

Exam. Code: 08

Subject Code: 08-ME-2

Number of Pages in Booklet: 16

Number of Questions in Booklet: 100

Time: 1 Hour 15 Minutes



Maximum Marks: 100

INSTRUCTIONS

- Answer all questions.
- 2. All questions carry equal marks.
- 3. Only one answer is to be given for each question.
- If more than one answers are marked, it would be treated as wrong answer.
- Each question has four alternative responses marked serially as
 (A), (B), (C), (D). You have to darken only one circle or bubble indicating the correct answer on the Answer Sheet using BLUE BALL POINT PEN.
- 6. The candidate should ensure that Series Code of the Question Paper Booklet and Answer Sheet must be same. In case they are different, a candidate must obtain another Question Paper of the same series. Candidate himself shall be responsible for ensuring this.
- 7. Mobile Phone or any other electronic gadget in the examination hall is strictly prohibited. A candidate found with any of such objectionable material with him/her will be strictly dealt as per rules.
- 8. End of Examination, Candidates carry out this booklet, with them.

((A)	N-m/s ² or	(B) $N-s/m^2$			
((C)	poise	(D) stoke	X.	100	
2 1	rha	shoolute amount is a		* 10		
		absolute pressure is eq		36.00		
	(A)	gauge pressure + atm				4
	(B)	gauge pressure - atmo	AND ASSESSMENT OF STREET STREET, STREE			
	C)	atmospheric pressure -				
((D)	gauge pressure - vacu	um pressure			*
3	Γhe	hammer blow in pipes	occurs when			T .
		there is excessive leak				
		the pipe bursts under				
			igh the pipe is suddenly	brought to rest by		
	C)	closing of the valve	ign the pipe is suddenly	brought to rest by	3	
	D)		igh the pipe is gradually	brought to rest by	20	
	D	closing of the valve	ight the pipe is gradually	brought to rest by		
4	Γhe		n the help of a pressure	gauge is called		
(A)	atmospheric pressure	(B) gauge pressure	e		
(C)	absolute pressure	(D) mean pressure			1.8
e 1	7111					
		7 (-1)	ome spheres due to the		E11.	
	A)					
(C)	capillarity of water	(D) viscosity of w	rater		
6 1	Vent	urimeter is used to			*	
		measure the velocity	of a flowing liquid	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
		measure the pressure	The state of the s			
	C)		difference of liquid flo	wing between two		
	<i>C</i>)	points in a pipe line	difference of fidula flo	wing between two		
(D)		of liquid flowing in a	nine		
(1) E	1					
			of heat required to rai	se the temperature		
		By unit degree of a s				
	(A) (b)	By unit degree of a u				Y
(Of a unit mass by 10	0		3	
(D)	None of the above				
8 I	nter	nal energy of a perfect	ass depends upon			
		Temperature only	gas depends apon			
	B)	Temperature and press	ure			
	C)	Temperature, pressure				
	D)	None of the above	and specific fleats			
		V -				
08_B]		# # # # # # # # # # # # # # # # # # #	2	[Conted		
		j		4015		

The unit of dynamic viscosity in S.I. units is

20.2	In 100 CC -4 stroke eligilie, what does CC	mound.
	(A) Cubic centimeter (B) Cooled	cylinder
	(C) Compound centimeter (D) Casted	cylinder
-0	10 What I I'm it also also What in a	ish a shind hadro show one
100	When two bodies are in thermal equilibrium was also in thermal equilibrium with each other	
100	(A) First law of thermodynamics	
	(B) Second law of thermodynamics	
190	(C) Zeroth law of thermodynamics	
11.	(D) None of the above	
	i $\hat{n}_{_{\infty}}$	
31	11 The gas constant (R) is equal to the	of two specific heats.
	(A) sum (B) differen	ce
	(C) ratio (D) product	
	12, A bimetal plate consists of two materials o	f different coefficients of
	thermal expansion. The coefficient of thermal	
	of the plate is less than the bottom part. If the	temperature of the entire
	plate increases, what happens to the plate?	
	(A) Expends (B) Contrac	the season of th
	(C) Bends down (D) Bends	ир
	13 This allows the designer to conceptualize ob	iects more easily without
	having to make costly illustrations, models,	
	(A) Computer-aided manufacturing	
	(B) Computer-aided engineering	
	(C) Computer-aided design	
	(D) Computer-aided prototyping	
	Which one of the following methods prod process?	uces gear by generating
	(A) Hobbing (B) Casting	
	(C) Punching (D) Milling	
		a Dir
	15 Tool life of the cutting tool is most affected	
	(A) Tool geometry (B) Cutting	
		ructure of material being cut
4.0	08_B] 3	[Conted
27		

