Maximum: 100 marks

Time: 1 hour and 15 minutes

1.	Now a day	s the type of gear box u	(77)	Sliding mesh gear box	
	(A)	Synchromesh gear box			
	(C)	Constant mesh gear bo	ox (D)	Planetary gear box	
2.	In an ice p	plant the refrigerant ger	nerally used is:		
	(A)	Carbon Dioxide	(B)	Ammonia	
	(C)	Air	(D)	Freon	
3.	In which	cycle petrol engine work	cs:		
	(A)	Diesel cycle	(B)	Carnot cycle	
	(C)	Otto cycle	(D)	Duel combustion cycle	
4.	Which is	not the function of brak	te in a vehicle?		
	(A)	To increase the torqu	e of wheel		
	(B)	To stop the vehicle in	shortest distance		
	(C)	To slow down the veh	nicle		
	(D)	To control the vehicle	steadily, specially w	when vehicle descends dow	n a niii
5.	In centri	ifugal pump the negativ	e pressure is created	l at:	
٥.	(A)		(B	) Impeller eye	
	(C		(D	)) Foot valve	
0	Which i	rrigation method soil er	osion is mostly contr	colled?	
6.		) Surface irrigation	(E	3) Sprinkler irrigation	
	(0		(I	D) Border strip irrigation	
7.	In CFT	RI 'F' represents :			
	(4		0	B) Farm	
	((		0	D) Food	
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					Variable Control

8.	Which is	not the part of air brake?		
	(A)	Fly wheel	(B)	Compressor
	(C)	Unloader valve	(D)	Reservoir
9.	Displace	ment pumps are also known as :		
	(A)	Centrifugal pump	(B)	Turbine pump
	(C)	Propeller pump	(D)	Reciprocating pump
10.	Spanners	s are generally made of :		
	(A)		(B)	Chrome vanadium steel
	(C)	Aluminium	(D)	Mild steel
11.	From the	following which is not a cause of lov	v dischar	ge in a centrifugal numn
	(A)	Speed of pump is low	(B)	There is mud on the suction line
	(C)	Delivery pipe is more big in size	(D)	Air leak in the suction line
12.	In a carb	urettor air fuel ratio for cold starting	7 .	
		9:1	(B)	15:1
	(C)	8:1	(D)	1:1
13.	In an air	brake system the working fluid is:		
	(A)	Compressed air	(B)	Compressed liquid
	(C)	Heated air	(D)	Heated liquid
14.	When cut	ting by hacksaw we do not press in i	Language d	
	(A)	The teeth is projected backward		
	(C)	The teeth is projected vertical	(B) (D)	The teeth is projected forward  No such thing
15.	Which is			which has output voltage 200 volt and
	(A)	10	(B)	5
	(C)	0.5	(D)	8000
16.	Calculate	the total resistance of 3.5 ohms, 2.7	i ohme o	nd 4 ahma connected in accion
		4 ohms	(B)	2.75 ohms
07/00	(C)	3.5 ohms	(D)	10.25 ohms
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	Complete	the series:			
17.	Voltage:	Volt , Current : Ampere, Resistan	ce:		
	(A)	Ohm	(B)	Tesla	
	(C)	Newton	(D)	Watt	
18.	Parboiling	g : CFTRI, Storage structure : Kot	hari, Desh	elling:	
	(A)	Under runner disk sheller	(B)	Horizontal rice	whitening machine
	(C)	Knap sack sprayer	(D)	Rasp bar cylind	ler
19.		is the removal of hulls and l	bran from 1	paddy grain to pr	oduce polished rice :
	(A)	Deshelling	(B)	Parboiling	
	(C)	Threshing	(D)	Rice milling	
	Pick out t	he odd one out :	Y.		
