Sr No.	PhD Mechanical Engineering
1	Which fraction comes next in the sequence
	$\frac{1}{2}, \frac{3}{4}, \frac{5}{8}, \frac{7}{16}, \frac{7}{16}$?
Alt1	9/32
	10/17
	11/34
Alt4	12/35
	Change the majoring terms out of the given sufficient
2	Choose the missing term out of the given options:
A 1. 4	Accabbacaabaacac
	aacb
	acbc
	babb
Alt4	bcbb
3	Leaf is related to Sap in the same way as Bone is related?
	Fluid
Alt2	Blood
Alt3	Marrow
Alt4	Calcium
4	Select the lettered pair that has the same relationship as the original pair of words: Rotate: Gyrate
Alt1	Putrefy: Reject
Alt2	Anachronism: Cubism
Alt3	Accolade: Criticism
Alt4	Absolve: Exonerate
	Choose the alternative, which is similar to the given words: Liver : Heart : Kidney
	Blood
	Nose
	Lung
Alt4	Urine
6	Spot the defective segment from the following:
	The more you read
	the more will you
	get to know
	about more things

7	Choose the meaning of the idiom/phrase from among the options given:
	A rainy day
Alt1	a holiday
Alt2	a difficult time
Alt3	a fine day
Alt4	a wet day
	•
8	The villagers plan to the elections in protest.
	avoid
Alt2	ignore
	neglect
	boycott
9	Choose the option closest in meaning to the given word:
3	PUERILE
Δlt1	vulgar
	perverse
	childish
	young
Alt4	young
10	Choose the antonymous option you consider the best:
10	OBTUSE
Alt1	
	sharp
	reliable
	lucid
AII4	lacia
11	In a Cricket tournament, each of the six teams will play every other term exactly once during the league
11	In a Cricket tournament, each of the six teams will play every other term exactly once during the league
Alia	phase. How many matches will be played during the league phase in total?
Alt1	
Alt2	
Alt3	
Alt4	24
12	A walks 10 metres in front and 10 metres to the right. The every time turning to his left, he waks 5, 15 and 15
	metres respectively. How far is he now from the starting point?
	15 metres
	5 metres
Alt3	10 metres
Alt4	30 metres
13	The sum of the income of A and B is more than that of C and D taken together. The sum of the income of A and
	C is the same as that of b and D taken together. Moreover, A earns half as much as the sum of the income of b
	and D. Whose income is he highest ?
Alt1	A
Alt2	В

Alt3	r
Alt4	
AIL4	
1.4	Five house A. D. C. D. and F. are costed on a honoh. A is to the left of C. b is to the immediate right of D. and there
14	• • • • •
	are two people between C and D. E is to the extreme right of the row. Who is exactly at the middle of this group
	?
Alt1	
Alt2	
Alt3	
Alt4	E
15	A man is facing south. He turns 1350 in the anticlockwise direction and then 1800 in the clockwise direction.
	Which direction is he facing now?
Alt1	North East
Alt2	North West
Alt3	South East
Alt4	South West
16	Find the number which when added to itself 17 times becomes 126.
Alt1	
Alt2	
Alt3	
Alt4	
7110-7	
17	Ravi is exactly 9999 days old today. How old is he?
Alt1	
Alt2	
Alt3	
Alt4	
AIL4	29
10	A Marke to the account has 24 students in his sless A D O Companior. DOF and in the hathwards and the
18	A Maths teacher usually has 21 students in his class. A,B & C are asleep. D&E are in the bathroom and the
	teacher has sent F&G to the principal's office. How many students are left in the classroom?
	40
Alt1	
Alt2	
Alt3	
Alt4	17
19	JIPMER is coded as 589142;
	AIPMT is coded as 78910;
	Then JEE is coded as
Alt1	910
Alt2	544
Alt3	789
Alt4	914