(A) Distortion of (B) Tearing chips (C) Cutting the m (D) Shearing the m (A) Thickness of (C) Screw pitch	metal across a zone used to check	
(C) Cutting the m (D) Shearing the r 17 A feeler gauge is u (A) Thickness of (C) Screw pitch 18 For ammonia refrig condenser are made (A) copper	netal across a zone metal across a zone used to check clearance (B) Radius (D) Surface roughness	
(D) Shearing the rate of A feeler gauge is used (A) Thickness of (C) Screw pitch 18 For ammonia refriguence are made (A) copper	used to check clearance (B) Radius (D) Surface roughness	
(A) Thickness of (C) Screw pitch 18 For ammonia refriguence condenser are made (A) copper	clearance (B) Radius (D) Surface roughness	
(C) Screw pitch 18 For ammonia refrig condenser are made (A) copper	(D) Surface roughness	
18 For ammonia refrig condenser are made (A) copper		
condenser are made (A) copper	corating systems, the tubes of a shall and take	
		10
(C) stool	(B) aluminium	
(C) steel	(D) brass	1/3,
is called	een dry bulb temperature and wet bulb temperature,	11CO
(A) dew point dep		
(C) dry bulb depre		
20 A closed cycle gas t an open cycle gas	turbine gives efficiency as compared to	
(A) same	(B) lower	
(C) zero	(D) higher	
21 Dynamic friction as (A) Same	compared to static friction is	
(B) More	-1 sinc 0	
(C) Less	N. C.	
(D) May be less or	more depending upon nature of surfaces and velocity	
pressure, $p_a = Partia$	n's law of partial pressures, (where $pb = Barometric$ al pressure of dry air, and $p_v = Partial$ pressure of	
water vapor) $(A) P_1 = P_2 - P_3$	$(B) P_{n} = n + n$	
(A) $P_b = p_a - p_v$ (C) $P_b = p_a \times p_v$	(B) $P_b = p_a + p_v$ (D) $P_b = p_a / p_v$	
1011		
	delivered by the compressor is called	
(A) compressor cap (C) swept volume		
· 08_B]	4 [Conted	

Theoretically, a four stroke cycle engine should develop power as that of a two stroke cycle engine. (A) same (B) double (C) four times (D) half The formation of frost on cooling coils in a refrigerator (A) reduces power consumption (B) increases heat transfer (C) increases power consumption (D) improves C.O.P. of the system Which tool is used to measure gap size in a rough alignment? (A) inside caliper (B) Dial indicator (C) Feeler gauge (D) measuring tape A carburetor is used to supply (A) air and diesel (B) petrol and air (C) diesel (D) petrol The primary fuel used in nuclear power plants is (A) U ₂₃₅ (B) U ₂₃₈ (C) Pu ₂₃₉ (D) Pu ₂₃₃ The exhaust valve in a four stroke cycle petrol engine (A) opens at 50° after bottom dead centre and closes at 15° before top
(C) four times (D) half 25 The formation of frost on cooling coils in a refrigerator (A) reduces power consumption (B) increases heat transfer (C) increases power consumption (D) improves C.O.P. of the system 26 Which tool is used to measure gap size in a rough alignment? (A) inside caliper (B) Dial indicator (C) Feeler gauge (D) measuring tape 27 A carburetor is used to supply (A) air and diesel (B) petrol and air (C) diesel (D) petrol 28 The primary fuel used in nuclear power plants is (A) U ₂₃₅ (B) U ₂₃₈ (C) Pu ₂₃₉ (D) Pu ₂₃₃ 29 The exhaust valve in a four stroke cycle petrol engine (A) opens at 50° after bottom dead centre and closes at 15° before top
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The exhaust valve in a four stroke cycle petrol engine (A) opens at 50° after bottom dead centre and closes at 15° before top
(A) opens at 50° after bottom dead centre and closes at 15° before top
dead centre
(B) opens at bottom dead centre and closes at top dead centre
(C) may open and close anywhere
(D) opens at 50° before bottom dead centre and closes at 15° after top dead centre
The part of the coupling that actually transmits power and rotation from
one shaft to the other shaft is
(A) driver (B) hub
(C) key (D) gap
08_B] 5 [Conted,

