crank shaft torque
- B. Speed
- C. Both (A) and (B)
- D. None of the above

Ans. C

- 158. Swinging drawbar is advantageous because it help
- A. Taking short turn with machine wider than the tractor
- B. Reduces side draft
- C. Leaves only small area uncovered at corner of the fied
- D. All the above

Ans. A

- 159. Slip of belt is responsible for
- A. Reduction is speed
- B. Reduction in power
- C. Reduction in belt life
- D. All of the above

- 160 Belt Tension can be adjusted by
 - a. idler pulley
- b. slide rails
- c. tilting plate drive
- d. all the above

Ans- d

- 161. Function of idler pully are
 - a. to increase the angle of contact of belt on pully
 - b. maintain belt tension as belt stretches
 - c. canter to centre distance remain same
 - d. all the above

Ans- d

162. Length of open belt is given by formula

a. L=
$$[2C+(\pi/2) (DI+D2)] + [(DI - D2)^2/4C]$$

b. L=
$$[2C+(\pi/2) (DI+D2)] + [(DI + D2)^2/4C]$$

c. L=[2C+
$$(\pi/2)$$
 (DI+D2)] + [(DI + D2)²/ 4π C²]

d. L=[2C+
$$(\pi/2)$$
 (DI-D2)] + [(DI - D2)²/ 4π C²]

Ans-a

- 163. V -belt are most suitable for
 - a. less space requirements
 - b. use with adjustable pulley foe speed change
 - c. both (a) and (b)
 - d. none of the above

Ans-c

- 164. Gears commonly used on fuel injection pumps are
 - a. Spur gears
- b. helical gears
- c. rack and pinion
- d. spiral gears

Ans- c

165. Spiral gear are used for transmitting power between two

shaft Inclined at

- a. Right angle to each other and axes can intersect
- b. Right angle to each other and axes cannot intersect
- c. At angle slightly lesser or greater than 90° of axles can meet
- d. None of the above

Ans- c

166. Worm gear are used for transmitting power between two

Shaft Inclined at

- e. At right angle to each other and axes can intersect
- f. At right angle to each other but axis cannot intersect each other
- g. At right angle to each other and in different planes
- h. None of the above

Ans- b

167. Carbon content in the cast iron is

```
(A) 2.5 - 4.5\%
```

- (B) 0 0.25 %
- (C) 0.25 0.50 %
- (D) 0.50 1.5 %
- ans-: (B)

168. Medium Carbon steel was carbon content about

- (A) 0.25 %
- (B) 0.25 0.50 %
- (C) 0.50 1.5%
- (D) 2.5 4.5%
- ans-: (B)

169 . High carbon steel having carbon content about

- (A) 0.25 %
- (B) 0.25 0.50 %
- (C) 0.50 1.5 %
- (D) 2.5 4.5 %
- ans-: (C)

