008/2022

Question Booklet Alpha Code

Question Booklet Serial Number

Total Number of Questions : 100

Time : 75 Minutes

Maximum Marks : 100

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. A blank sheet of paper is attached to the question booklet. This 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.



008/2022

1.	The	unit of solid ang	le is :						
	(A)	radian			(B)	stera	adian		
	(C)	degree			(D)	none	e of the above		
2.	Wha	at is the tempera	ture o	co-efficient	value	of al	uminium at 20°	celciu	s ?
	(A)	40.3×10^{-4}	(B)	40.3×10^{-1}	- 3	(C)	40.3×10^{-2}	(D)	40.3×10^{-5}
3.		ting point of copp							
	(A)	1083°C	(B)	1183°C		(C)	983°C	(D)	1000°C
	0	, .	,						
4.		ampere-hour is	-	to :		2200			
	(A) (C)	36000 coulombs 360 coulombs	3		(B) (D)) coulombs oulombs		
5.	The	shape of warnin	g sig	n is	<u>.</u> .				
	(A)	circular	(B)	square		(C)	triangular	(D)	rectangular
6.	Unit	t of M.M.F. is :							
	(A)	Maxwell	(B)	Lambda		(C)	Joule	(D)	Ampere turns
7.	Wha	it is the permeab		of bismuth	?				
	(A)	0.00099988	(B)	0.99988		(C)	1.000999881	(D)	1.99988
0	7 11	1.0							
8.		lifting power of a $\mathbf{D}^{2}\mathbf{A}/\mathbf{O}$		-		(\mathbf{O})	D2A/4		A 2D / A
	(A)	$B^2A/2\mu_0$	(Б)	$A^{-}D/2\mu_{0}$		(C)	$B^2A/4\mu_0$	(D)	Α-Β/4μ ₀
9.	Whi	ch type of capaci	tors a	are used in	RF c	ounlir	ng circuits ?		
	(A)	tantalum		are used in	(B)	-	trolytic		
	(C)	monolithic			(D)		alized polypropy	vlene	
	(~)				(-)		r r p opj	,	
10.	The	voltage of a simp	ple vo	ltaic cell is	:				
	(A)	$1.5 \mathrm{V}$	(B)	$1.28\mathrm{V}$		(C)	$1.08~\mathrm{V}$	(D)	$1.4\mathrm{V}$

A

11.	The speed of electricity is : (A) 2,97,842 km/s (C) 2,97,842 km/hr						,842 km/m e of the above			
12.	What is the resistance of the induction at 0.8 P.F. ?					takes	5 A current ac	cross 24	0 V, 50 Hz s	supply
	(A)	48 W	(B)	$42.5 \mathrm{W}$		(C)	38.4 W	(D)	26.6 W	
13.		3 phase system ulate the reactiv			ower	is 4	kW and the aj	pparent	power is 5	ó kVA,
	(A)	1 kVAR	(B)	2 kVAR		(C)	3 kVAR	(D)	4 kVAR	
14.	Wha	at is the di-electr		-	V/m.n			С?		
	(A)	40	(B)	42		(C)	44	(D)	46	
15.		wattmeter meth	nod is	used to m			-		load.	
	(A) (C)	resistive load un-balanced loa	he		(B) (D)		nced load nced and un-b	alanced	load	
	(0)	un-baraneeu 108	au		(D)	bala	necu anu un-b	aianeeu	1044	
16 .		nagnetize a steel	is di	fficult beca						
	(A) (C)	high density high permeabil	itv		(B) (D)	-	retentivity permeability			
	(0)	ingn permeasi	109		(D)	10 W	permeasiney			
17.	What circu	at is the effect if out ?	one ce	ell is conne	cted w	vith re	everse polarity	in a pa	rallel combi	nation
		voltage became			(B) (D)		me open circu		.,	
	(C) will get short circuited					no e	ffect will funct	tion nor	mally	
18.	The	depolarizer is us	sed in	dry cell is	:					
	(A)	MNO_2			(B)	MN	0			
	(C)	mercury sulpha	ate		(D)	NH ₃				
19.		batteries each	-		-					
	conr (A)	nected in parallel 0.33 A	(B)	ipply a load 2 A	1 of 2	ohm (C)	the current suj 0.8 A		y the batte: 1 A	ry 1s :
	. ,									
20.	A 24 (A)	4 ohm and 8 ohm 32 ohm	resis (B)	stors are in 24 ohm	paral	llel ha (C)	ive a combined 12 ohm	resista (D)	nce of : 6 ohm	
008/	2022				4					А

