84/2014

Maximum: 100 marks

Time: 1 hour and 15 minutes

	Carrier St. Towns			
1.	Heavy	flywheel	required	in:

(A) Multi cylinder engine

(B) Two stroke engine

(C) V-Engine

(D) Single cylinder engine

2. In two stroke three cylinder engine, the firing interval of crank shaft is:

(A) 360°

(B) 240°

(C) 60°

(D) 120°

3. The diameter of inlet valve is:

- (A) Same as exhaust valve
- (B) Greater than exhaust valve
- (C) Smaller than exhaust valve
- (D) 1/4th of exhaust valve

Firing order of 4 cylinder 'I'-head engine is:

(A) 1-2-3-4

(B) 1-3-4-2

(C) 1-2-4-3

(D) 1-4-2-3

5. Material used for making cylinder head gasket is :

(A) Copper and asbestos

(B) Cork and copper

(C) Sheet of aluminium

(D) Asbestos and fibre

6. Engine with equal bore and stroke is called:

(A) Uniform engine

(B) Equalised engine

(C) Square engine

(D) None of these

Vibration damper is mounted:

(A) On flywheel

- (B) Front end of gear box
- (C) Front end of crank shaft
- (D) Top end of connecting rod

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8.	Excessive	valve stem – guide clearance may	ause :				
	(A)	Valve breakage	(B)	Noisy valve operation			
	(C)	Valve face wear	(D)	Necking of valve stem			
9.	Exhaust	valve face angle is generally:					
	(A)	30°	(B)	60°			
	(C)	45°	(D)	15°			
10.	The inlet	valve starts opening:					
	(A)	At TDC	(B)	At BDC			
	(C)	Before TDC	(D)	After TDC			
11.	Aluminiu	m alloy is used to make piston for :	**	6			
	(A)	Reduce piston expansion	(B)	Make the piston stronger			
	(C)	Reduce corrosion	(D)	Reduce piston weight			
12.	Compress	sion rings are generaly made of:	K				
	(A)	Steel	(B)	High carbon steel			
	(C)	Aluminium	(D)	Chromium			
13.	Maximun	n permissible bearing clearance for t	he cam s	haft is:			
	(A)	0.05 mm	(B)	0.01 mm			
	(C)	0.5 mm	(D)	0.7 mm			
14.	Cylinder head is tightened by using:						
	(A)	Spanner	(B)	Lifting screw			
	(C)	Torque spanner	(D)	Hammer			
15.	In Radiat	or, coolant is pumped from:					
	(A)	Radiator cores	(B)	Collector tank			
	(C)	Upper tank	(D)	Reservoir tank			
16.	Thermost	at in cooling system is used to:					
	(A)	Reduce temperature of coolant					
	(B)	Protect radiator from bursting					
	(C)	Transfer coolant from radiator to o	engine				
	(D)	Maintaining coolant temperature					
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17.	Coolant pu	ımp used in automobile is :		
	(A)	Reciprocating type	(B)	Vane type
	(C)	Centrifugal type	(D)	None of the above
18.	Radiator o	ore is made of :		
	(A)	Steel	(B)	Copper
	(C)	Cast iron	(D)	Plastic
19.	The lubric	ation system commonly used in two st	roke e	engine is :
	(A)	Splash	(B)	Drisump
	(C)	Pressure	(D)	Petroil
20.	Number o	f gears used in gear pump is :		3 O ^C O
	(A)	4	(B)	3
	(C)	2	(D)	. જે.
21.	One of the	e reason of high oil consumption in eng	ine is	
	(A)	Oil having high viscosity	(B)	Oil lines clogged
	(C)	The releaf valve may be struck	(D)	Incorrect piston ring gap
22.	Oil filter	should be changed near about —	— k	ilometers of vehicle run.