	(7)
	31 Morse test can be conducted for
	(A) multi-culinder engines (B) netral engines
	(C) diesel engines (D) all of these
	32 The unit of strain is
	(A) m/m (B) Kg/m
m_{s}	(C) Kg-mm (D) dimensionless
	33 A simply supported beam of span L which carries over its full span a
	load varying uniformly from zero at either ends to W kg/m at mid span,
	will have zero shear force at
	(A) ends
	(B) Mid span
	(C) Both ends
	(D) None of the above
	The failure of a material under varying load, after a number of cycles of such load, is known as
	(A) Brittle failure (B) Ductile failure
	(C) Impact failure (D) Fatigue failure
	35 All of the following are the main causes of accidents in industry
	EXCEPT:
	(A) poor work habits
	(B) alcohol or drug abuse
	(C) weather
	(D) unsafe acts
	36 A body having similar properties throughout its volume is said to be
	(A) Homogenous (B) isotropic
	(C) isentropic (D) Heterogeneous
1	08_B] 6 [Conted
	(C)
	20 11/4 - 1VI

	37 When a body moves round a fixed axis it will have ?
	(A) A circular motion (B) A rotary motion
	(C) A translatory motion (D) A swinging motion
	38 For self locking lifting machine, the efficiency must be
	(A) 100% (B) 50%
	(C) More than 50% (D) Less than 50%
	39 Highly polished surfaces of a thermos-flask prevent heat by
	(A) conduction
	(B) radiation
	(C) convection
	(D) None of the above
-	40 At critical point the latent enthalpy of vaporization is
77	(A) maximum (B) minimum
	(C) zero (D) None of the above
	41 During an adiabatic process the change in entropy is
	(A) positive (B) zero
	(C) negative (D) positive or negative
	42 A mixture of liquid and vapor refrigerant in a vessel is an example of
	(A) Heterogeneous system (B) Homogenous system
	(C) Closed system (D) Open system
	43 Buffing is
	(A) Process of electroplating
	(B) An etching process
	(C) The process of bringing out the luster of metal
	(D) Knurling process
	08_B] 7 [Conted
	[Contedin.

		17b1, CD2,	K
		sprue hole is	08
		An eccentric hole	01
	(E		1721
	(E		0
	,-	Motiv	/
	45 A	half nut of lathe is	1
	(A	Damaged nut	1
	(B	Nut manufactured in parts	
	(C	nut with half the standard pitch	1.0
	(D	Mechanism that locks the lathe carriage to the lead screw for thread cutting	177
	46 In	which operation on a work-piece on lathe the spindle speed will be	~173°
		west?	10
	(A		0
	(C		
	47 Si	nank of taper drills are provided standard taper known as	
	(A		
	(0	2 - 2 - 0 ; - 2 m - 10 - 11 - 11 - 11 - 11 - 11 - 11 -	
		The state of the s	
		hile using HSS tools on a lathe, cutting speed will be maximum when achining	
	(A	aluminium (B) C.I	
	(C	(D) High carbon steel	
	49 In	metal cutting operations continuous chips are produced while machining	
		A) Brittle material (B) Ductile material	
	(0		
	50 TI	ne function of chip breaker in a cutting tool is	
	(A		
	(B		
	(C	To provide smooth path for long chips	
	(E		
	08_B]	8 [Conted	
		100	
Č-			

	(1) (1) (1)
	51 Core prints are provided to
	(A) To increase surface finish of casting
	(B) To direct flow of molten metal in to mould
	(C) Form seat to support and hold the core
	(D) None of the above
	TWO DEED WELL THE
	Which does not fit with rest in the following?
	(A) reamer
	(B) Drill
	(C) Hammer
	(D) Milling cutter
	500 (12)(18) (10)
4	53 Precision is
	Liberta (A) in Piercing I process and suring the sea a sea state of the sea of the
	(B) The repeatability of a measurement process
	(C) Agreement of the result of a measurement with true value of
	measured quantity
	(D) Error of judgment in reading on observations
	and not ought the out to allast
	A sine bar is used to measure (A) Surface finish
	(A) Surface finish (B) Surface roughness is a character with the control of the c
	(B) Surface roughness is a character with a surface of the surface
	(C) Internal taper
	(D) External taper a regret to the rest of the state of t
	External taper
	Which one of the following is not a shearing process?
	(A) embossing
	(B) Blanking to warm the tracking the supplies that the supplies the s
	(C) Lancing 'sbleas / as 1
	(D) notching
	08_B] 9 [Conteda:
	(C) Lancing (D) notching 9 [Conteda:
	"Uhr "CD"

