# 006/2020

<b>Question Booklet</b>
Alpha Code



#### Question Booklet Serial Number

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Total No. of Questions: 100 Time: 75 Minutes

Maximum: 100 Marks

#### INSTRUCTIONS TO CANDIDATES

- 1. The question paper will be given in the form of a Question Booklet. There will be four versions of question booklets with question booklet alpha code viz. A, B, C & D.
- 2. The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the question booklet.
- 3. The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall
- 4. If you get a question booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator IMMEDIATELY.
- 5. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your question booklet is un-numbered, please get it replaced by new question booklet with same alpha code.
- 6. The question booklet will be sealed at the middle of the right margin. Candidate should not open the question booklet, until the indication is given to start answering.
- 7. Immediately after the commencement of the examination, the candidate should check that the question booklet supplied to him contains all the 100 questions in serial order. The question booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
- 8. Blank sheets of paper is attached to the question booklet. These may be used for rough work.
- 9. Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.
- 10. Each question is provided with four choices (A), (B), (C) and (D) having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball-Point Pen in the OMR Answer Sheet.
- 11. Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.
- 12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
- 13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

## **Total Marks: 100 Marks**

Time: 1 hour and 15 minutes

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	(C)	tempering	(D)	normalizing
	(A)	hardening	(B)	case hardening
7.	cyaniding	and nitriding are two methods of _		<u>_</u> .
	(D)	it has an adjustable base.		
	(C)	it is equipped with a number of ex	tensio	on rods
	(B)	it has lengthy sleeve	_	
	(A)	it has lengthy spindle		
5.	•	icrometer can be used to measure v	vide ra	inge of sizes because
	(C)	Low carbon steel	(D)	Bronze
	(A)	Tool steel	(B)	Mild steel
5.	The jaw pl	lates of a bench vice are made of		
	(C)	350 mm	(D)	325 mm
	(A)	275mm	(B)	375 mm
<b>1</b> .	The length	of the hammer handle for a 500 gr	n ham	
	( )	1	\ <i>\</i>	
	(C)	square head	(D)	centre head
•	(A)	stock	(B)	protractor head
3.	Which of	the following is not the part of a co	mbina	ation set ?
	(C)	fuel, light and nitrogen	(D)	fuel, heat and oxygen
	(A)	fuel, light and oxygen	(B)	fuel, heat and carbon dioxide
2.	Fire is a co	ombination of		
	(D)	using safety equipment		
	(C) (D)	observing safety rules related to jousing safety equipment	oo, ma	chine and work piece
	(B)	doing work in one's own way	sh	ahina and woult nigas
	(A)	doing work in ancient way		
1.		vay of avoiding accident is by		
1	The best w	you of avoiding agoidant is by		

	(A)	Scale size	(B)	Actual size
	(C)	Specified size	(D)	Nominal size
9.	Ratchet sto	op in the micrometer helps to		
	(A)	lock the spindle	(B)	adjust zero error
	(C)	hold the work piece	(D)	control the pressure
10.	The drill s	leeves or sockets are available v	with morse	e taper and their number range M T-1
	to M T-6 v	which one of the following drill	sizes refe	rs to M T-4?
	(A)	drills above 14 mm up to 23 m	nm	
	(B)	drills above 23 mm up to 31.7	5 mm	
	(C)	drills above 31.75 mm up to 5	0.50 mm	
	(D)	drills above 50.50 mm to 76 m	nm	
11.	Both edge	s of flat bastard file have		
	(A)	no cut	(B)	wavy cut teeth
	(C)	single cut teeth	(D)	double cut teeth
12.	The distan	ce a drill advances into the job	in one con	nplete revolution is known as
	(A)	rpm	(B)	machine speed
	(C)	cutting speed	(D)	feed
13.	Pure semi	conductors are known as	·	
	(A)	extrinsic	(B)	N Type
	(C)	P type	(D)	intrinsic
14.	A given co	omponent cracked after heat trea	atment. W	hat can be the possible reason?
	(A)	It was heated for long time	·	
	(B)	It was not properly cleaned be	fore heating	ng
	(C)	It was slowly cooled in air	·	
	(D)	It was suddenly cooled in brin	e	·
15.	Kirchhoff	s law is not applicable to		
	(A)	distributed parameters	(B)	passive elements
	(C)	Non-linear resistance	(D)	A.C. circuits
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A		5		006/2020 [P.T.O.]
	(C)	Deviation based system	(D)	BIS system of fit and limits
	(A)	Hole basis system	(B)	Shaft basis system
	size variab	-		1 constant that hold
24.	Which sys	tem as per Indian standard in fits	and lim	nit permit shaft size constant and hole
	(C)	Gas welding	(D)	Thermit welding
	(A)	Arc welding	(B)	forge welding
23.	Which one	e is example of plastic welding?		
	(0)	steer ruie	(D)	vermer camper
	(A) (C)	SWG steel rule	(B)	radius gauge vernier caliper
22.	To measur (A)	re the thickness of sheet		
22	То массата	on the thickness of sheet	ia waa 1	
	(C)	high voltage & low current	(D)	low voltage and low current
	(A)	high voltage & high current	(B)	low voltage & high current
21.	The arc in	electric arc welding is a discharge	of	·
	(C)	slag inclusion	(D)	porosity
	(A)	under cut	(B)	cracks
20.	A dye pen	etration test is done to find	·	
	(C)	AND, NAND, NOT	(D)	XOR, OR, NOR
	` '	AND, OR, NOT	(B)	AND, XOR, NOR
19.	Basic gate			
	(C)	water heater	(D)	alternators
	(A)	<u>.</u>	(B)	fluorescent tube circuit
18.	•	se is used for the protection of		
	(C)	Moulded Case Circuit Breaker	(D)	Main Controlled Circuit Breaker
	(A)	Mounted Case Circuit Breaker	(B)	Metal Case Circuit Breaker
17.	MCCB sta	ands for		
	(C)	cast iron core	(D)	powdered iron core
	(A)	iron core	(B)	air core
16.		the following inductor will have the		•