20 Mr. Arvind drove 90 km at 30 kmph and then an additional 90 km at 45 kmph. What is his average spee	
	d ove
his 180 km ?	
Alt1 37.5 kmph	
Alt2 35 kmph	
Alt3 36 kmph	
Alt4 38 kmph	
21 In grey cast iron, carbon is present in the form of	
Alt1 Cementite	
Alt2 Flakes	
Alt3 Free carbon	
Alt4 Spheroids	
22 The following structure is obtained by austempering process of heat treatment	
Alt1 Toorsite	
Alt2 Martensite	
Alt3 Sorbite	
Alt4 Bainite	
Alt4 Dallitte	
23 If V is the volume of metal in a casting and A its surface area, then time of solidification will be proportion	al to
23 if v is the volume of metal in a casting and A its surface area, then time of solidincation will be proportion	iai to
Alt1 V, 1/A	
Alt2 1/V, A	
Alt3 V ² , 1/A	
Alt4 V ² , 1/A ²	
24 Planking and Diagraing apparation can be performed simultaneously in	
24 Blanking and Piercing operation can be performed simultaneously in Alt1 Simple die	
·	
Alt2 Progressive die	
Alt3 Compound die	
Alt4 Combination die	
25 Which is the most important characteristic of a measuring instrument?	
Alt1 Repeatability	
Alt2 Precision	
Alt3 Accuracy	
Alt4 Readability	
26 Expressing a dimension as 32.5/32.3 mm is the case of	
Alt1 Unilateral tolerance	
Alt2 Bilateral tolerance	
Alt3 Limiting dimension	
Alt4 Basic size	
27 Clinometer is an instrument concerned with	
Alt1 Angular measurement	
Alt2 Roundness measurement	
AITZ Kounaness measurement	

Alt3	Linear measurement
Alt4	Flatness measurement
	Graphical method, simplex method and transportation method are concerned with
	Value analysis
	Linear programming
	Break even analysis
Alt4	Queuing theory
	The probability distribution of activity times in PERT follows distribution
	Normal
	Binomial
	Beta
Alt4	Exponential
20	A shoft of diameter d and length I has been leaded avially. The ratio of shange in diameter to the eviginal is called
30	A shaft of diameter d and length I has been loaded axially. The ratio of change in diameter to the original is called
Δlt1	Longitudinal strain
	Shear strain
	Volumetric strain
-	Lateral strain
7.11.	
31	A bicycle remains stable in running through a bend because of
	Gyroscopic action
	Coriolis acceleration
	Centrifugal action
	Radius of curved path
32	Efficiency of a single riveted lap joint lies in the range
	25 – 40 %
Alt2	45 – 65 %
Alt3	65 – 75 %
Alt4	75 – 85 %
33	The bearing characteristic number relating absolute viscosity of lubricant (Z), speed of journal (N) and bearing
	pressure (p) is defined as
Alt1	ZN/p
Alt2	Zp/N
Alt3	pN/Z
Alt4	ZpN
	In a reversible isothermal process undergone by an ideal gas
	Heat transfer is zero
	Change in internal energy is zero
	Work transfer is zero
Alt4	Heat transfer is equal to work transfer

Alt1	Increase
	Decrease
	Remain same
	May increase / decrease
7 (10 1	may moreuse / decrease
36	In the heat flow equation Q=kA(t ₁ -t ₂)/x, the term x/kA is known as
	Thermal resistance
	Thermal coefficient
	Temperature gradient
	Thermal conductivity
37	LMTD in case of counter flow heat exchanger as compared to parallel flow heat exchanger is
	Higher
	Lower
	Same
Alt4	Depends on temperature conditions
38	The ratio of clearance volume to the swept volume is called
	Clearance ratio
Alt2	Expansion ratio
Alt3	Cut-off ratio
Alt4	Compression ratio
39	During the adiabatic cooling of moist air
Alt1	DBT remains constant
Alt2	Specific humidity remains constant
Alt3	Relative humidity remains constant
Alt4	WBT remains constant
40	Bodies in floatation to be in stable equilibrium, the necessary condition is that the centre of gravity is located
	below the
Alt1	Centre of gravity
Alt2	Centroid
Alt3	Metacentre
Alt4	Epicentre
41	In terms of speed of rotation of the impeller (N), discharge (Q) and change in total head (H) through the
	machine, the specific speed for a pump is
Alt1	(NVQ)/H^(3/4)
Alt2	(QVN)/H^(3/4)
Alt3	(NVQ)/H^(5/4)
Alt4	(QVN)/H^(5/4)