21.		control force en tion is :	nploy	ed in an i	ndica	ting i	nstrument, wl	nich ca	n be kept in any		
	(A) gravity control				(B)	eddy	y current contr	ol			
	(C)	fluid friction co			(D)	spring control					
22.		he meter consta lution, the energ				e met	er is 1500 rev	volutio	n/k.W.H., in one		
	(A) 40 watt-minutes				(B)	60 v	vatt-minutes				
	(C) 100 watt-minutes				(D)	50 watt-minutes					
23.	Max	well-Wein bridge	e is us	sed for mea	asurir	ıg:					
	(A)	capacitance	(B)	dielectric		-	inductance	(D)	phase angle		
24.	The is :	line voltage of a	a delt	a-connected	d thre	ee-pha	ase circuit is 4	15 V. 7	The phase voltage		
	(A)	$220 \mathrm{V}$	(B)	230 V		(C)	24 <mark>0 V</mark>	(D)	415 V		
25.		3 phase star con resistances is re						-	is 50 ohm if one of wer will be :		
	(A)	200 W	(B)	400 W		(C)	800 W	(D)	600 W		
26.	In F	lemin <mark>gs le</mark> ft han	ıd rule	e, forefinge	r indi	cates	: \ `				
	(A)	Direction of su	pply o	of voltage	(B)	Mot	ion of the cond	uctor			
	(C)	Direction of fie	eld		(D)	Dire	ection of curren	nt flow			
27.	A cı	urrent transform	er stej	p up :							
	(A)	Voltage	(B)	Current		(C)	Power	(D)	Frequency		
28.	Hur	nting occurs in :									
	(A)	Transformer			(B)	Indu	uction motor				
	(C)	Synchronous n	notor		(D)	D.C. motor					
29.	The	system earthing	is do	ne at :							
	(A)	Domestic wirin	ng		(B)	God	own wiring				
	(C)	Generating sta	tion		(D)	Hou	se wiring				
Α					5				008/2022		

30.	An e	example of cold	cathod	le lamp is :							
	(A) Neon lamp			(B)	Mercury vapour lamp						
	(C)	Fluorescent tu	ıbe		(D)	Inca	ndescent lamp				
31.	Deci	mal equivalent	of Hez	kadecimal r	umbe	er 'D'	is :				
	(A)	14	(B)	13		(C)	12	(D)	10		
32.	Terr	ninals of a IGB	Г are :								
	(A)	Base, Collecto	r, Em	itter	(B)	Emi	tter, Collector,	Gate			
	(C)	Base 1, Base 2	, Emit	tter	(D)	Drai	in, Source, Gat	e			
33.	The	capacity of Tra	nsform	iers are rat	ed by	its :					
	(A) True power				(B)	Actu	al power				
	(C)	Apparent pow	er		(D)	Read	ctive power				
34.	Whi	ch circuits quicl	x resp	onse tvpe d	iazed	fuses	are used ?				
	(A) Motor circuits				(B)	Heating circuits					
	(C)	Lightning circ	uits		(D)		tronics circuits	3			
35.	How	many number	of bru	shes are us	ed in		wound DC shu	unt gen	erator?		
	(A)	1	(B)	2		(C)	3	(D)	6		
36.	A JI	FET is a	d	riven devic	e.						
		Voltage	(B)			(C)	Frequency	(D)	Power		
37.	The	radix of decima	1 num	bar system	ie ·						
97.	(A)	1	(B)	2	15.	(C)	10	(D)	0		
38.	As p	er BIS the shur	nt field	l winding te	ermin		a DC machine	is mar	·ked :		
	(A)	B1 & B2	(B)	E1 & E2		(C)	F1 & F2	(D)	D1 & D2		
39.	The	V-curve of a sy	nchror	nous motor	is the	e relat	tion between :				
	(A)	Applied voltag	e and	back emf	(B)	Back	x emf and arma	ature c	urrent		
	(C)	Back emf and	power	factor	(D)	Arm	ature current	& rotor	r field current		
008/	2022				6						