20.	Motor, Ge	enerator ,Thresher ,Transformer :			
	(A)	Thresher	(B)	Motor	
	(C)	Transformer	(D)	Generator	
21.	Brake sho	oe, liner, fuel injector, brake drum	:		
	(A)	Brake drum	(B)	Fuel injector	
	(C)	Brake shoe	(D)	Liner	
22.	A pump is	s a machine which convert :			
	(A)	Mechanical energy in to electrical	al energy		
	(B)	Heat energy in to mechanical en	ergy		
	(C)	Chemical energy in to heat energy	gy		
	(D)	Mechanical energy in to pressure	e energy		
23.	A machin	e which convert electrical energy i	n to mecha	nical energy :	
	(A)	Generator	(B)	Motor	
	(C)	Transformer	(D)	Electrical cell	
24.	Pick out v	which not matching:			
	(A)	Refrigerant - Crushing			
	(B)	Cold storage - Vapour compress	ion system		
	(C)	Grain drying - Moisture content			
	(D)	Storage structure - Kothari			

25.	Which is	the storage structure for grass?		
20.	(A)	Anvil	(D)	Silo
	(C)	Gun	(B)	
	(0)	Gun	(D)	Strainer
26.	Importan	nt component of a drier :		
	(A)	Impeller	(B)	Beam
	(C)	Discharge feed roller	(D)	Fins
27.		is removed during whitening of	the ric	ee.
	(A)	Husk	(B)	Moisture
	(C)	Stone	(D)	Bran
28.	Which irr	rigation is commonly seen in Kuttanao	d?	
	(A)	Sprinkler	(B)	Drip
	(C)	Sub surface	(D)	None of these
29.	Which is	the following is not the advantages of	rice br	an?
	(A)	It contain vitamin C	(B)	It contain cholesterol anti oxide
	(C)	It contain large amount of protein	(D)	It contain vitamin B
30.	The drip i	irrigation method is also called:		
	(A)	Sprinkler irrigation	(B)	Surface irrigation
	(C)	Sub surface irrigation	(D)	Trickle irrigation
31.	From the	following statement which is false:		
	(A)	In solvent oil extraction method can	produc	e oil in bulk amount industrially
	(B)	In solvent oil extraction method n because of high Temperature	o possi	bility of changing chemical structur
	(C)	More possibility of loss of oil on proce	essing i	n solvent oil extraction method
	(D)	More pure oil is get in solvent oil ext		
32.	Which is r	not a type rice whitener?		
	(A)	Wire loop type thresher		
	(B)	Friction type		
	(C)	Grinding type		
	(D)	Combination of friction and grinding	type	
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33.	The tillag	e system which is most suited fo	r area of hig	h rain fall :
	(A)	Rotary strip tillage system	(B)	Minimum tillage system
	(C)	Till plant system	(D)	Ridge planting system
34.	The diam	eter of a engine is called :		
	(A)	Bore	(B)	Stroke
	(C)	TDC	(D)	BDC
35.	The power	r developed in an engine cylinder	r is:	
	(A)	Indicated horse power	(B)	Brake horse power
	(C)	Frictional horse power	(D)	No power is developed
36.	Which mo	ould body is preferred for more st	tick is oil wh	ere it is difficult to get the mould board
	(A)	Stubble	(B)	SOD
	(C)	High speed	(D)	Slat
37.	The ratio	of brake horse power to indicate	d horse pow	er is called:
	(A)	Mechanical efficiency	(B)	Thermal efficiency
	(C)	Air standard efficiency	(D)	Fuel efficiency
38.	A trailed	implement is:		
	(A)	Rigidly attached to tractor as weight	nd has a re	ar wheel or wheels support part of it
	(B)	It attached to tractor as an int	egral part	
	(C)	Is one that attached to tractor the ground	r draw bar b	by pin joint whose weight supported on
