

	1. In the aircraft propellers a) the propulsive matter is ejected from within the propelled body					
b)the propulsive matter is caused to flow around the propelled body						
-	c) its functioning does not depend upon the presence of air					
d) none of the above						
2.	_	ence	d by a body, when in	motion, is known as		
	folling friction			c) limiting friction		
D)	dynamic friction			d) static friction		
3.	The point, through as	whic	ch the whole weight	of the body acts, irrespec	etive of its position, is known	
a)	moment of inertia			c)centre of percussion		
b)	centre of mass			d)centre of gravity		
	Which of the follow Force	ving	is a scalar quantity?	a) Valacity		
a)				<ul><li>c) Velocity</li><li>d) Acceleration</li></ul>		
b)	Speed			d) Acceleration		
	The force applied on 500N		dy of mass 100 kg to 100N	o produce an acceleration c)20N	n of 5 m/s <sup>2</sup> , is d) $40N$	
	One litre of water occ 100 cm <sup>3</sup>		es a volume of 1000 cm <sup>3</sup>	c) 500 cm <sup>3</sup>	d) 250 cm <sup>3</sup>	
	The value of bulk mo Mach number	odulu b)	ns of a fluid is requir Froude's number	ed to determine c)Reynold's number	d) Euler's number	
8. A rocket works with maximum overall efficiency when air-craft velocity is the jet velocity.						
	equal to	b) (	one-half	c)double	d) Triple	
					_	
		-	of transmission thro		1) 76 660/	
a)	66.67%	b)	56.7%	c) 50%	d) 76.66%	
	If a body floating in placement, the body			its original position, whe	n given a small angular	
a)	stable equilibrium	b)	neutral equilibrium	c) unstable equilibrium	d) none of these	
11	Th	C .		3 :3 :-		
a) 1		or a b) 1		weight is $7.85 \text{ kN/m}^3$ , is c) 1.2	d) 0.8	
a) 1	1.0	0) 1	L	C) 1.2	u) 0.0	
	If the depth of wate torrential flow		an open channel is le turbulent flow	ss than the critical depth c) tranquil flow	, the flow is called d) critical flow	
13.	13. The total head of a liquid particle in motion is equal to?					



b) pressure head - (kine c) pressure head + kinet	sure head + kinetic head tic head + potential head tic head + potential head are head + potential head	)	
delivery pressure at the	fourth stage will be		is 1 bar and 16 bar, then the
a) 1bar	b) 64 bar	c) 16 bar	d) 256 bar
b) the propulsive matter	llers is caused to flow around is ejected from within the	he propelled body	
16. The type of rotary c a) centrifugal type	ompressor used in aerop b) centripetal type	lanes, is of c) radial flow type	d) axial flow type
17. For perfect intercool $\frac{\rho_1}{\rho_3} = \frac{\rho_2}{\rho_1}$	ing in a two stage compa	ressor,	
a) p <sub>3</sub> p <sub>1</sub>	b) <sup>p</sup> <sub>1</sub>	c) $p_1 = p_3$	$\mathbf{d})p_1=p_2p_3$
constant volume, is call a) specific heat at constant	ed ant Joule	perature of the unit mass	of gas through one degree at
b) specific heat at const	ant pressure	d) specific heat at const	ant volume
19. The compression ra a) 3 to 6	tio for petrol engines is b) 20 to 30	c) 15 to 20	d) 5 to 8
20. Select the correct state a) $p.v = \text{constant}$ , if $T$ is $p/T = \text{constant}$ , if $v$	_	aw c) $v/T$ = constant, if $p$ is d) $T/p$ = constant, if $v$ is	-
<ul><li>a) Overheating of the fl</li><li>b) Overcooling of the b</li><li>c) Keeping the vehicle</li></ul>	auses vapour locking in uid due to frequent brake rakes during high speed without use for an extendengine speed on a downl	e application driving led period	
22. The motion of the can Pistons	am is transferred to the v b) rocker arms	valves through c) camshaft pulley	d) valve stems
23. The unit of energy i a) Joule metre (Jm)	s S. I. units is b) Joule (J)	c)Watt(W)	d) Joule/metre (J/m)