<b>25.</b>	While installing new piston rings, the ring end gap is tested after placing the ring in				
	(A)	Piston	(B)	In a vice	
	(C)	Cylinder bore	(D)	In special fixture	
26.	In semi flo	pating piston pin –			
	(A)	Pin free to move in boss and locke	ed with	n connecting rod	
	(B)	Pin locked with boss and connecting rod is free			
	(C)	Both connecting rod and pin are fi	ee to	move	
	(D)	Set screw provided on boss and co	nnect	ing rod bolted with pin	
27.	In turbo ch	narged system, an inter cooler is pro	vided	to	
	(A)	Cool the engine	(B)	Cool the exhaust gas	
	(C)	Cool the intake gas	(D)	All of these	
28.	In modern	common rail injection system, the	comm	on rail stores the diesel fuel with high	
	pressure an	cound			
	(A)	100 bar	(B)	500 bar	
	(C)	1500 bar	(D)	10000 bar	
29.	A catalytic	convertor in the emission control s	ystem	1	
	(A)	Collect the unburned gases and re-	circula	ates to the engine	
	(B)	Convert the toxic gases to non-tox	ic		
	(C)	Store the toxic gases and should d	ispose	elater	
	(D)	Allows reaching atmosphere			
30.	The mecha	anical power of a tractor can use to	drive	an air compressor. The drive is taken	
	out from				
	(A)	PTO shaft	(B)	Gear box output shaft	
	(C)	Fly wheel	(D)	Axle shaft	
31.	The rear w	heel track of a tractor can be adjust	ed by		
	(A)	Altering the length of axle shaft	(B)	Altering length of axle casing	
	(C)	Altering the wheels	(D)	Altering the position of wheel disc	
32.	Differentia	al lock is the mechanism provided to	lock		
	(A)	The axle halves each other	(B)	The gear box and differential	
	(C)	Axle and wheel	(D)	Propeller and differential	

