7. Martensite is a	question and to Warra Games Control of the Control
A) Stable phase with body centred tetra	gonal unit cell
B) Meta stable phase with body centred	I tetragonal unit cell
C) Meta stable phase with body centred	Cubic unit ceil
D) Stable phase with body centred cubic	c unit cell
2. Name the type of cast iron in which car	
flakes.	B) Malleable cast iron
A) White cast iron	D) Chilled cast iron
-C) Grey cast iron	Table (all and the control of the co
2. Due to its biocompatibility and properties alloys are extensively used as bone impl	ants?
A) Copper alloys	B) Aluminium alloys
*C) Micro alloy steels	D) Titanium alloys
	nine the
A. Jominy end quench test is used to determ	B) Ductility of a material
A) Hardness of a material	D) Brittleness of a material
C) Hardenability of a material	
5. A uniform circular solid shaft with diameter	er 2 cm is subjected to a torque of 40 Nm.
The shear stress in N/mm <sup>2</sup> at the periphe	
A) 80π B) 400π	C) 80/π · D) 160/π
. Which of the following relationships hold go	od among modulus of elasticity E, modulus
of rigidity G and bulk modulus K?	
A) $K = 9EG/(3E + G)$	B) $E = 9KG/(3K + G)$
C) $E = 6KG/(3K + G)$	D) G = 9KE/(2K + G)
	The state of the best on
A rectangular block of height H, length L	and depth D is rigidly fixed at the bottom
(length $L \times$ depth D face). When a tangent parallel to the length L, the linear deformat	ial force P acts at the top face of the block ion at the top is $\Delta L$ . What will be the shear
(length L x denth D face). When a tangent	ial force P acts at the top face of the block
<ul> <li>(length L × depth D face). When a tangent parallel to the length L, the linear deformat strain of the block?</li> <li>A) ΔL/H</li> <li>B) ΔL/L</li> <li>A square bar of 40 mm size is subjected</li> </ul>	ial force P acts at the top face of the block ion at the top is ΔL. What will be the shear  C) ΔL/D  D) None of these it to a sudden tensile load of 80 kN. The
<ul> <li>(length L × depth D face). When a tangent parallel to the length L, the linear deformat strain of the block?</li> <li>A) ΔL/H  A square bar of 40 mm size is subjected instantaneous stress in MPa induced in the parallel.</li> </ul>	ial force P acts at the top face of the block ion at the top is $\Delta L$ . What will be the shear  C) $\Delta L/D$ D) None of these is to a sudden tensile load of 80 kN. The ne bar will be
<ul> <li>(length L × depth D face). When a tangent parallel to the length L, the linear deformat strain of the block?</li> <li>A) ΔL/H</li> <li>B) ΔL/L</li> <li>A square bar of 40 mm size is subjected</li> </ul>	ial force P acts at the top face of the block ion at the top is ΔL. What will be the shear  C) ΔL/D  D) None of these it to a sudden tensile load of 80 kN. The

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(9.) Which of the follow	owing are true for auster	nite?	
i. It is a solid so	plution of iron, carbon an	d chromium	
ii. It has FCC cr		and Advisor	And the second
iii. It is stable at	room temperature		
TV. Pure austenit	e is stable in the temper B) ii and iii	C) i and iv	1394°C 'D) ii and iv
10. Which of the fol solubility?	lowing statements agre	e with the Hume-Rot	hery Rules for solid
b) Gryslai Struct	rence between solvent ure of both the materials	s must be different	
C) There should	be large difference in e	lectronegativity of the	materials
D) The valency	of the atoms of the mate	erials must be different	materials
	on, which of the followin		
A) Liquid + $\delta$ -fer	rite ↔ Austenite		
C) Liquid ↔ Aus	stenite + Cementite	D) Ferrite $\leftrightarrow$ Auste	Ferrite + Cementite enite + Cementite
12. The case harder	ning technique suitable f	or steels with very low	carbon content
A) Cyaniung	and a second second	B) Induction harde	enina
C) Electron bea	m hardening	D) Flame hardenir	
43. What will be the	section modulus of a re	ctangular beam with a	breadth of 6 cm and
depth of 2 cm? A) 4 cm <sup>3</sup>	THE RESERVE OF THE PARTY OF THE	THE PERSON NAMED IN THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS	March March (1997)
	B) 12 cm <sup>3</sup>		D) 1 cm <sup>3</sup>
14. For the shear for correct ?	orce S and bending mon	nent M of a beam, whi	ch of the following is
A) $M = \frac{dS}{dx}$	B) S_dM	C) W d <sup>2</sup> S	d214
dx	B) $S = \frac{dM}{dx}$	C) $M = \frac{d^2S}{dx^2}$	D) $S = \frac{d^{1}N}{dv^2}$
45. What will be the	deflection in most the cor		
when a point loa	deflection in m at the cer ad of 36 kN is applied at	the centre (where E.	ed beam of span 2 m
·A) 6E <i>l</i>	B) 12E <i>l</i>	C) 6/E/	
	May - us - 1		D) 12/E/
The Euler's theo	ory of columns is valid w	hen the	
i. Slenderness	ratio is greater than or	equal to $\sqrt{\frac{\pi^2 E}{\pi}}$	
ii. Crushing stre	ess is ≥ buckling stress	γ O <sub>6</sub>	
iii. The column		Cathagain at Mark	
	ess is < buckling stress		
A) i and ii		C) i il and ill	D) ""
ry Tanu II	B) i and iv	C) i, ii and iii	D) iii and iv