A

40.									
	(A) (C)	Auto transform Power transfor			(B) (D)		ation transform rent transforme		
	(0)	Tower transfor	mer		(D)	Our		I.	
41.	Binary value of 0101 is equivalent to decimal number :								
	(A)	5	(B)	7		(C)	4	(D)	3
42.	An S	SCR has	s	emiconduct	tor lag	yers.			
	(A)	1	(B)	2		(C)	4	(D)	3
43.	Ripp	ole frequency of t	full w	ave bridge	rectif	ier is	:		
	(A)	F input	(B)					(D)	$\frac{1}{2}$ F input
									/ 4
44.	Whi mote		beed	control is ı	used t	co obt	ain above norn	nal sp	eed in DC series
	(A)	Field taping m			(B)		age <mark>contro</mark> l met		
	(C)	Field diverter	meth	od	(D)	Arm	ature control m	iethod	
45.	Whi	ch one is a Unive	ersal	gate ?					
	(A)	OR	(B)	NOR		(C)	NOT	(D)	AND
46.	A U	JT contains		_ PN junct	tions.				
	(A)	1	(B)	2		(C)	3	(D)	4
47.	The	insulation resist	ance	of a DC mo	otor is	meas	sured in :		
	(A)	Mega volts		Mega wat				(D)	Kilo ohms
40	What	ch test is used to	- ale a	ala sub ath an	the e			1 : 1:.	
48.	(A)	Continuity test		ck whether	(B)		n circuit test	1 111 111	e wire or not :
	(C)	Ground test			(D)	-	rity test		
49.	Whi	ch electrical acce	acori	og ig ugod f	for tal	zina a	upply from a la	mn ha	ldor 2
40.	(A)	Ceiling rose	:55011	es is useu i	(B)	-	n plug top	mp ne	Juer :
	(C)	Adaptor			(D)	Two	pin plug top		
50.	An 4	example of invert	or ga	te is ·					
	(A)	NAND	(B)	OR		(C)	NOT	(D)	AND