24. The amount of heat generated per kg of fuel is known as a) Calorific value b) heat energy c) lower calorific value d) higher calorific value					
25. The entropy may be expressed as a function of a) Temperature and volume c) heat and work b) Pressure and temperature d) all of these					
26. The is a) pulverised coal	s obtained when carbonized b) hard coke	ation of coal is carried or c) soft coke	ut at 500° to 700° C. d)bituminous coal		
27. The chart which gives an estimate about the amount of materials handling between various work stations is known as					
a) Flow chart	b) process chart	c) travel chart	d) operation chart		
28. A device used for lifting or lowering objects suspended from a hook at the end of retractable					
chains or cable is calle a) jib crane	b) hoist	c) portable elevator	d) chain conveyor		
	g the path followed by me b) string diagram		erforming a task is known as d) flow diagram		
30. The specific fuel coa) 0.2 Kg	onsumption per B.P. hour b) 0.3 Kg	for a petrol engine is ab	oout d) 0.35 Kg		
31. Number of working strokes per min. for a two stroke cycle engine are the speed of the engine in r.p.m.					
the engine in r.p.m.	•		•		
	g strokes per min. for a tw b) one-half	vo stroke cycle engine ar	the speed of d)four-times		
the engine in r.p.m. a)equal to  32. A fuel of cetane nu a)40% petrol and 60%	b) one-half mber 40 has the same ign	c)twice nition quality as a mixtur c)40% cetane and 60%	d)four-times re of alpha methyl napthalene		
the engine in r.p.m. a)equal to  32. A fuel of cetane nu a)40% petrol and 60% b)40% alpha methyl na	b) one-half mber 40 has the same ign diesel aphthalene & 60% cetane	c)twice nition quality as a mixtur c)40% cetane and 60% d)40% diesel and 60%	d)four-times re of alpha methyl napthalene		
the engine in r.p.m. a)equal to  32. A fuel of cetane nu a)40% petrol and 60% b)40% alpha methyl na	b) one-half mber 40 has the same igr diesel	c)twice nition quality as a mixtur c)40% cetane and 60% d)40% diesel and 60%	d)four-times re of alpha methyl napthalene		
the engine in r.p.m. a)equal to  32. A fuel of cetane nu a)40% petrol and 60% b)40% alpha methyl na 33. In petrol engines, ta a)0.001 second  34.A train running at the	b) one-half  mber 40 has the same ign diesel  aphthalene & 60% cetane  the delay period is of the o	c)twice nition quality as a mixtur c)40% cetane and 60% d)40% diesel and 60% order of c)0.003 second	d)four-times re of alpha methyl napthalene petrol d)0.002 second		
the engine in r.p.m. a)equal to  32. A fuel of cetane nu a)40% petrol and 60% b)40% alpha methyl na 33. In petrol engines, to a)0.001 second	b) one-half  Imber 40 has the same ign diesel  Aphthalene & 60% cetane  the delay period is of the of b) 0.004 second	c)twice nition quality as a mixtur c)40% cetane and 60% d)40% diesel and 60% order of c)0.003 second	d)four-times re of alpha methyl napthalene petrol d)0.002 second		
the engine in r.p.m. a)equal to  32. A fuel of cetane nu a)40% petrol and 60% b)40% alpha methyl na  33. In petrol engines, ta a)0.001 second  34.A train running at the train? a)150 metres  35. Two trains are mov 1.10 km and 0.9 km re	b) one-half  Imber 40 has the same ign diesel Aphthalene & 60% cetane he delay period is of the 6 b) 0.004 second he speed of 60 km/hr cross	c)twice nition quality as a mixtur c)40% cetane and 60% d)40% diesel and 60% order of c)0.003 second sses a pole in 9 seconds. c)324 metres s @ 60 km/hrand 90 km/	d)four-times  re of alpha methyl napthalene petrol  d)0.002 second  What is the length of the d)120 metres  /hr. Their lengths are		
the engine in r.p.m. a)equal to  32. A fuel of cetane nu a)40% petrol and 60% b)40% alpha methyl na 33. In petrol engines, ta a)0.001 second  34.A train running at the train? a)150 metres  35. Two trains are move	b) one-half  Imber 40 has the same ign diesel Inphthalene & 60% cetane the delay period is of the of b) 0.004 second  The speed of 60 km/hr cross b) 180 metres  Ving in opposite direction	c)twice nition quality as a mixtur c)40% cetane and 60% d)40% diesel and 60% order of c)0.003 second sses a pole in 9 seconds. c)324 metres s @ 60 km/hrand 90 km/	d)four-times  re of alpha methyl napthalene petrol  d)0.002 second  What is the length of the d)120 metres  /hr. Their lengths are		
the engine in r.p.m. a)equal to  32. A fuel of cetane nu a)40% petrol and 60% b)40% alpha methyl na 33. In petrol engines, ta a)0.001 second  34.A train running at the train? a)150 metres  35. Two trains are mov 1.10 km and 0.9 km re Seconds is: a)48	b) one-half  Imber 40 has the same ign diesel  Aphthalene & 60% cetane  the delay period is of the of b) 0.004 second  The speed of 60 km/hr cross b) 180 metres  Ving in opposite direction spectively. The time take b)45	c)twice nition quality as a mixtur c)40% cetane and 60% d)40% diesel and 60% order of c)0.003 second sses a pole in 9 seconds. c)324 metres s @ 60 km/hrand 90 km/n by the slower train to c c)36	d)four-times  re of alpha methyl napthalene petrol  d)0.002 second  What is the length of the d)120 metres  /hr. Their lengths are cross the faster train in		