170. Bronze is an alloy of copper, zinc, and tin having composition

```
(A) 60% - 30% - 10%
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ans-: (C)

- 171 . Brass is an alloy of copper and zinc having the relative percentage
- (A) 60-70% Cu and 30-40% Zn
- (B) 50-60% Cu and 40-50% Zn
- (C) 40-50 % Cu and 60-50% Zn
- (D) 30-40 % Cu and 60-70% Zn

ans -: A

- 172. Rated speed of an engine is the speed at which an engine devlopes
- (A) Maximum crankshaft torque
- (B) Maximum brake horse power output
- (C) Maximum thermal efficiency
- (D) Maximum drawback pull

ans-: (B)

- 173. Volumetric efficiency is affected by
- (A) Turbulence velocity and temperature of intake manifold
- (B) Efficiency of exhaust stroke
- (C) Valve timing overlap
- (D) All the above

ans-(D)

174.A traction fitted with diesel engine will have good slogging ability as lugging ability if it has a reserve of

a.500 rpm d.200 rpm c.300 rpm e.1000 rpm

Ans: 500 rpm

- 175.Detonation is favoured by
 - a. Low crankshaft speed at full throttle
 - b. .Higher loads
 - c. Both (a) and (b)
 - d. None of the above

Ans: Both (a) and (b)

176.Total mechanical losses (frictional losses, pumping loss in intake and exhaust and power accessories) will amount to

a.10-20 % ihp

b.2-10 % ihp

c.20-30 % ihp

d.30 -50 % ihp

Ans: 10-20 % ihp

177. Hook type blades best suited for

- e. Minimum tillage of trashy land at shallow depths
- f. Dried hard soils
- g. Cutting and pulverisation especially in wet sticky clay soil
- h. Working under normal field conditions

Ans: Dried hard soils

178.L shaped blades are best suited for

- i. Minimum tillage of trashy land at shallow depths
- j. Dried hard soils
- k. Cutting and pulverisation in wet sticky clay soil
- 1. Working under normal field conditions

Ans: Minimum tillage of trashy land at shallow depths

179. Curved twisted blades are specially suited for

- m. Minimum tillage of trashy land at shallow depths
- n. Dried hard soils
- o. Cutting and pulverisation in wet sticky clay soil
- p. For operating on the sides of plant bed

Ans: For operating on the sides of plant bed

180. Power tillers are popularly available in hp range of

- q. 6-12 hp
- r. 12-20 hp
- s. 1-6 hp
- t. 20-50 hp

Ans: 6-12 hp

181. For optimum working the slip should not exceed

a) 15% b) 20% c) 25% d) 30%

Answer: a

182. Optimum operating speed of rotavator is

a)20-150rpm b)150-350rpm c)350-500rpm d) >500rpm

Answer: b

183. Formula for adding weight (ballast) on tractor tyres working in loose wet soil for good traction

a)(km/hr \times kg/PTO kw)=540

b)($km/hr \times kg/PTO kw)=670$

c)($km/hr \times kg/PTO HP)=540$

d)($km/hr \times kg/PTO HP)=670$

Answer: a

184. Suggested or recommended difference in mass to power ratio between ballasted and unballasted tractor is of the order

a)10kg/PTO KW

b)6kg/PTO kw

c)20kg/PTO kw

d)30kg/PTO kw

Answer: b

185. Dual wheels have disadvantage of

a)reducing soil contact pressure and sub soil compact negative pressure

b) concentrating load over an area

c)reduces load on area by 50%

d) none of the above

Answer: b

186. Fandem wheels are preferred over dual wheels because

a) they tends to reduce load on an area by 50%

b)they tends to reduce soil contact pressure

c)reduces sub soil compact ness pressure

d)none of the above

Answer: a

187. Weight per unit of drawbar power is generally ranges between
a)50-120kg/kw
b)120-150kg/kw
c)150-250kg/kw

d)250-300kg/kw

Answer: a

188. Main function of cutout relay in electrical circuit is

A. To prevent the reversal of current flow from the battery when dynamo speed (engine speed) reduces.

B. To restrict the maximum output at high speed.

C. To permit the generation to deliver current to the battery or to the lightening and ignition circuit.

D. None of the above

Ans-A

189.main function of the current regulator is

A. To prevent the reversal flow of current from the battery when dynamo speed is drops.

B. To safeguard against flow of high currents to battery when armature develops more current.

C. To prevent building up of high voltage in a circuit.

D. None of the above

Ans-B

190. Alternators are preferred over dynamo because

A. Alternators can produce a strong current of 30-40 amperes.

B. Alternators don't required cutout reiny

C. Alternators don't have commutaters

D. All of the above

Ans-D

191. Utility index is a indication of

A. Work machine contact hours B. Wear out life of machine C. Operating cost of machine D. Reliability of machine working Ans-A 192. When the valves are carried in engine bioel at one side of each cylinder is called A. Valves in head arrangements B. L-head C. I-head D. None of the above Ans-B 193. Turbo chargers or super chargers increases engine power by A. 10-20% C. 50-60% B. 20-30% D. 90-100% Ans-A 194. Turbo chargers are driven by A. Direct connection with engine power B. Exhaust gases from engine C. Electric current from the battery D. None of the above Ans-B 195.Superchargers are driven by A. Electric current from the battery B. Exhaust gases from engine C. Direct connection with the engine power D. None of the above Ans-C

196 Transplanter using soil bearing seedlings are more popular than washed root seedling transplanter because of
a) less labour requirement b) lesser plant missing percentage c) higher work rates d) all of the above
ans;- D
197. Lewis formula is used in the design of
a) gears b) clutch c) chain drive d) belt drives
ans;- A
198. Air output of a duster is given by formula
a) $Q = 60 \times A \times V$ b) $Q = 60 \times A \times (2GH/Y)$ c) $Q = 240 \times A \times h$ d) all of the above
ans;- D