	(A)	10,000	(B)	25,000
	(C)	50,000	(D)	60,000
23.	Oil passe	s from the oil pump to :		
	(A)	Oil gallery	(B)	Main bearings
	(C)	Oil stainer	(D)	Oil filter
24.	End play	of gears of an oil pump is checked by :		
	(A)	Inside caliper	(B)	Vernier
	(C)	Outside caliper	(D)	Feeler gange
25.	Calorific	value of gasolines is approximately :		
	(A)	40 MJ/Kg	(B)	20 MJ/Kg
	(C)		(D)	
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Diesel kn	ock happens when :		
(A)	Ignition delay period increases	(B)	Ignition delay period decreases
(C)	C.R is high	(D)	None of these
Common	fuel supply system in two-wheeler i	s:	
(A)	Pressure	(B)	Pump
(C)	Gravity	(D)	Vaccum
Stoichiom	etric mixture of petrol engine at its	ideal con	dition is:
(A)	14.6:1	(B)	20:1
(C)	12:1	(D)	1:1
The drive	for mechanical fuel pump is taken	from :	£9
(A)	Cam shaft	(B)	Crank shaft
(C)	Distributor shaft	(D)	None of these
The choke	e used in petrol engine for :		
(A)	Accelerating the vehicle	(B)	Idealing the engine
(C)	Stopping the engine	(D)	Starting the engine
The ventu	ari in carburettor is used to:		
(A)	Accelerate the engine		
(B)	Cold starting		
(C)	Increasing fuel pressure		
(D)	Increase air velocity for suction of	fuel	
In petrol	injection system, the petrol is comm	only injec	cted into:
(A)	The port	(B)	The throttle
(C)	Cylinder	(D)	Venturi
An examp	ole of constant vaccum type carbure	ttor is :	
(A)	Solex carburattor	(B)	S.U carburettor
(C)	Zenith carburettor	(D)	Carter carburettor
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	(A) (C) Common (A) (C) Stoichiom (A) (C) The drive (A) (C) The choke (A) (C) The ventu (A) (B) (C) (D) In petrol i (A) (C) An examp	(C) C.R is high Common fuel supply system in two-wheeler i (A) Pressure (C) Gravity Stoichiometric mixture of petrol engine at its (A) 14.6:1 (C) 12:1 The drive for mechanical fuel pump is taken i (A) Cam shaft (C) Distributor shaft The choke used in petrol engine for: (A) Accelerating the vehicle (C) Stopping the engine The venturi in carburettor is used to: (A) Accelerate the engine (B) Cold starting (C) Increasing fuel pressure (D) Increase air velocity for suction of In petrol injection system, the petrol is comm (A) The port (C) Cylinder An example of constant vaccum type carburer (A) Solex carburattor (C) Zenith carburettor	(A) Ignition delay period increases (B) (C) C.R is high (D) Common fuel supply system in two-wheeler is: (A) Pressure (B) (C) Gravity (D) Stoichiometric mixture of petrol engine at its ideal condition (A) 14.6:1 (B) (C) 12:1 (D) The drive for mechanical fuel pump is taken from: (A) Cam shaft (B) (C) Distributor shaft (D) The choke used in petrol engine for: (A) Accelerating the vehicle (B) (C) Stopping the engine (D) The venturi in carburettor is used to: (A) Accelerate the engine (B) Cold starting (C) Increasing fuel pressure (D) Increase air velocity for suction of fuel In petrol injection system, the petrol is commonly injection of the constant vaccum type carburettor is: (A) Solex carburattor (B) (C) Zenith carburettor (D)