	56 An	ideal fluid is		sacut.	
	(A)	Similar to perfect a gas	(B)	Frictionless and inco	mpressible
	(C)	compressible	(D)	None of the above	-77
	57 The	velocity of a fluid particl	e at tl	ne centre of the pipe	section is
	(A)	minimum	(B)	average	
	(C)	maximum	(D)	zero	
	58 Hide	den lines are drawn as		3	
	•(A)	dashed narrow lines			
	(B)	dashed wide lines			
	(C)	long-dashed dotted wide	line		"[]2.
	(D)	long-dashed double dotte	d wide	e line	
	59 Who	en an object is cut by a secti V.P, then the sectional view	on plan	ne parallel to H.P and p ne object is obtained	erpendicular n ?
	(A)	front view	(B)	top view	1 1/11/2
	(C)	left side view	(D)	right side view	The same
1100	60 Lett	tering on a drawing sheet	should	have	
/ /he	(A)				
-100	(B)			. 01	
G		In a sentence only first		et in capital letter	
	(D)				
	61 The	profile of a gear teeth is	in th	form of	
				involutes	
	(A) (C)			Helix	
10.					Sp.
I MIL.	62 The	e curve generated by a point s without slipping along o	t on tl utside	ne circumference of a of another circle is k	rircle, which nown as
1/1/2	(A)	Hypocycloid	(B)	Epicycloids	
1.	(C)	Cycloid	(D)	Trochoid	
*	08_B]		10		[Conted
	08_B]		10		[Conted

(C)) .	07.		-
0			
		Cont. Sea anno de se	
	63 In orthographic projections, the		
600	(A) diverge from station point(C) be parallel	(B) converge from station (D) None of these.	n point
100	(C) be paraner	(D) None of these,	-17.
	64 If an object lies in third quadr planes will be	ant, its position with respect	to reference
10	(A) in front of V.P, above 'f	i,P.	
100	(B) behind V.P., above H.P.		
	(C) in front of V.P., below	H.P.	
	(D) behind V.P., below H.P.		-04
4	65 Dullay in a halt drive act		
	65 Pulley in a belt drive acts as(A) Cylindrical pair	(B) Turning pair	. (1).
	(C) Rolling pair	(D) Sliding pair	
	(e) Roming pan	(D) Shang pan	
	66 Pitch point on a cam is		
1	(A) any point on a cam is	,	
	(B) the point on cam pitch of	urve having the maximum p	ressure angle
120.	(C) any point on pith circle		
1.25	(D) none of the above	alles	
100			525
1/2.	67 A mechanism is an assemblag		
CAP	(A) four links or more than	four links	2 4
	(B) two links	Africa Calin	
	(C) three links or less than(D) none of the above	three links	
	(D) Holle of the above		
110	68 The tendency of a body to re known as	esist change from rest or m	otion is
	(A) mass	(B) friction	
Il Bris.	(C) inertia	(D) resisting force	CO
1 101.			
111	69 The ratio of brake power to in		gine is called
701.	(A) Mechanical efficiency	(B) Thermal efficiency	9
	(C) Volumetric efficiency	(D) Relative efficiency	
4.0	08_B]	ii dh.	In the second
	08_В]		[Conted:
	all a		

	101
	101, 113,
	70 In a four stroke cycle petrol engine, during suction
	(A) only air is sucked
	(B) only petrol is sucked in
	(C) mixture of petrol and air is sucked in
	(D) none of the above
	71 The kinematic viscosity is the
	(A) ratio of density of the liquid to the absolute viscosity
	(B) product of absolute viscosity and density of the liquid (C) product of absolute viscosity and mass of the liquid
	(D) ratio of absolute viscosity to the density of the liquid
	72 Coefficient of contraction is the ratio of
	(A) actual velocity of jet at vena contracta to the theoretical velocity
	(B) actual discharge through an orifice to the theoretical discharge
	(C) loss of head in the orifice to the head of water available at the
	(D) area of jet at vena contracta to the area of orifice
1	73 According to equation of continuity
1/2	According to equation of continuity, (A) we a = w a (B) w y = w y
2/2	(A) $w_1 a_1 = w_2 a_2$ (B) $w_1 v_1 = w_2 v_2$ (C) $a_1 v_1 = a_2 v_2$ (D) $a_1 / v_1 = a_2 / v_2$
.10	(C) $a_1v_1 = a_2v_2$ (D) $a_1/v_1 = a_2/v_2$
	74 Which of the following is an example of laminar flow ?
	(A) Underground flow
	(B) Flow past tiny bodies
	(C) Flow of oil in measuring instruments
	(D) all of these
11/2	
1 10	75 Reynold's number is the ratio of inertia force to
	(A) viscous force (B) elastic force (C) gravity force (D) pressure force
	(C) gravity force (D) pressure force
110	08_B] 12 [Conted