A

008/2022 {P.T.O.}

	(1)		ים. (ח)	The second supply							
	(A)	To avoid bend	(B)	To avoid crack							
	(C)	To avoid leak	(D)	To make strengthless							
52.	Whi	ch part in the internal gea	r pump act	as seal ?							
	(A)	Gears	(B)	Gasket							
	(C)	Sealing ring	(D)	Cresent shaped spacer							
53.	Whi	Which rivet used in heavy structural work ?									
	(A)	Pan head rivet	(B)	Snap head rivet							
	(C)	Counter sunk rivet	(D)	Conical head rivet							
54.	Which washers are commonly used for structural fabrication work ?										
	(A)	Flat washers	(B)	Punched washers							
	(C)	Tab washer	(D)	Toothed lock washer							
	W71-:	-h									
55.		ch metal is very soft and h									
	(A)	Lead (B) Bla	ck iron	(C) Aluminium (D) Copper sheet							
56.	Which hammer is suitable for riveting ?										
56.	whi	ch hammer is suitable for	riveting ?								
56.	(A)	ch hammer is suitable for Plastic hammer	riveting ? (B)	Ball pein hammer							
56.				Ball pein hammer Straight pein hammer							
	(A) (C)	Plastic hammer	(B) (D)	Straight pein hammer							
	(A) (C)	Plastic hammer Cross pein hammer ch key is used for easy fixi	(B) (D)	Straight pein hammer							
	(A) (C) Whi	Plastic hammer Cross pein hammer ch key is used for easy fixi	(B) (D) ng and rem	Straight pein hammer							
56. 57. 58.	 (A) (C) Whit (A) (C) 	Plastic hammer Cross pein hammer ch key is used for easy fixi Feather key Hollow saddle key	(B) (D) ang and rem (B) (D)	Straight pein hammer oving ? Gib-head key Circular taper key							
57.	 (A) (C) Whit (A) (C) 	Plastic hammer Cross pein hammer ch key is used for easy fixi Feather key Hollow saddle key	(B) (D) ang and rem (B) (D)	Straight pein hammer oving ? Gib-head key Circular taper key							
57.	 (A) (C) Whi (A) (C) Whi 	Plastic hammer Cross pein hammer ch key is used for easy fixi Feather key Hollow saddle key ch type of nut required alig	(B) (D) ing and rem (B) (D) gning the ax	Straight pein hammer oving ? Gib-head key Circular taper key the shaft hole and slot of the nut for locking							
57. 58.	 (A) (C) Whi (A) (C) Whi (A) (C) 	Plastic hammer Cross pein hammer ch key is used for easy fixi Feather key Hollow saddle key ch type of nut required alig Castle nut	(B) (D) ang and rem (B) (D) gning the ax (B) (D)	Straight pein hammer oving ? Gib-head key Circular taper key de shaft hole and slot of the nut for locking Chuck nut Self lock nut							
57.	 (A) (C) Whi (A) (C) Whi (A) (C) 	Plastic hammer Cross pein hammer ch key is used for easy fixit Feather key Hollow saddle key ch type of nut required alig Castle nut Thumb nut	(B) (D) ang and rem (B) (D) gning the ax (B) (D) hydraulic pu	Straight pein hammer oving ? Gib-head key Circular taper key de shaft hole and slot of the nut for locking Chuck nut Self lock nut							
57. 58.	 (A) (C) Whi (A) (C) Whi (A) (C) Whi 	Plastic hammer Cross pein hammer ch key is used for easy fixi Feather key Hollow saddle key ch type of nut required alig Castle nut Thumb nut	(B) (D) ang and rem (B) (D) gning the ax (B) (D) hydraulic putulic energy	Straight pein hammer oving ? Gib-head key Circular taper key de shaft hole and slot of the nut for locking Chuck nut Self lock nut							
57. 58.	 (A) (C) Whi (A) (C) Whi (A) (C) Whi (A) (A) 	Plastic hammer Cross pein hammer ch key is used for easy fixit Feather key Hollow saddle key ch type of nut required alig Castle nut Thumb nut ch energy is converted in l Thermal energy to hydra Electrical energy to hydra	(B) (D) ang and rem (B) (D) gning the ax (B) (D) hydraulic pu aulic energy caulic energy	Straight pein hammer oving ? Gib-head key Circular taper key de shaft hole and slot of the nut for locking Chuck nut Self lock nut ump ?							
57. 58.	 (A) (C) Whi (A) (C) Whi (A) (C) Whi (A) (B) 	Plastic hammer Cross pein hammer ch key is used for easy fixit Feather key Hollow saddle key ch type of nut required alia Castle nut Thumb nut ch energy is converted in l Thermal energy to hydra	(B) (D) ang and rem (B) (D) gning the ax (B) (D) hydraulic pu aulic energy caulic energy lraulic energy	Straight pein hammer oving ? Gib-head key Circular taper key de shaft hole and slot of the nut for locking Chuck nut Self lock nut ump ?							