34.	The compr	ression ratio of C.I engine is no	ear about :			
	(A)	22:1	. (1	B)	7:1	
	(C)	10:1	(1	D)	15:1	
35.	The test u	sed for finding brake power of	each cyline	der i	n multy cylinder is called :	
	(A)	Power test	(1	B)	Efficiency test	
	(C)	Morse test		D)	Stroke test	
36.	Brake mea	an effective pressure in an eng	gine depend	ls up	oon its :	
	(A)	Speed		B)	Power	
	(C)	Torque	. (D)	Compression ratio	
37.	Ignition co	oil is used to:			19	
	(A)	Increase the voltage	(B)	Increase the current	
	(C)	Controls the ignition	(D)	None of these	
38.	Condense	r in ignition system is mounte	ed:			
	(A)	In the carburettor	100	B)	On the spark plug	
	(C)	In the distributor housing		(D)	On the ignition coil	
39.	The factor	r which will not effect ignition	advance is	:		
	(A)	Speed	((B)	Load	
	(C)	Engine temperature		(D)	Battery voltage	
40.	Hot spark	s is used in :				
	(A)	Medium duty engine	1 1	(B)	Heavy duty engine	
	(C)	High speed engine		(D)	All of the above	
41.	The prim	ary winding of ignition coil co	nsists of:			
	(A)	Many turns of thin wire		(B)	Few turns of thick wire	
	(C)	Many turns of thick wire		(D)	Few turns of thin wire	
42.	Spark oc	curs when:				
	(A)	C.B. point opens		(B)	C.B. point closes	
	(C)	Ignition switch is on		(D)	Primary voltage increases	04/0014
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43.	Spark plu	ng having white insulator tip ir	ndicates:		
	(A)	Leaded fuel	(B)	Gas leak	
	(C)	Retarded ignition	(D)	Over advanced ignition	
44.	The num	ber of ignition coils in a distrib	utor less igniti	on system for a 6 cylinder engine is:	
	(A)	1	(B)	6	
	(C)	2	(D)	3	
45.	Increasin	g plate size in lead acid battery	y increases :		
	(A)	Voltage	(B)	Current	
	(C)	Capacity	(D)	None of these	
46.	The numb	per of negative plates in lead ac	cid battery is :	O'C'S	
	(A)	One more than +Ve plate	(B)	Three more than +Ve plate	
	(C)	One less than +Ve plate	(D)	Two less than +Ve plate	
47.	Specific g	ravity of fully charged battery	is		
	(A)	2.30	(B)	1.29	
	(C)	1.60	(D)	12	
48.	The negat	tive plate of lead acid battery h	as:		
	(A)	Pb	(B)	PbO ₂	
	. (C)	Pb ₂ O ₂	(D)	SO4	
49.	Cadmium	test in lead acid battery is to f	ind:		
	(A)	sp. gravity of electrolyte	(B)	concentration of H ₂ SO ₄	
	(C)	chemical condition of plates	, (D)	self discharge	
50.	Internal s	hort circuiting in plates is due	to:		
	(A)	High voltage	(B)	Overcharging of battery	
	(C)	Plate damage	(D)	Damaged separators .	
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51.	Cut out re	elay is used to :		
	(A)	Increase the voltage in circuit		
	(B)	Increase the current in circuit		
	(C)	Charging of battery		
	(D)	Prevent discharge of battery to	o generator	
52.	The outpu	nt of alternator is controlled by :		
	(A)	Voltage regulator	(B)	Current regulator
	(C)	Brushes	(D)	None of the above
53.	Growler i	s used for testing:		
	(A)	Inertia of bendex	(B)	Short circuit of armature
	(C)	Clearance of armature	(D)	Earthing of starter motor
54.	Parking d	istance of a vehicle from fire en	gine is :	0.
	(A)	2 meter	(B)	1 meter
	(C)	4 meter	(D)	1 Kilometer
55.	The docur	nent which shows the maximum	n weight that	a vehicle can carry :
	(A)	Permit	(B)	Insurance certificate
	(C)	Goods carriage record	(D)	None of these