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		27 ye		the	and their child 3 years ago was child 5 years ago was 20 years.
*					40 years
				(D)	None of these routes (A)
	77	Find	out the wrong number in		given sequence of numbers :
		105,	85, 60, 30, 0, -45, -90		See Rom wanders
		(A)		(B)	85 (Grand) (Gr
					60 Plans In a School Edward
×	78	Law	of Inertia was given by _		All and the second seco
			Madam Curie	(B)	Rutherford
					Isaac Newton
		(0)		100	
*** I	79	The	first Indian in space was		
O.P.		(A) (B)	Vikram Sheth Kalpana Chawla	erie (*) Ville (*)	Y specification of the decay
		(C)	Sunita Williams		Rose Colemn Colemn
	6.15	(D)	Rakesh Sharma		O. Vanta Stephan et abanco
	2000		The water of the		
	* B			(7)	y neighboring country(s) of India
	K 154	(A)	digital to the property of the state of	(B)	Chesing and max to all 25% as the contract of
		(C)	2	HE GR	dunagyirin casa or basi die nichi mah. In dy andreban
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"M 'In.	82	What	is the unit for measuring	the	adult would be a sound?
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	08_B			13	[Conted
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	IN TO THE TOTAL PROPERTY OF THE PARTY OF THE
	Who among following is the writer of "Vande Mataram" (A) Rabindranath Tagore (B) Mulk Raj Anand (C) B C Chatterje (D) Harinder Nath Chattopadhya
	Who won Rajiv Gandhi Khel Ratan Award for the year 2011- (A) Zaheer Khan (B) G. Jwala
	(C) Gagan Narang (D) Tejaswini Sawant (C) Who is the Chairman Cum Managing Director of Air India?
	(A) Rohit Nanda (B) Aruna Roy (C) Capt. Vijya Gupta (D) Naresh Goyal
	Engineers Day is celebrated every year to mark birth anniversary of (A) M. Visvesvariya (B) S. C. Rangwala (C) M. B. Jain (D) None of them
	IDMA was recently in news because of (A) Film festival (B) Handicraft Fair (C) International Pharmaceutical Exhibition (D) None of them
	Who won three of the four Grand slam titles for the year 2011? (B) Rafael Nadal (C) Roger Federer (D) None of them
	89 Nandan Nilekani is a chairman of (A) UTI (B) UIDA (C) INFOSYS (D) None of them
	In MS Excel, you are asked to plot a graph to show the number of seats allocated to each party/group from the election results. Select the most preferable type of chart from the followings
1 2	(A) Line Chart (B) Pie Chart (C) Area Chart (D) XY Scatter Chart
	91 is an open source alternative to MS Office. (A) Office 365 (P) LibreOffice (C) Zoho Office Suite (D) ThinkFree Office
"UN'.	92 In MS Excel, how many arguments are necessary in VLOOKUP function? (A) 0 (B) 1
111	(C) 2 (D) 3 08_B] 14 [Conted

93 Look at this series: 3,		12, What number should come	
next? (A) 7/2-2	(B)	10	
(C) 14	·(D)		
	0(-)	11 CD.	
94 44 41 38 35 32 29 2	6		
(A) 24 21	(B)	22 19	
(C) 23 20	(D)	29 32	
	W 13		
95 Look at this series: 83, fill the blank?	, 73, 93, 63, _	_, 93, 43, What number should	
(A) 33	√ (B)	53	
(C) 73	(D)	93	
96 0, 2, 3, 5, 8, 10, 15,	17, 24, 26, ?		
(A) 28	(B)	30	
(C) 32	(D)	35	
97 Choose the missing ten	rms out of the	given alternatives	
AB, DEF, HIJK, ?,	ms out of the	given atternatives.	
(A) LMNO	(B)	LMNOP	
(C) MNOPQ	(D)	QRSTU	
98 R, U, X, A, D, ?	0/		
(A) F	A STATE OF THE PARTY OF THE PAR	G	
(C) H	(D)	1	
99 Choose the missing ter	m from below	options: B, D, F, I, L, P, ?	
(A) R		S	
(C) T	(D)	U	
100 _ bbca _ bcca _ ac _	a _ cb		
(A) abeba		acbab	
(C) bacab		bcaajb	
08_B]	15	[Conted	
	- 1	bcaajb [Conted	