

FARM POWER QUESTION BANK

Q1. A man can develop:	
a) 0.1hp	b) 0.5 hp
c) 1hp	d) 0.75hp
Correct answer: A	
Q 2. The average force that a bullock can exert:	
a) 1/5th of their body weight	b) 1/10th of their body weight
c) 1/20th of their body weight	d) 1/25th of their body weight
Correct answer: B	
Q 3. Medium size bullock can develop:	
a) 0.50 to 0.75 hp	b) 0.75 to 1.0 hp
c) 0.75 hp to 1.1 hp	d) 1 hp to 1.5 hp
Correct answer: A	
Q 4. The thermal efficiency of diesel engine varies between:	
a) 25 and 32 per cent	b) 30 and 35 per cent
c) 32 and 38 per cent	d) 30 and 40 per cent
Correct answer: A	
Q 5. The extra high speed engines used in knapsack sprayers are powered by:	
a) Kerosene	b) Diesel
c) Petrol	d) Dual
Correct answer: C	
Q 6. The velocity required to operate wind mill is more than:	
a) 5 km ph	b) 10 km ph
c) 5 miles per hour	d) 10 miles per hour
Correct answer: B	
Q 7. A ten human power equals to:	
a) 0.1 hp	b) 0.5 hp
c) 1 hp	d) 10 hp
Correct answer: C	

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Q 8. Two wind mills equivalent to:			
a) 1.0 hp		b) 1.25 hp	
c) 1.50 hp		d) 2.0 hp	
Correct answer: A			
Q 9. The low speed engine runs at speed of:			
a) 350 rpm		b) less than 350 rpm	
c) more than 350 rpm		d) more than 1000 rpm	
Correct answer: B			
Q 10. The two-stroke engine is:			
<u>A.</u>	Diesel engine	<u>B.</u>	Steam engine
<u>C.</u>	Petrol engine	<u>D.</u>	None of these
Correct answer: C			
Q 11. Diesel engine works on principle of:			
<u>A.</u>	Diesel cycle	<u>B.</u>	Otto cycle
<u>C.</u>	Carnot cycle	<u>D.</u>	None of these
Correct answer: A			
Q 12. In four-stroke cycle engine, one power stroke is obtained after every:			
<u>A.</u>	Half revolution of crankshaft	<u>B.</u>	One revolution of crankshaft
<u>C.</u>	Two revolution of crankshaft	<u>D.</u>	Three revolution of crankshaft
Correct answer: C			
Q 13. The firing order of 4-stroke 4-cylinder engine is:			
<u>A.</u>	1-3-2-4	<u>B.</u>	1-3-4-2
<u>C.</u>	1-4-3-2	<u>D.</u>	1-2-3-4
Correct answer: B			
Q 14. The compression ratio of diesel engine is:			
<u>A.</u>	4 to 8:1	<u>B.</u>	14 to 20:1
<u>C.</u>	4 to 1:1	<u>D.</u>	14 to 22:1
Correct answer: B			
Q 15. The air fuel ratio of diesel engine is			
<u>A.</u>	8:01	<u>B.</u>	15:01
<u>C.</u>	20:01	<u>D.</u>	None of these
Correct answer: A			
Q 16. The oil pan of an engine is made of:			
<u>A.</u>	Steel or aluminum	<u>B.</u>	Cast iron or brass

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<u>C.</u>	Steel or cast iron	<u>D.</u>	Cast iron or zinc
Correct answer: A			
Q 17. The camshaft controls:			
<u>A.</u>	Valve closing	<u>B.</u>	Valve opening
<u>C.</u>	Valve timing	<u>D.</u>	All are correct
Correct answer: D			
Q 18. The pushrod is located between			
<u>A.</u>	Valve and rocker arm	<u>B.</u>	Tappet and rocker arm
<u>C.</u>	Tappet and camshaft	<u>D.</u>	Valve and camshaft
Correct answer: B			
Q 19. The specific fuel consumption of diesel engine is:			
<u>A.</u>	180 gm/bhp/hr	<u>B.</u>	200 gm/bhp/hr
<u>C.</u>	150 gm/bhp/hr	<u>D.</u>	290 gm/bhp/hr
Correct answer: B			
Q 20. The piston speed of an engine is equal to:			
<u>A.</u>	2 LN	<u>B.</u>	ALN
<u>C.</u>	4 LN	<u>D.</u>	None of these
Correct answer: A			

SHORT AND LONG QUESTIONS

- Q1. What are the different sources of farm power in India.
- Q2. Explain the following
- a) Wind Energy b) Biogas Energy c) Geothermal energy d) Solar Energy
- Q3. Explain Otto cycle and Diesel cycle with the help of PV diagram.
- Q4. Explain the construction and working of 2 stroke petrol engine.
- Q5. Explain the construction and working of 4 stroke Diesel engine.
- Q6. Discuss about various components of IC engine.
- Q7. What is purpose of lubrication in an IC engine?
- Q8. What are the different types of lubricants and explain with the help of neat sketch splash lubrication system and forced feed lubrication system?
- Q9. Why tractor engine has governor? How the tractor engine differs from car engine with respect to governor?
- Q10. Explain the working of Hit and Miss governor and Pneumatic governor.
- Q11. What is the purpose of cooling system in IC engine and what are the different methods of water cooling system explain forced circulation system with neat sketch.
- Q12. What are the different fuels used in IC engine and explain the following properties
- a) Volatility b) calorific value of fuel c) Ignition quality of fuel

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Q13. Explain fuel supply system in SI and CI engine and explain the working of each component with the help of neat sketch.