60.	Whio (A) (C)				Mag	rom fluid contan netic filter nanical filter	ninati	ons ?
61.	Whio (A)	ch of the followir Copper	ng is a (B)	an insulator ? Aluminium	(C)	Silver	(D)	PVC
62.	Whie	ch is a good cond	luctor	?				
	(A)	Silver	(B)	Iron	(C)	Steel	(D)	Aluminium
63.		ch law states tha ortional to the r			ectly p	roportional to the	e volt	age and inversely
	(A)	Ohm's law	(B)	Hook's law	(C)	Boyle's law	(D)	Newton's law
64.	Wha	t is the material	of ne	gative plate in	the lea	d acid battery ?		
	(A)	Antimony	(B)	Tin	(C)	Spongy lead	(D)	Lead peroxide
65.	Whie	ch instrument is	proh	ibited to connec	ct with	live wire ?		
	(A)	Ammeter	(B)	Voltmeter	(C)	Ohm meter	(D)	Watt meter
66.	Whie	ch measuring ins	strum	ent used to <mark>m</mark> e	asure t	he ampere, volt	and r	esistance ?
	(A)	Watt meter	(B)	Energy meter	(C)	Galvano meter	(D)	Multi meter
67.	Wha	t is the unit of p	ootent	ial difference ?				
	(A)	Watt	(B)	Ampere	(C)	Ohm	(D)	Volts
68.	 What is the advantage of free maintenance sealed battery ? (A) No need for check and top up distilled water (B) No need for recharging the battery (C) No chance of sulphation of battery terminals 							
	(D)	No need of disc	onneo	t the terminals	s to ren	nove battery		
69.		ch is a temperat						M arana intern
	(A)	Diode	(B)	Thyristor	(C)	Thermistor	(D)	Transistor
Α				9				008/2022

008/2022 {**P.T.O.**} 70. Which circuit the ballast resistor is used ?

- (A) Horn circuit (B) Wiper circuit
- (C) Flasher circuit (D) Headlamp circuit

71. Which of the following is true about the thermodynamic cycle of a diesel engine ?

- (A) Constant volume cycle (B) Constant pressure cycle
- (C) Atkinson cycle (D) None of these
- 72. What is the range of compression pressure of a typical petrol engine ?(A) 90 to 150 PSI (B) 400 to 550 PSI (C) 500 to 700 PSI (D) None of these
- 73. Which of the following is false about engine cooling system ?
 - (A) Radiator pressure cap consists of a pressure valve which opens up when the pressure exceeds a pre-set value.
 - (B) Vacuum valve on radiator pressure cap opens up to let the coolant in while the engine cools down.
 - (C) ECM calculates coolant temperature value from the ECT sensor output.
 - (D) Engine overheats if the thermostat valve is stuck open.

74. In which of the following types of oil pumps does not use eccentric shafts or cams ?

- (A) External gear type pump (B) Rotor type pump
- (C) Vane type pump (D) Plunger type pump
- 75. Which of the following statements is false about lubrication system ?
 - (A) Oil cooler heats the oil when coolant temperature is greater than oil temperature.
 - (B) All the oil reaching main oil gallery is filtered in Bypass oil filter system.
 - (C) Dry sump lubrication system uses a separate tank to store oil.
 - (D) Lubricant also helps in preventing blow by gases entering crankcase.
- 76. Which of the following is false about fuel system ?
 - (A) Air locking in the diesel fuel system will cause erratic running of engine.
 - (B) Water in fuel system might damage fuel injectors.
 - (C) An engine can be started without the signal from Crank position sensor (CKP) input.
 - (D) Injection pressure in CRDi engines vary from 200 to 2000 bars.

008/2022

- 77. Which of the following type of pump needs more frequent overhaul frequency than others under similar operating conditions ?
 - (A) Submersible pump
 - (B) Vertical turbine pump
 - (C) Centrifugal pumps
 - (D) All of these pumps have broadly the same maintenance frequency
- 78. Which of the following is true about the Submersible pumps ?
 - (A) Single stage pumps are preferred over Multistage pumps in water wells and oil wells
 - (B) They are centrifugal pumps operating in a vertical position
 - (C) The energy conversion taking place at the pump diffuser is kinetic energy into pressure energy
 - (D) All are true
- 79. Which of the following is false about Jet pumps?
 - (A) It has no reciprocating parts
 - (B) The motor and pump cannot be offset from the well
 - (C) Suction pipe is connected to the nozzle chamber
 - (D) All are false
- 80. Which of the following is wrong?
 - (A) A locked pump shaft will result in blown pump fuse
 - (B) Clogged strainer will result in reduced pump capacity
 - (C) A leaking valve will cause rapid wear and tear on parts
 - (D) Faulty pressure switch will result in pump not starting up
- 81. Crowning of pulleys are done for :