<i>33.</i>	The defect	occurred in the hydraulic b	rake system w	nen air trapped in the fluid lines
	(A)	Hard brake	(B)	Spongy brake
	(C)	Brake dragging	(D)	Noise while braking
34.	The backw	vard tilt of king pin to the ve	ertical is called	1
	(A)	King pin inclination	(B)	King pin tilt
	(C)	Caster angle	(D)	Camber angle
35.	In the air b	orake system, the brake can	be adjusted at	
	(A)	Brake shoe	(B)	Brake chamber
	(C)	Brake valve	(D)	Slack adjuster
36.	In the disc	of a friction clutch, the tors	ional vibration	n is absorbed by a series of heavy
	(A)	Cushion bolts	(B)	Coil springs
	(C)	Waved pads	(D)	Friction pads
37.	The purpor	se of the caster angle on an	automobile is	to
	(A)	Prevent tyre wear	(B)	Better tyre-road contact
	(C)	Compensate tyre wear	(D)	Maintain directional control
38.	The diame	eter of crank shaft main bea	aring shell is	always more than the diameter of its
	parent bore	e and is called		
	(A)	Spread	(B)	Crush
	(C)	Lash	(D)	Lift
39.	Why the b	unds are formed using bund	former in the	irrigated land?
	(A)	To conserve soil	(B)	To prevent run off
	(C)	To increase moisture	(D)	To plant or sow seeds
40.	An engine	cylinder with swept volum	e of 100 cm <sup>3</sup>	and clearance volume of 10 cm <sup>3</sup> . The
	compression	on ratio is		
	(A)	1:11	(B)	11:1
	(C)	10:1	(D)	1:10
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CONTRACTOR ASSESSMENT	(С)	Stuck thermostat	(D)	Stuck pressure valve
	(A)	Lack of coolant	(B)	Overheated coolant
48.	The botton	n hose of radiator will collapse		
	(D)	20 minut cost		
	(D)	Low initial cost		
	(C)	More fuel efficiency	101 valve (	operation
	(A) (B)	Less mechanical components	-	
4/.	The advan (A)	tage of engine with hydraulic v Valve clearance adjustment is		
47.	The adver	tage of engine with hydroulic	valve lifter	ic
	(C)	Incorrect valve clearance	(D)	Loose or worn piston pin
	(A)	Piston slap	(B)	Sprocket knock
46.	A light do	uble knock during idle can resu	ılt from	
	(C)	Detective fan belt	(D)	Defective battery
	(A)	Defective starting motor	(B)	Defective carburetor
45.	Irregular	missing in different cylinders n	nay result f	rom
	(D)	For easy installation of spark	plug	
	(C)	Increase the vacuum		
	(B)	See whether compression pre	essure incre	rases
	(A)	Lubricate the cylinders and p	istons	
	through th	e spark plug hole is to		
44.	While mal	king a compression test, the pu	urpose of s	quirting a small amount of engine oil
	(C)	By pass valve	(D)	Pressure relief valve
	(A)	In pressure gauge	(B)	Main bearing clearance
43.	The lubric	ating oil pressure of engine is a	adjusted at	
	(C)	Two wheeled tractor	(D)	Four wheeled tractor
	(A)	Bulldozer	(B)	Excavator
42.	Steering c	lutches are employed for which	n type of m	achinery?
	(C)	Cubic centimetre	(D)	Pounds inch
	(A)	Kilogram metre	(B)	Square metre
41.	•	splacement is measured in		

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	(C)	Disc plough	` ′	Bose plough		
	(A)	Mould board plough	(B)	·		
57.		ploughs are preferred in areas w	ith dr	y climate and rough and stony soils.		
	(C)	Gauge wheel	(D)	Weed hook		
	(A)	Coulter	(B)	Jointer		
<b>56.</b>		<u> </u>		ed to cut trash and prevent clogging is		
	(C)	Sod	(D)	High speed		
	(A)	Stubble	(B)	Slat		
55.	A	A type mould board works in light sticky soils.				
	(C)	Pitman and shoe length	(D)	Registration and alignment		
	(A)	•	` /	Alignment and speed		
54.		and are the main adjustn				
			( )			
	(C)	Semi-circular	(D)	Parabolic		
·	(A)	Trapezoidal	(B)			
53.	An indigenous plough cuts the soil in a section.					
	(C)	Hill dropping	(D)	All of these		
	(A)	<b>C</b>	(B)	1 0		
	and unifor	m is known as				
52.	The method	od of planting in which the row to	o row	and plant to plant distances are equal		
	· · · · · · · · · · · · · · · · · · ·		· ,			
	(C)	Shoe	(D)	Beam		
	(A)	Handle	(B)	Share		
51.	The long called	wooden piece connecting main b	ody of	an indigenous plough to its yoke is		
	(C)	Trailed implement	(D)	Fixed implement		
	(A)	1	(B)	•		
50.		implement can be quickly attach				
	(-)		(-)	8		
	(C)	Separation	(D)	Grading		
.,,	(A)	Cleaning	(B)	Winnowing		
<b>49</b> .	The proces	ss of separating quality grain from	chaff i	s called		

[P.T.O.]