56.	Should no	t reverse the vehicle in :		
	(A)	Ferry	(B)	Upward gradient
	(C)	One way	(D)	Railway gate
57.	The dista	nce kept by the vehicle in the ba	ack of other v	ehicle running in same direction is :
	(A)	10 meter	(B)	5 meter
	(C)	2 meter	· (D)	6 meter
58.	Number o	f passengers can travel on the b	oack seat of a	motor cycle is :
	(A)	2	(B)	1 adult and 1 child
	(C)	1	(D)	0
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59.	The signal	l which is not able to show by electr	ric equipn	nent is:	
	(A)	Overtaking permission	(B)	Left turn	
	(C)	Stopping	(D)	Reverse	
60.	Maximum	speed of a motorcycle is :			
	(A)	50 km/hr	(B)	60 km/hr	
	(C)	70 km/hr	(D)	No limit	
61.	While rea	ching a junction a vehicle should give	ve prefere	ence:	
	(A)	to left side vehicle	(B)	rear vehicle	
94.	(C)	right side vehicle	(D)	none of the above	
62.	Yellow lin	e at the center of the road shows:		0,50	
	(A)	Should not overtake	70		
	(B)	Not allowing heavy vehicle			
	(C)	Should not allow other vehicle to	overtake		
	(D)	Should not cross the line			
63.	Yellow lig	ht on automatic signal shows:			
	(A)	Turn right	(B)	Should not stop the vehicle	
	(C)	Make ready to move the vehicle	(D)	Allow other vehicle to overtake	
64.	The place	where the vehicle is not permitted	to park :		+
	(A)	Near bus stop	(B)	Road with downward gradient	
	(C)	Public road side	(D)	Near to public office	
65.	Number o	f person allows on a tractor :			
	(A)	One	(B)	Two	
	(C)	Ten	(D)	None	
66.	Loose gear	r on the main shaft in a gear box m	ay cause		
	(A)	Easy gear shifting	(B)	Clash of gears	
	(C)	Gear slipping	(D)	None of these	
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67.	Increasin	g of torque in gear box by :		
	(A)	Decreasing power	(B)	Increasing power
	(C)	Decreasing speed	(D)	Increasing speed
68.	Epicyclic	gear box is used in :		
	(A)	Automatic transmission	(B)	Petrol vehicles
	(C)	Locomotive engines	(D)	Heavy vehicle
69.	Axle shaf	t is splinned to :		
	(A)	Differential cage	(B)	Sun gear
	(C)	Crown wheel	(D)	Propeller shaft
70.	Torque tr	ansmission at an angle made by	:	40
	(A)	Bearings	(B)	Slide joint
	(C)	Helical gears	(D)	Universal joint
71.	Fading of	brakes occurs :		
	(A)	During continuous application	(B)	At high speed
	(C)	At low speed	(D)	None of these
72.	Shock abs	sorber is used to:		
	(A)	Take the load of a vehicle	(B)	Keep the vehicle for stability
	(C)	Damping the vibration of sprin	ng (D)	Keep the wheels in same position
73.	Inclinatio	n of king pin in the plane of tyre	e is called:	
	(A)	Castor	(B)	Camber
	(C)	Kingpin inclination	(D)	Toe-in
74.	Excessive	castor may cause :		
	(A)	Excessive tyre wear	(B)	Wheel wobbling
	(C)	Wheel tramp	(D)	Hard steering
75.	Purpose o	of tyre rotation is for :		
	(A)	Avoiding ply separation	(B)	Reducing uneven wear
	(C)	Equalising wear	(D)	Avoiding wheel wobbling
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76.		eding is used for :	(D)	Din a sin	
	(A)	Removing excess fluid	(B)	Removing air	
	(C)	Removing excess pressure	(D)	Removing vaccum	
77.	The term	"ply rating" with reference to	a tyre indicate	s:	
	(A)	Number of plies	(B)	Rated inflation	
	(C)	Rated strength	(D)	Size of tyre	
78.	The type	of reflector used for automobil	e head lamp is		
	(A)	Spherical	(B)	Parabolic	