	Ferrite mainly
	Pearlite mainly
Alt3	Ferrite and pearlite
Alt4	Pearlite and cementite
43	A milling cutter having 8 teeth is rotating at 150 rpm. If the feed per tooth is 0.1 mm, the table speed in mm per
	minute is
Alt1	120
Alt2	187
Alt3	125
Alt4	70
44	A particle is projected at an angle Θ to the horizontal and it attains a maximum height H. the time taken by the
	projectile to reach the highest point of its path is
Alt1	√H/g
Alt2	√(2H/g)
Alt3	√(2H sinθ)/g
Alt4	√2H/sinθ
45	The outside diameter of a hollow shaft is twice its inside diameter. The ratio of its torque carrying capacity to
	that of a solid shaft of the same material and the same outside diameter is
	15/16
Alt2	
Alt3	
	1/16
7 110 1	
46	For same maximum pressure and heat input, the most efficient cycle is
	Diesel cycle
	Dual cycle
	Otto cycle
Alt4	Stirling cycle
4.7	At 120 m and 1 m Chile and 1 m
4/	Air at 20 ^o C blows over a plate of 50 cm × 75cm maintained at 250 ^o C. If the convection
	heat transfer coefficient is 25W/m2 ^o C, the heat transfer rate is
	215.6 kW
	2156 kW
	2.156 kW
Alt4	21.56 kW
	The process used for summer air conditioning are
	Heating and humidification
Alt2	Cooling and humidification
Alt3	Heating and dehumidification
Alt4	Cooling and dehumidification
49	The equation of free vibration of a system is \ddot{x} +36 π ^2 x=0. Its natural frequency is
	6 Hz

Alt2	3π Hz
Alt3	3 Hz
Alt4	6π Hz
50	People arrive at a hotel in a poission distributed arrival rate of 8 per hour. Service time distribution is closely
	approximated by the negative exponential. The average service time is 5 minutes. The mean number in the
	waiting line will be
Alt1	1/3
Alt2	2/3
Alt3	4/3
Alt4	5/3
51	A steel ball is dropped from a height of h ₁ onto a steel plate and rebounds to a height
	h ₂ . The coefficient of restitution between the ball and plate will be
Alt1	h ₁ /h ₂
Alt2	h ₂ /(2h ₁)
Alt3	\(\hearth\)
	\(\(\lamble\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle\)\(\rangle
52	A simply supported beam with a span of 4.5 meters carries a point load of 30KN at 3 meters from left support.
	For the section lxx=54.97×10 ⁻⁶ m ⁴ and E=200GN/m ² . The deflection
	under the load will be
Alt1	4.09 mm
	5.09 mm
	4.09 cm
	5.09 cm
53	A fly wheel of moment of inertia 9.8 kg m ² fluctuates by 30 rpm for a fluctuation in energy of 1396
	Joules. The mean speed of flywheel in rpm is
Alt1	
Alt2	
Alt3	
	2940
7.110.1	
54	A gear set has a pinion with 20 teeth and gear with 40 teeth and have a module of 5mm. the length of the line
	of action is 19 mm. The centre distance for the gear set in mm is
Alt1	
Alt2	
Alt3	
Alt4	
Alt4	
55	A Carnot engine receiving heat at 400 K has an efficiency of 25%. The COP of a Carnot refrigerator working
33	between the same temperature limits is
Alt1	
Alt1	
Alt3	
Alt4	4