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	(C)	Bulk metering	(D)	None of these
	(A)	Precision planting	(B)	Big sized seeds
66.	Fluted roll	er metering mechanism is suit	able for	
	(0)	20 degrees	(D)	00 4081003
	(A) (C)	20 degrees	(D)	60 degrees
us.	(A)	40 degrees	(B)	30 degrees
65.	The angle	at which the cutting blade of a	a chical play	igh enters the soil is
	(C)	60 - 70  cm	(D)	More than 100 cm
	(A)		(B)	15 - 30  cm
64.		iler ploughs up to a depth of		
	` /		` ,	
	(C)	Only (III)	(D)	• ` '
	(A)		(B)	Only (II)
	•			on type to throw required soil
63.	The adius	stments made on cultivator	shovels are	e (I) setting for proper row width
	(C)	5 - 10  cm	(D)	10 - 20  cm
	( )	10 – 15 cm	(B)	15 – 25 cm
62.	-	ng in a disc harrow is	·— ·	4.5
	(C)	Four	(D)	Six
	(A)	Two	(B)	Three
61.	Tandem d	isc harrows have ga	ngs.	
	(C)	Share	(D)	Landside
	(A) (C)	Share	(B) (D)	Landside
60.		operated mould board plough,  Mould board	depth adjus (B)	Rear furrow wheel
<b>(</b> 0	T	. 1 111 1 1 1	1 41 11	1
	(C)	(I), (II) and (III)	(D)	None of these
	(A)	Only (I)	(B)	Only (II)
	tilt angle,	(III) Adding weights. State wh	ich is true.	
59.	In a disc p	lough, penetration can be incr	eased by (I)	Increasing disc angle, (II) Increasing
	(C)	Adjacent plougning	(D)	Centre to side plougning
	(A) (C)	1 6 6	(B) (D)	Cross ploughing Centre to side ploughing
	so on is ca		(D)	C 1 1:
58.			ona Turrow	is made adjacent to the first one and
<b>58.</b>	The methor	od of ploughing where the sec	ond furrow	is made adjacent to the first one and

<b>67.</b>		are provided in seed drills to	help in p	placing seeds at uniform and desired			
	depth and	spacing					
	(A)	Seed tubes	(B)	Furrow openers			
	(C)	Seed metering mechanism	(D)	None of these			
68.	Mould board is generally made of						
	(A)	Soft centre steel	(B)	High carbon steel			
	(C)	Mild steel	(D)	Iron			
69.	Checking	the application rate and patter	n of disp	persal of agricultural materials by a			
	machine is	s called					
	(A)	Spacing	(B)	Spraying patterns			
	(C)	Calibration	(D)	None of these			
70.	Weight pe	r disc of a tractor drawn disc plo	ugh rang	es from			
	(A)	180 - 540  kg	(B)	25-30  kg			
	(C)	250 - 300  kg	(D)	50 - 100  kg			
71.	FarmTrac	is the brand name of tractor man	ufactured	l by			
	(A)	Escorts Ltd.	(B)	Force Motors Ltd.			
	(C)	HMT Ltd.	(D)	Mahindra and Mahindra Ltd.			
72.	In a tubular maize sheller, separation occurs due to						
	(A)	Impact	(B)	Shear			
	(C)	Oscillation	(D)	Beating			
73.	An accept	able uniformity coefficient for sp	orinkler in	rigation is%.			
	(A)	65 - 85	(B)	100			
	(C)	20 - 30	(D)	More than 85			
74.	As per Ind	lian Standards, the Test Code for	power ti	llers is			
	(A)	IS: 9935	(B)	IS: 13539			
	(C)	IS: 5994	(D)	IS: 9253			
75.		is a precision levelling equipme	ent for fir	ne levelling of agricultural fields with			
	desired slo	ppe.					
	(A)	Dozer	(B)	Laser guided leveler			
	(C)	Scraper	(D)	Land plane			
CONTRODUCIAL CONFIDENT	TILL COMPIDENTIAL COMPIDENTIAL SEMPERENTIAL COMPIDENTIAL COMPI	отиц, замлавлиц, сомгаелиц, семпаелиц, замлавлиц, сомгаелиц, сомгаелиц, сампаелиц, сомгаелиц, сомгаелиц	итил овигаемти; сомпректы, сомпректы, сак	повниц сомгаети, сомгаети, симаети, сомгаети,			