	(D)	There is no such implement		
39.	Pick out	which is not match:		
	(A)	Spark plug—Petrol engine	(B)	Differential—Master cylinder
	(C)	Injector—Diesel engine	(D)	Clutch—Friction plate
40.	Which m	ethod was developed at 'Tiruvarı	ır' India late	er half of 1969?
	(A)	Kisan continuous par boiling	(B)	Fernandes process
	(C)	CFTRI method	(D)	Pressure par boiling
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41.	The lubric	cating oil used in gear box of a tr	actor is :	
	(A)	SAF 30	(B)	SAE 90
	(C)	SAE 40	(D)	SAE 20
42.	Pick the c	odd one out :		
	(A)	Throttle valve	(B)	Float chamber
	(C)	Control rack	(D)	Choke valve
43.	In weldin	g electrode the flex coating is use	ed:	
	(A)	To get high temperature		
	(B)	To fuse metal easily		
	(C)	To protect fused metal from oxi	idation and	to get strength to weld
	(D)	For electrical insulation		
44.	Evapo tra	nspiration is the sum of two terr	ns:	
	(A)	Transpiration and infiltration	(B)	Transpiration
	(C)	Transpiration and evaporation	(D)	Infiltration and evaporation
45.	Which is t	the process of removing metal by	means of co	old chisel:
	(A)	Filing	(B)	Chipping
	(C)	Drilling	(D)	Threading
46.	Which is a	precision measuring instrumen	t:	
	(A)	Steel rule	(B)	Vernier calliper
	(C)	Brass rule	(D)	Spring calliper
47.	Which is u	used for marking and testing of 9	0 degree an	gle:
	(A)	Try square	(B)	Steel rule
	(C)	Telescopic gauge	(D)	Micro meter
48.	In gas wel	ding there is excess of acetylene	the flame is	called:
	(A)	Carburizing flame	(B)	Oxidising flame
	(C)	Neutral flame	(D)	None of the above
49.	Which one	is suitable for spraying in small	garden and	l nursery:
	(A)	Engine powered sprayer	(B)	Knap sack sprayer
	(C)	Air plane sprayer	(D)	Hand atomizer
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50.	The man	ifacturer of fuel injection pump	):	
	(A)	MICO	(B)	HMT
	(C)	HAL	(D)	BHEL
51.	When the	vehicle is climbing up the hill	track the gear	box suplies?
	(A)	Low torque	(B)	Not torque
	(C)	Higher torque	(D)	Any of them
52.	For cuttir	ng external thread on bars which	ch tool is used	
	(A)	Taps	(B)	Reamer
	(C)	Dies	(D)	Drills
53.	A propelle	er shaft connects :		
	(A)	Engine with clutch	(B)	Clutch with gear box
	(C)	Gear box with differential	(D)	Gear box with universal joint
54.	In an mic The least		1 mm and the	ere is 100 division on the thimble scale.
	(A)	1/50 MM	(B)	1/100 MM
	(C)	1/10 MM	(D)	1 MM
55.	Which on	e is not a holding tool?		
	(A)	Bench vice	(B)	Ball peen hammer
	(C)	Pipe vice	(D)	C clamp
56.	Maintena system is		system comp	ared to that of battery- coil ignition
	(A)	Higher	(B)	Same
	(C)	Less	(D)	Not predictable
57.			area where cli	mate is dry and where the soil is rough
	and stony			
	(A)	Disk plough	(B)	Mould board plough
	(C)	Sweeps	(D)	Sub soiler
58.	Heat exch	ange between water and air in	a radiator tak	te place by :
	(A)	Conduction	(B)	Convention
	(C)	(A) and (B)	(D)	Radiation
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59.	The inclu	ded angle of centre punch is :		