56	Water having kinematic viscosity of 0.01 stoke flows at a velocity of 2m/sec in a pipe of 15cm diameter. For dynamic similarity, the velocity of oil of kinematic viscosity 0.03 stoke in a pipe of same diameter will be
	aynamic similarity, the velocity of on or innernatio viscosity of os stone in a pipe of same alameter will be
Alt1	0.33 m/sec
Alt2	0.66 m/sec
Alt3	2 m/sec
Alt4	6 m/sec
57	The operating temperature of a cold storage is -2 ^o C. Heat leakage from the surrounding is 30kW
	for the ambient temperature of 40 ^o C. The actual COP of the refrigeration plant used is one-fourt
	that of an ideal plant working between the same temperatures. The power required to drive the plant is
Alt1	1.86 kW
Alt2	3.72 kW
Alt3	7.44 kW
Alt4	18.6 kW
5.2	A cylindrical roller bearing is subjected to radial force of 4500 N and application factor 1.3. What is the
50	equivalent dynamic load acting on bearing if it has 90% reliability with desired life of 10000 hrs?
	3461.5 N
	5000 N
Alt3	5450 N
Alt4	5850 N
59	Match the following physical quantities in Group 1 with their dimensions in Group2
	β μ · / · · · · · · · · · · · · · · · · ·
	1. Work done (Energy) (W) A). [M L2 T – 3]
	2. Power (P) B). [M L-1T-1]
	3. Momentum (M) C). [M L2 T– 2]
	4. Modulus of elasticity (E) D). [M L T – 1]
	5. Dynamic viscosity () E. [M L- 1 T- 2]
	1-(A), 2-(B), 3-(C), 4-(D), 5-(E)
	1-(C), 2-(A), 3-(D), 4-(E), 5-(B)
	1-(D), 2-(B), 3-(C), 4-(A), 5-(E)
Alt4	1-(B), 2-(A), 3-(C), 4-(D), 5-(E)
	The elongation of a bar is 0.5 mm, when a tensile stress of 200 N/mm ² acts on it. Determine
60	rrie cionsación of a par is oss mini, which a censue su ess of 200 N/MIII/Sab/2/Jab/ acis on it. Detellille
60	original length of a bar if modulus of elasticity is 150 x 10 ³ GPa

Alt1 375.93 mm Alt2 300 mm

Alt3	360 mm
Alt4	427.3 mm
61	Determine torque transmitted on the pinion shaft if torque transmitted on gear shaft is 20 Nm. Consider Gea
	ratio = 4
	8 Nm
	5 Nm
	80 Nm
Alt4	16 Nm
62	The parameters of a fin are given below. Diameter of the fin $d = 2$ cm, Thermal conductivity $k = 200$ W/mK,
-	Convective heat transfer coefficient h = 12 W/m ² K
	convective near transfer coefficient if = 12 w/m/sup/2/sup/k
	Base temperature of the fin Ts = $500 < \sup 0 < j = 0$
	rate of heat transfer from the fine.
Δl+1	119.7 W
	97.93 W
	57.7 W
	4.62 W
7	
63	Consider that heat transfer is taking place through a fin having circular cross-sectional area, one dimensional
	as shown in figure. The rate of heat transfer by conduction into a section at x is equal to
	· ·
Alt1	sum of rate of heat transfer by convection out of the element (x+dx) and heat transfer by convection from the surface
71101	between x to (x+dx)
Alt2	sum of rate of heat transfer by conduction out of the element (x+dx) and heat transfer by conduction from the surface
	between x to (x+dx) sum of rate of heat transfer by conduction out of the element (x+dx) and heat transfer by convection from the surface
Alt3	between x to (x+dx)
Alt4	none of the above
64	What is the correct formula for thermal resistance (R _k) of a spherical shell of inner and outer ra
	as r _i and r _o respectively and k being the thermal conductivity?
	R _k = (r _i - r _o) / 4 π r _i r _o k
	R _k = $4 \pi \text{ r}$ _i r _o k / (r _i - r _o)
	$R < sub > k < / sub > = 4 \pi r < sub > i < / sub > r < sub > o < / sub > k / (r < sub > i < / sub > o < / sub >)$
Alt4	R _k = r _i r _o / 4 π k (r _i – r _o)
6.	What is the value of shear stross acting on a plane of circular har which is subjected to avial tancila lead of 10
05	What is the value of shear stress acting on a plane of circular bar which is subjected to axial tensile load of 10
۸ ۱۲۹	kN? (Diameter of bar = 40 mm , θ = 42.3 ^o)
	58.73 Mpa
	40.23 Mpa
	39.60 Mpa
$\Lambda I + I$	45.61 Mpa