3 Mechanical



	37. Q is as much younger than R as he is older than T. If the sum of the ages of R and T is 50 years, what is definitely the difference between R and Q's age?					
	a) Data inadequate	b) 1 Year	c)25 Years	d) 2 Years		
	38. A can finish a work in 24 days, B in 9 days and C in 12 days. B and C start the work but are force to leave after 3 days. The remaining work was done by A in:					
	a) 5 days	b) 6 days	c) 12 days	d) 10 days		
	39. Pipes A and B can fill a tank in 5 and 6 hours respectively. Pipe C can empty it in 12 hours. If all the three pipes are opened together, then the tank will be filled in:					
	a)6 hours	b) 7 hours	c)9 hours	d) 5 hours		
	40. A man is 24 years older than his son. In two years, his age will be twice the age of his son. The present age of his son is:					
	a) 22 years	b) 18 years	c) 20 years	d) 14 years		
	41.1of 2.We 3. Heard 4 a)42351	4.Him 5.had b) 52341	c)25314	d) 25431		
	42. Tanya is older than Eric; Cliff is older than Tanya; Eric is older than Cliff. If the first two statements are true, the third statement is a)true b) uncertain c)false					
	43.Choose the alternati	we which is closely reserve	mbles the mirror	image of the given combination.		
	EFFECTIVE (1) STREET (1) (1) STREET (1)		TCEFFE TSEFTECT			
44. Choose the alternative which is closely resembles the mirror image of the given combination.						
	<b>2</b> ?					
	(1) (2)	(3) (4)				
	a)1	b)2	c)3	d) 4		
	45.FURORE a) Excitement	b) Worry	c)Flux	d)Anteroom		
	46. MENDACIOUS a) Full of Confidence	b) Encouraging	c)False	d) Provocative		



47. DEBACLE

a) Decline b) Collapse c) Defeat d) Disgrace

48. I told him that he was not working hard.

a) I said to him, "You are not working hard." c) I said, "You are not working hard."

b) I told to him, "You are not working hard." d) I said to him, "He is not working hard."

49. "Please don't go away", she said.

a) She said to please her and not go away. c) She told me to go away.

b) She begged me not to go away.

d) She begged that I not go away.

50. The man said, "No, I refused to confers guilt."

a) The man refused to confers his guilt.

b) The man emphatically refused to confers guilt.

c)The man told that he did not confers guilt.

d) The man was stubborn enough to confers guilt.

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