	(A)	90 degree	(B)	30 degree
	(C)	120 degree	(D)	60 degree
60.	Which is	not a part of clutch system?		
	(A)	Sun gear	(B)	Pressure plate
	(C)	Clutch plate	(D)	Fly wheel
61.	Gear box	is installed between :		
	(A)	Engine and fly wheel	(B)	Fly wheel and clutch
	(C)	Clutch and differential	(D)	Clutch and propeller shaft
62.	Which is	not a plant protecting machine	ry?	
	(A)	Hand compression sprayer	(B)	Centre fugal pump
	(C)	Rocking sprayer	(D)	Power duster
63.	The prope	erty of a metal to make thin she	eet by hamme	ring:
	(A)	Ductility	(B)	Malleability
	(C)	Brittleness	(D)	Elasticity
64.	Brake lini	ings of a mechanical brake are	made of:	
	(A)	Brass	(B)	Copper
	(C)	Steel	(D)	Asbestos
65.	Inside mid	cro meter can be used to measu	re:	
	(A)	Diameter of a cylinder	(B)	Bore of an engine cylinder
	(C)	Thickness of plate	(D)	Clearance of a spark plug electrodes
66.	In air bra	ke system air compressor is dri	ven by:	
	(A)	Electric motor	(B)	Battery ,
	(C)	Hand operator	(D)	Engine itself
67.	In an IC e	ngine the Total volume of the c	ylinder / Clea	rance volume is called :
	(A)	Swept volume	(B)	Mean effective pressure
	(C)	Compression ratio	(D)	Brake horse power
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68.	For check is used:	ing specific gravity of electro l	light in a led ac	id cell which or	ne of the following device
	(A)	Multi meter	(B)	Hydro meter	
	(C)	Thermo meter	(D)	Ammeter	
69.	The start	ng motor in a tractor is :			
	(A)	Shunt motor	(B)	Series motor	
	(C)	Induction motor	(D)	Synchronous	motor
70.	In a centr	e fugal pump the volute casin	g is used to:		
	(A)	Increase the velocity of fluid	in the casing		
	(B)	Increase discharge			
	(C)	Increasing the pressure by d	lecreasing veloc	ity	
	(D)	Increasing suction head			
71.	The varia	tion in speed on account of var	riation in load i	n an engine is	controlled by:
	(A)	Timing gear	(B)	Cam shaft	
	(C)	Governor	(D)	Rocker arm	
72.	Which is	not the medium of heat transi	mission?		
	(A)	Conduction	(B)	Convention	
	(C)	Radiation	(D)	Vaporization	
73.	For check	ing spark plug electrode gap	you should used	1:	
	(A)	Micro meter	(B)	Feeler gage	
	(C)	Vernier calliper	(D)	Plate gage	
74.	The elem	ents that provide larger surface	ce area on cylin	der for air cool	ing is:
	(A)	Bellows	(B)	Jackets	
	(C)	Corrugations	(D)	Fins	
75.	Which pa	rt of engine that absorb energ	y from power s	troke and distr	ibute other strokes?
	(A)	Governor	(B)	Crank shaft	
	(C)	Fly wheel	(D)	Clutch	
76.	Firing or	ler of a four cylinder petrol en	igine is:		
	(A)	1-2-3-4	(B)	4-3-2-1	
	(C)	None of them	(D)	1-3-4-2	
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77.	What is that is in	the universal method of condition equilibrium with normal atmos	oning the gr	ain by removing moisture content level