	(C)	Hyperbolic	(D)	Plain	
79.	The diam	eter of the engine cylinder is o	alled:	40	
	(A)	Boss	(B)	Rim	
	(C)	Bore	(D)	Stroke	
80.	When chi	ld lock is actuated the door ca	n't be opened?		
	(A)		(B)	From inside	
	(C)-	For a few minutes	(D)	From outside	
01	Which of	the following Divors flows was	stward?		
81.		the following Rivers flows wes		Vannai	
	(A)	Krishna	(B)	Kaveri	
	(C)	Mahanadi	(D)	Narmada	
82.	Who was	the leader of Vaikyam satyag	raha?		
	(A)	A.K. Gopalan	(B)	K.Kelappan	
	(C)	T.K. Madhavan	(D)	Mannath Padpnabhan	
83.	Who was	the first Defence Minister of l	ndia after Indi	a became independent:	
	(A)	Sardar Vallabai Pattel	(B)	V.K. Krishnan Menon	
	(C)	V.P. Menon	(D)	Moulana Abdul Kalam Azad	
84.	Who was	the President of Indian Natio	nal Congress d	uring the time of partition of Bengal?	
	(A)	Gopalakrishna Gokale	(B)	Bala Gangadhara Tilak	
	(C)	Dada Bai Naoroji	(D)	Subhash Chandra Bose	
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85.	Central C	oconut Research Station Situated at :		
	(A)	Thiruvananthapuram	(B)	Calcutta
	(C)	Kasergode	(D)	Jodhpur
86.	The word	"Socialist, Secular" were added into t	he prea	amble of Indian Constitution by the :
	(A)	24th Amendment	(B)	25th Amendment
	(C)	42nd Amendment	(D)	37th Amendment
87.	The year	of Aruvipuram Prathishta done by Sr	ee Nara	ayana Guru :
	(A)	1888	(B)	1898
	(C)	1903	(D)	1788
88.	The Assoc	ciation formed by Poikayil Yohannan		(0)
	(A)	PRCS	(B)	PRDA O
	(C)	PRDS	(D)	PADS
89.	The Aray	a Samajam was founded by :	1	
	(A)	Sahodaran Ayyappan	(B)	Pandit Karuppan
	(C)	Ayyankali	(D)	Ayya Vaikundar
90.	The dram	a 'Adukalayil Ninnu Arangathekku' v	vritten	by:
	(A)	E.M.S. Namboodiripad	(B)	Vagbadananda
	(C)	V.T. Bhatathiripad	(D)	Chempaka Raman Pillai
91.	The Kolla	m Era began in which year :		
	(A)	A.D. 825	(B)	A.D. 925
	(C)	A.D. 78	(D)	A.D. 390
92.	Black soil	was founded in which district of Ker	ala :	
	(A)	Idukki	(B)	Wayanad
	(C)	Palakkad	(D)	Kottayam
93.	In addition	on to Lakdives which among them was	s one of	the coral Island in Arabian Sea :
	(A)	Sree Lanka	(B)	Andaman Nicobar
	(C)	Medagasker	(D)	Mal dives
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94.	In the following statements w	hich statement	is comm	on to the	rivers	Pamba,	Meenachilaru
	and Muvattupuzha:						

- (A) Length below 100 metre
- (B) Reached at Arabian sea
- (C) Reached at Vembanattu Lake
- (D) Flowing through kottayam and Alapuzha districts

95. The Hirakud Dam constructed in which River:

(A) Mahanadi

(B) Satlej

(C) River Ganga

(D) River Bageeradi

96. Indian planning commision came in to exist:

(A) 1950 - March

(B) 1950 - June

(C) 1951 - December

(D) 1951 - March

97. 'National Food security bill' passed by Lok Sabha on:

(A) 2013 - Aug - 26

(B) 2013 - Sept - 26

(C) 2013 - July - 26

(D) 2013 – Octo – 26

98. India's first Mars discovery satelite:

(A) PSLV - 5D

(B) Metsat

(C) Mangalyan

(D) Chandrayan

99. The languages in India which is attained lastly the classical status:

(A) Tamil

(B) Malayalam

(C) Telungu

(D) Sanskrit

100. In which Olympics India got more medals:

- (A) 2012 London Olympics
- (B) 2004 Athens Olympics
- (C) 2008 Baijing Olympics
- (D) 2000 Sydney Olympics

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