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COARDONIAL AMERICA	(С)	Cone clutch	(D)	None of these		
	(A)	Dog clutch	(B)	Fluid coupling		
83.		is mostly used in power till	lers			
		contro of registration	(D)	centre of power		
	(A) (C)	Centre of resistance	(D)	Centre of power		
	(A)	Centre of gravity	(B)	Centre of pull		
04.	operated p		ine nonzon	and vertical forces act in a tractor		
82.	The noint	at which the resultant of all	the horizon	tal and vertical forces act in a tractor		
	(C)	Radial flow	(D)	None of these		
	(A)	Positive displacement	(B)	Centrifugal		
81.		type of pumps are used in s	sprayers to d	levelop the required pressure.		
	(C)	8 – 10 mm	(D)	7 – 11 mm		
		3-5  mm	(B)	5 – 6 mm		
80.		The vertical suction of a walking type mould board plough is				
	(C)	Transplanter	(D)	Power sprayer		
	(A)	Tractor	(B)	Power tiller		
79.	ER90/KM	B200 is a model of				
	(C)	Blower loss	(D)	Visible loss		
	(A)	Cylinder loss	(B)	Sieve loss		
	in a thresh	er by weight is called				
<b>78.</b>	The percei	ntage of unthreshed grains fro	om all outlet	ts with respect to the total grain input		
	(C)	Head land	(D)	None of these		
	(A)	Dead furrow	(B)	Back furrow		
	to side is c	ealled				
77.	The raised	ridge left at the centre of the	strip of land	I, when ploughing is done from centre		
	(C)	2, 4 – D	(D)	All of these		
	(A)	Glyphosate	(B)	Glyphosinate Ammonium		
<b>76.</b>	Which of t	the following is a selective her	rbicide?			

84.	The power requirement of a self-propelled combine harvester is					
	(A)	8 hp per metre width of cut	(B)	10 hp per metre width of cut		
	(C)	12 hp per metre width of cut	(D)	6 hp per metre width of cut		
85.	The dimensional homogeneity coefficient of a spray is given by the ratio					
	(A)	VMD/2	(B)	NMD/2		
	(C)	VMD/NMD	(D)	None of these		
86.	The angle made by the cutter bar to the direction of motion in a mower is					
	(A)	20°	(B)	88°		
	(C)	80°	(D)	25°		
87.	Spray nozzle flow rate is a function of					
	(A)	Nozzle type	(B)	Orifice size		
	(C)	Pressure	(D)	All of these		
88.	The volume of spray in low volume sprayers ranges from					
	(A)	5 – 200 I/ha	(B)	5 – 400 I/ha		
	(C)	50 – 200 I/ha	(D)	50 – 400 I/ha		
89.	In a laser leveler the received signal is converted to cut and fill adjustments of the scraper					
	automatically by a					
	(A)	Two way hydraulic valve	(B)	One way hydraulic valve		
	(C)	Sensor	(D)	None of these		
90.	The commonly used metering mechanism in potato planters is					
	(A)	Cell feed	(B)	Picker wheel		
	(C)	Gravity feed	(D)	Cup feed		
91.	is the ratio of peripheral velocity to speed of travel in a combine harvester.					
	(A)	Reel index	(B)	Reel capacity		
	(C)	Speed index	(D)	Feed index		
92.	The type of cultivator in which the tynes are lifted when they hit an obstacle is					
	(A)	Spike tooth cultivator	(B)	Spring tyne cultivator		
	(C)	Peg tooth cultivator	(D)	All of these		
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	(C)	Gunnel of share	(D)	Point of share		
	(A)	Frog	(B)	Wing of share		
	wall is					
100.	The part of a mould board plough that supports the plough bottom against the furrow					
	(C)	Throat clearance	(D)	Diameter		
	(A)	C	(B)	Tilt angle		
99.	The of a disc plough affects the pulverization and throw of furrow slice.					
	(C)	$5-10 \text{ kg/cm}^2$	(D)	$10-15 \text{ kg/cm}^2$		
		$1 - 7 \text{ kg/cm}^2$		$1 - 10 \text{ kg/cm}^2$		
98.	-	pressure of a hand open		1 101 / 2		
	, ,	_	` /			
	(C)	Gang	(D)	Scraper		
<i>71</i> •	(A)		(B)	Spool		
97.	is useed to provide spacing between discs of a disc harrow.					
	(C)	Casing	(D)	None of these		
	(A)	Suction box	(B)	Stuffing box		
	leakage is called					
96.	The portion of the pump casing through which pump shaft extends, with a seal to prevent					
	(C)	Winnowing	(D)	None of these		
	(A)	1 0	(B)	Harvesting		
95.	The process of detaching grains from earheads is known as					
	(C)	2	(D)	3		
	(A)	4	(B)	1		
94.	The number of cutting blades in a manually operated flywheel type chaff cutter is					
	(C)	Rocker sprayer	(D)	All of these		
	(A)	Knapsack sprayer	(B)	Hand compression		
	crops is					
93.	A manual	ly operated sprayer that	at is also used for	spraying in orchards and plantation		

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