	(A)		(B)	Threshing
	(C)	Drying	(D)	Milling
78.	The elem	ent that actuated by compressed	air in the b	rake chamber of an air brake system is :
	(A)	Piston	(B)	Spring
	(C)	Valve	(D)	Diaphragm
79.	In a carb	urettor throttle valve is used:		
	(A)	To control the amount of air fu	el mixture	
	(B)	For cold starting		
	(C)	To ignite the fuel		
	(D)	To maintain the level fuel in th	ne float chan	nber
80.	Wheel cyl	inder is located between :		
	(A)	Front and rear wheels	(B)	Master cylinder and wheels
	(C)	Anchored end of brake shoes	(D)	Free ends of brake shoes
81.	What kin	d of soil predominates in the sun	derbans area	a?
	(A)	Black soil	(B)	Alluvial soil
	(C)	Laterite soil	(D)	Red soil
82.	Which riv	er forms its Delta in Orissa?		
	(A)	Narmada	(B)	Godawari
	(C)	Krishna	(D)	Mahanadhi
83.	Where is	the maikal range situated?		
	(A)	Chattisgarh	(B)	Jharkand
	(C)	Orissa	(D)	Uthar Pradesh
84.	What is th	ne ideal temperature for the culti	vation of cot	ton?
	(A)	20°C to 25°C	(B)	15°C to 20°C
	(C)	20°C to 30°C	(D)	24°C to 35°C
85.	In which y	ear Parliament passed the Natio	onal Rural E	Imployment Guarantee Act :
	(A)	September 2005	(B)	September 2006
	(C)	September 2004	(D)	September 2007
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86.	'Let every	body study, Let every body gro	w' this slogar	is related to —	— project :
	(A)	RMSA	(B)	DPEP	
	(C)	SSA	(D)	NLM	
87.	Which sea	a shore in Kerala is Famous for	deposit of mi	neral soil?	
	(A)	Vizhinjam	(B)	Neendakara	
	(C)	Alappuzha	(D)	Chavara	
88.	Who desc	ribed the government of India A	ct, 1935 as a	new charter of bondage?	
	(A)	Mahatma Gandhi	(B)	Jawaharlal Nehru	
	(C)	Chittaranjandas	(D)	Motilal Nehru	
89.	The first	women chief minister of an Indi	an state?		
	(A)	Vijaya lakshmi Pandit	(B)	Sarojini Naidu	
	(C)	Sucheta Kripalani	(D)	Shrimathi Shano devi	
90.	'Gol Gum	baz' was situated in :			
	(A)	Amritsar	(B)	Bijapur	
	· (C)	Jaipur	(D)	Udaipur	
91.	The place	where chattambi swamikal atta	ained samadh	i?	
	(A)	Varkala	(B)	Pallana	
	(C)	Kannamoola	(D)	Panmana	
92.	Who orga	nised the 'Yachana yathra' in 19	931?		
	(A)	V.T. Bhattathiripad	(B)	Ayyankali	
	(C)	Pandit Karuppan	(D)	Sree Narayana Guru	
93.	'Prathyak	sha Raksha Daivasabha' was st	arted by?		
	(A)	Thycaud Ayya	(B)	Blessed Kariakose Elias	
	(C)	Vaikunda Swamy	(D)	Kumara Guru	
94.	Darsanar	nala' is written by :			
	(A)	V.T. Bhattathiri Pad	(B)	Sree Narayana Guru	
	(C)	Kumaranassan	(D)	Vaikunda Swamy	
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95.	Who publ	ished the Journal 'Abhinava Keralan	n'?	
	(A)	Vakkam moulari	(B)	V.T. Bhattathiripad
	(C)	Vagbhatananda	(D)	Pandit Karuppan
96.	Who got t	he 27th 'Moorthidevi' Award?		
	(A)	C. Radha Krishnan	(B)	Akkitham
	(C)	Sugatha Kumari	(D)	Sachidanandhan
97.	Who has	become the first speaker of Telangan	a Legisla	ative assembly?
	(A)	Ashok Gajapathiraju	(B)	Krishan Pal Gurjar
	(C)	Srikonda Madhusudhana Chary	(D)	G.M. Sindheswara
98.	Who won	the French open mens single 2014?		
	(A)	Rafeal Nadal	(B)	Roger Federer
	(C)	Novak Djokovik	(D)	J. Benneteau
99.	Which Inc	dian film star's autobiography is "The	substar	nce and the shadow'?
	(A)	Anupam Kher	(B)	Rajesh Khanna
	(C)	Sanjay Dath	(D)	Dilip Kumar
100.		largest yellow star spotted by astroper than the sun :	onomers	recently in our galaxy which is 1,300
	(A)	HR 5271 A	(B)	HR 5171 A
	(C)	HR 5371 A	(D)	HR 5071 A