66	Match the following Manufacturing processes with their Types and select the correct option.
	1. Metal forming A). Grinding
	2. Surface finish B). Rivetting
	3. Sheet metal working C). Extrusion
	4. Metal joiningD). Blanking
Alt1	1-(D), 2-(A), 3-(C), 4-(B)
	1-(C), 2-(A), 3-(D), 4-(B)
	1-(A), 2-(D), 3-(C), 4-(B
	1-(D), 2-(A), 3-(B), 4-(C)
67	Match the following Group-1 with Group-2 and select the correct answer from the options below
	(A) pressure head $-$ (1) μ / ρ
	(B) velocity head - (2) vd / v
	(C) kinematic viscosity - (3) v ² /ρg
	(D) Reynolds number - (4) p / ρg
	- (5) v ² / 2 g
Alt1	A-(5), B-(3), C-(2), D-(1)
	A-(4), B-(1), C-(3), D-(2)
	A-(4), B-(5), C-(1), D-(2)
	A-(3), B-(5), C-(2), D-(1)
68	Match the following group 1 items with group 2 items and select the correct option.
	(1) PMM1 (A) Heat pump
	(2) PMM2 (B) Violates the statement that total energy of the universe is constant
	(3) Reversible heat engine(C) Violates Kelvin-Planck statement
	(4) Carnot cycle (D) Reversible process

Alt1	1-(B), 2-(C), 3-(A), 4-(D)
	1-(A), 2-(C), 3-(B), 4-(D)
	1-(C), 2-(B), 3-(A), 4-(D)
	1-(D), 2-(C), 3-(A), 4-(B)
69	Calculate logarithmic decrement if damping factor is 0.33.
	1.36
-	3.23
-	5.16
	2.19
Alt4	2.19
70	Which of the following relations is true when springs are connected parallel? where K = spring stiffness
Alt1	K _e = K ₁ + K ₂
Alt2	(1 / K _e) = (1/K ₁) + (1/ K ₂)
Alt3	K _e = (1/K ₁) + (1/ K ₂)
Alt4	None of the above
71	What is the correct formula for absolute pressure?
	P _{abs} = P _{atm} - P _{gauge}
	P _{abs} = P _{vacuum} – P _{atm}
	P _{abs} = P _{vacuum} + P _{atm}
	P _{abs} = P _{atm} + P _{gauge}
Alt4	1 \sub>abs\sub> = 1 \sub>atti\sub> 1 \sub>gauge\sub>
72	Which current is used in Tungsten Inert-Gas (TIG) welding?
	Only A.C. can be used as welding current
	Only D.C. can be used as welding current
-	·
	Both A.C. and D.C. can be used as welding current
Alt4	Neither of them cannot be used
73	Calculate the number of teeth on wheel, when number of teeth on pinion and wheel are equal. Pressure angle is 25 ^o
Alt1	
Alt2	12
Alt3	7
Alt4	9
74	Which of the following are the cold working processes?
Alt1	Forging
	Bending
	Machining
	Pipe Welding
	<u> </u>
75	Blow holes in casting are caused by
	excessive moisture
	low permeability
Ait2	now permeability

Alt3	excessive fine grains
Alt4	all of the above
76	In metal cutting operation, maximum heat (i.e. 80-85%) is generated in
Alt1	the shear zone
Alt2	the chip-tool interface zone
Alt3	the tool-work interface zone
Alt4	the crater zone
77	The Laser Beam Machining process can be carried out, when the media for energy transfer between tool and
	work piece is
Alt1	
	liquid
	vacuum
Alt4	any of the above medium
78	The angle between side cutting edge and end cutting edge is called as
	approach angle
	nose angle
	side relief angle
Alt4	end relief angle
	Which of the following materials is/are used for Electrical Discharge Machining (EDM) process?
	Brass
	Copper
	Graphite All the above
AIT4	All the above
90	Which type of chips form while machining of brittle materials?
	continuous chips
	discontinuous chips
	Built-up chips
	Serrated chips
AIL4	Serrated onlys
Ω1	Which type of mechanism is used in shaper machine?
	Indexing mechanism
	Four-bar chain mechanism
	Quick return mechanism
	toggle mechanism
AIL4	CODDIC MEGNAMIAN
ደን	Which of the following can be considered as more compact efficient heat exchanger?
	Car radiators
	Stirling engine regenerator
	Ceramic regenerator in gas turbine
	Refrigeration unit
AIL4	nemperation unit