(A) Better belt life

- (B) Lesser chance of belt running off
- (C) Less belt slips (D) None of these
- 82. Which of the following is not true about induction motors ?
 - (A) Rotor of the induction motor cannot run at synchronous speed
 - (B) Motor r.p.m. increases with frequency of input supply
 - (C) Low rotor resistance means high starting torque
 - (D) Direction of rotation of an induction motor can be changed by any two swapping phase leads

83. Which type of valve is used for very fine control of fluid flow ?

- (A) Butterfly valve (B) Angle valve (C) Ball valve (D) Needle valve
- 84. Which of the following starters are used for starting a squirrel cage motor ?
 - (A) Star-delta starter (B) Auto-transformer starter
 - (C) Step-down transformer (D) All of these
- 85. Which of the following is false about D.O.L starters ?
 - (A) No-volt coil disconnects supply to the motor when the supply voltage is lower
 - (B) A thermal overload relay is provided to protect the motor
 - (C) Can be used without backup fuses
 - (D) Due to heavy starting current, their usage is limited beyond a certain motor capacity
- 86. Which of the following are the features of an ELCB, MCB Circuit breaker ?(A) Over current (B) Short circuit (C) Earth leakage (D) All of these
- 87. What is cut-off factor of a fuse ?
 - (A) The current at which the fuse element melts
 - (B) Ratio between minimum fusing current and current rating
 - (C) The voltage at which fuse element melts
 - (D) Time taken by a fuse to interrupt the circuit in the event of a fault
- 88. To what limit of current beyond which Re-wirable fuses are not usually preferred ?
 (A) 200 A
 (B) 350 A
 (C) 500 A
 (D) 1250 A
- 89. Which of the following relays designed to operate when current falls below a predetermined value ?
 - (A) Electromagnetic relay (B) Current sensing relay
 - (C) Under-current relay (D) Latching relays
- **90.** Which of the following is **not** a reason of motor running hot ?
 - (A) Open circuit winding (B) Short circuited capacitor
 - (C) Defective capacitor (D) Blown fuse

008/2022

- **91.** Inside which of the following hydraulic pumps a crescent shaped spacing can be found ?
 - (A) External gear pump (B) Internal gear pump
 - (C) Vane type pump (D) Lobe pump

92. Which of the following is true about temperature sensors ?

- (A) Its electrical resistance increases with increase in temperature
- (B) Its electrical resistance decreases with increase in temperature
- (C) It could be fitted with a balancing coil gauge
- (D) Its electrical resistance remains unchanged irrespective of temperature changes

93. Which of the following components serves the purpose of retaining the piston down against the seat in balanced condition in a pressure relief valve ?

- (A) Heavy spring (B) Poppet
- (C) Adjusting screw (D) Light spring
- **94.** Which of the following is a dependant factor on fluid flow rate of a variable flow control valve ?

(C) Viscosity of oil (D) All of these

95. Which of the following is not true about pneumatic systems ?

- (A) FRL assembly also add small quantities of oil into the compressed air systems
- (B) The expansion of PRV is Pressure Return Valve
- (C) Pressure switch can restart the compressor motor when the pressure drops below a pre-set value
- (D) Spool valve is a type of slide valve

96. Which of the following is false about Orifices ?

- (A) An orifice is the simplest method for controlling fluid flow
- (B) The orifice is always connected in parallel with the pump
- (C) Variable orifice is a calibrated needle valve
- (D) Orifices create a pressure drop

97. Which of the following is not associated with hydraulic actuator speed control ?

- (A) Meter in speed control (B) Meter out speed control
- (C) Bleed off speed control (D) Bleed out speed control

98. Which one of the following terms is associated with positive displacement pumps ?

- (A) Volute casing (B) Semi open impeller
- (C) Turbine pump (D) Screw rotors

99. Which of the following is not related with pipe joints ?

- (A) Eccentric reducer (B) Concentric reducer
- (C) Short nipple (D) Flanged bush

100. Which of the following is not true about pumps?

- (A) Rotary pumps don't need to be primed
- (B) Increase in fluid temperature causes cavitation
- (C) Foot valves are non-return valves
- (D) Self priming devices are connected between discharge pipe and pump

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