199. Optimum operating cylinder speed for the power operated maize sheller is
a) 200-400rpm b) 400-600rpm c) 600-800rpm d) 1000-1200rpm
ans;- C
200. Optimum operating cylinder speed for wheat threshing using power operated thresher is
a) 300-400rpm b) 400-600rpm c) 600-800rpm d) 1100-1200rpm
ans;- D
201. Optimum speed for grains like gram, pea, etc., thresher using power is
a) 300-400rpm b) 400-600rpm c) 600-800rpm d) 1100-1200rpm
ans;- A
202. Optimum moisture content for crop for better threshing is
a) 12-15% b) 15-20% C) 20-30% D) 5-10%
In sprayers , operating pressures belowKpa are undesirable for hydraulic nozzles other than flooding type.
Ans:- 140 1. In a combine harvester the peripheral speed of the cylinder ranges between m/min. Ans:- 1200 to 1500

2. The average working speed of a hand operated chaff fitted with two knives is rev/min. Ans:- 35
3. The unit of filter medium resistance is Ans:-L^-1
4. An indigenous plough cuts afurrow cross section.5. Ans:- Trapizoidal
6. A paddy transplanter uses either root wash type seedlings or seedlings. Ans:- soil bearing
4.55)Porosity is the ratio ofto the
4.56)Newton's law of gravitation can be expressed a F= where F is the force of gravitational attraction and the other variables are
4.57) Theend of a disc harrow tends to penetrate more deeply than theend.
4.58)The type of mould board that results in a greater degree of soil pulverization is known as
4.59)The drill ability of a granular fertilizer used in fertilizer drill isproportional to the angle of repose of the fertilizer.
4.60)Tilt angle of a disc plough is normally adjusted in the range ofdegree.
 Soil strength is described by a? type furrow openers are suitable for trashy or relatively hard ground. Coefficient of friction is the ratio of the tangential force to the force between the contact surface of two bodies Calculate the field efficiency of a 9 Tyne tiller with a row spacing of 20cms at 4kmph of the field coverage is 0.576ha/h A 3 bottom trailed MB plough experts a draft of 600kg while moving at 3kmph.calculate area draft for an operating depth of 20cms if the bottom size is 40cms .the furrow shape is trapezoidal with a furrow width at the bottom of 10cms
6. Soil pulverization can be quantified using of the ploughing soil7. In order to have proper alignment, the outer end of the mower cutter bar is provided with
a lead of aboutmm per metre bar length. 8. The slippage in a properly designed V-belt drive should not exceedto%.
9. The degree of soil pulverization by a mould board plough can be measured byof soil.
10. The average working speed of a hard operated chaff cutter fitted with two
knives isrpm. 11. In a combine harvester, the peripheral speed of the cylinder ranges
betweentom/min.
12. Tilt angle of disc plough is normally adjusted in the ofdegree.

13. 1)Draft of a plough should not exceed percent of draw bar
pull. 14. 2) A pitman transmits motion to a knife head
14. 2)A pitman transmits motion to a knife head. 15. 3)Land wheel fitted with a plough runs on the
16. 4)During the operation of the cutter bar mower, the knife edges trace apath in relation to the field surface.
17. 5)Cone index varies with
18. 4.31. The main objective of puddling in a rice field is to create surface below the soil to the
infiltration of water.
19. 4.32. In a wheat seed drill, atype seed metering mechanism
is provided. 20. 4.33 separates the discs on a gang of a tandem disc harrow.
21. 4.34.A machine is one in which the propelling power unit is an integral part of the implements
22. 4.35. Power to drive a metering mechanism of the tractor operatored planter is taken from the
23. 4.36. In a combine, the ratio of reel peripheral speed to forward speed under most conditions in upright crops should be to
·
4.3 The recommended spray volume in litres per hectare for high volume spraying is >500litres/ha
4.4 The recommended spray volume in litres per hectare for low volume spraying is 100 to 500 litre/ha
4.5 The recommended spray volume in litres per hectare for ultra volume spraying is <5litres/ha
4.6 The average HP developed by a human labour is 0.10 hp
4.7 The average HP developed by a pair of bullock is 1hp
4.8 The reaper harvests a cercal crop while a mower cuts the fodder crop
1. The ultra low volume sprayer's capacity varies between .
Ans:
2. Higher tractive efficiency occurs on a field. Ans:
3. The recommended spray volume in litre per hectare for high volume spraying is

Ans:
4. The recommended spray volume in litre per hectare for low volume spraying is .
Ans:
5. The recommended spray volume in litre per hectare for ultra volume spraying is
Ans: 6. The average HP developed by a human labour is .
Ans:
4.19 A disc harrow is a tillage implement while a disc plough is a tillage implement.
4.20 A sharp flat disc or knife blade attached to a mould board plough to cut the trash and reduce the draft is known as
4.21 The attachment used in mould board plough, to plough and cover the residue escaping coverage into bottom of furrow is known as
4.22 Tilt and disc angle is a standard disk plough varies as and
4.23 The tilt angle in a vertical disc plough is
4.24 By increasing tilt angle, depth of penetration
4.25 By increasing disc angle, depth of penetration, whereas width of cut
1.Byincreasingdiskangle,depthpenetrationbeoverwithofcut
Ans.decreases,increases
2.verticalsuctioninmouldboardploughiswhereashorizontalsuctionis
Ans.0.3to0.5cm,0.5cm
3.Subsoilerisusedatadepthof
Ans.45to75cm
4.Subsoilerconsistofcornerpointwhilechiselploughconsistof
Ans.Single,numberofstandard
5. The dryland farming implement which is used for so wing on planting is known as
Ans.Ridgerplanter