	Generally, natural convection occurs due to
	change in velocity of a fluid
	change in density of a fluid
	change in molecular structure of a fluid
Alt4	change in viscosity of a fluid
	The mixture of α-ferrite and cementite is called as
	Ledeburite
	Pearlite
	Bainite
Alt4	Austenite
	hun and a second of the second
	What is the crystal structure of δ-ferrite?
	Body centred cubic structure
	Face centred cubic structure
	Orthorhombic crystal structure
Alt4	Hexagonal crystal structure
86	What is the function of hydraulic motor?
	1. hydraulic motor converts hydraulic oil under pressure into torque and angular displacement
	2. hydraulic motor converts hydraulic oil under pressure into force and linear displacement
	3. hydraulic motor converts hydraulic energy into mechanical energy
	4. hydraulic motor converts mechanical energy into hydraulic energy
Alt1	1 and 4
Alt2	1 and 3
Alt3	2 and 3
Alt4). 2 and 4
	The angle between normal stress and tangential stress is known as angle of
Alt1	Declination
Alt2	Orientation
	Obliquity
Alt4	Rotation
	Erichsen cupping test is known as
88	Energen cupping test is known as
	creep test
Alt1	
Alt1 Alt2	creep test

	What is the ratio of amplitude of response to that of the input called?
	Response
	Gain
	Phase
Alt4	Frequency
	The smallest change in measured value to which the instrument will respond is called
	accuracy
	precision
	resolution
Alt4	sensitivity
01	Which offect is useful in measuring rapidly varying forces
	Which effect is useful in measuring rapidly varying forces Piezoelectric
	strain gauge Photovoltaic
AIL4	pneumatic gauging
92	One ton of refrigeration is equal to the refrigeration effect corresponding to melting of 1000 kg of ice
Alt1	in 1 hour
Alt2	in 1 minute
Alt3	in 24 hours
Alt4	in 12 hours
93	The vapour compression refrigerator employs the following cycle
Alt1	Rankine
Alt2	Carnot
Alt3	Reversed Carnot
Alt4	Brayton
94	Any point on a link connecting double slider crank chain will trace a
Alt1	straight line
	circle
	ellipse
Alt4	Parabola
95	A circular bar moving in a round hole is an example of
	incompletely constrained motion
	partially constrained motion
	completely constrained motion
Alt4	successfully constrained motion
96	The length AB of a pipe ABC in which the liquid is flowing has diameter (d1) and is suddenly enlarged to diameter (d2) at B which is constant for the length BC. The loss of head due to sudden enlargement is
Alt1	((V ₁ - V ₂)) ² /g

	((V ₁) ² - (V ₂) ² /g
Alt3	(V ₁ -V ₂) ² /2g
Alt4	((V ₁) ² - (V ₂) ²) ² /2g
97	Coefficient of contraction is the ratio of
Alt1	actual velocity of jet at vena contracta to the theoretical velocity
Alt2	loss of head in the orifice to the head of water available at the exit of the orifice
Alt3	actual discharge through an orifice to the theoretical discharge
Alt4	area of jet at vena contracta to the area of orifice
98	The meta-centric heights of two floating bodies A and B are 1 m and 1.5 m respectively. Select the correct
	statement.
Alt1	The bodies A and B have equal stability
Alt2	The body A is more stable than body B
Alt3	The body B is more stable than body A
Alt4	The bodies A and B are unstable
99	In time study, the rating factor is applied to determine
Alt1	standard time of a job
Alt2	merit rating of the worker
Alt3	fixation of incentive rate
Alt4	normal time of a worker
100	In inventory control theory, the economic order quantity is
Alt1	average level of inventory
Alt2	optimum lot size
Alt3	capacity of a warehouse
Alt4	lot size corresponding to break-even analysis