17.	Which of the following statements is true with A) APF of FCC is equal to APF of HCP	ith regard to Atomic Packing Factor (APF)?
	B) APF of SC is greater than APF of BC	C see announce
	C) APF of BCC is greater than APF of H	
	D) APF of BCC is equal to APF of FCC	
7		nerootly 2
18.	Which of the following pairs is matched of	ortiol planes
	A) Surface defect – Presence of extra pa	
	B) Point defect - Precipitates	SHADE BEARING DISCOURSE WAS AND
	C) Line defect – Grain boundary	PROGRAM AND
	D) Volume defect – Slag and porosity	
<b>19</b> .	Which of the following is true for Burger's	s vector in edge dislocation?
	A) Perpendicular to the dislocation line	B) Parallel to the dislocation line
	C) Inclined to the dislocation line	D) None of these
20.	wood on a stoody state diffusion membr	ess and cross-sectional area of 0.25 m <sup>2</sup> is ane in a hydrogen purifier. Find the mass $f$ the difference in hydrogen concentration sion coefficient is $1 \times 10^{-8}$ m <sup>2</sup> /s.  C) $5 \times 10^{-7}$ D) $3 \times 10^{-6}$
21.	Which of the following statements are true t	for Mohr's circle in a plane stress condition?
	i. Maximum shear is at the top and bott	
	ii. The maximum shear stress is equal to	
	iii. The principal stresses are located at	the horizontal axis where shear is zero
	iv. The maximum shear stress is equal t	
	A) i and iv	B) i, ii and iii
- F-18-24	C) iii and iv	D) All the above
22.	A metallic cube of side 5 cm is triaxially and 100 kN compressive load in the x, y at ratio is 0.25 and the Young's modulus is A) -330/E C) 410/E	loaded with 50 kN and 75 kN tensile loads and z directions, respectively. If the Poisson's E N/mm², the volumetric strain will be 'B) 300/E  D) 330/E
22	For a contilover beam of length I with I	iniformly distributed load w/unit length and
28.	a point load of W at the free end, the ber	nding moment at a distance x from the free
	end is given by	2/4 14/4
	A) $wx^2/8 + Wx^2$ B) $wx^2/2 - Wx$	'C) $wx^2/4 + Wx$ D) $wx^2/2 + Wx$
		<b>E</b> .

	A metallic rod of unif and Young's modul rise is ΔT, the therm	us E is constrained	between two rigid w	t of thermal expansion ovalls. If the temperature
	Α) ΕαΔΤ	'Β) Εα/ΔΤ	C) αΔΤ	D) ΕαΔΤ <sup>2</sup>
E	In Carnot cycle, the A) constant pressur B) constant volume C) constant tempera D) partly at constan	re ature	es at y at constant volume	
A B C	Which of the following a reversible adial an isentropic process an irreversible acts of entropy decreases.	patic process is an cess is an adiabatic liabatic process is a	isentropic process	ocess ss
-27. F	For the same compr Otto cycle compared	ession ratio and head to that of a Diesel	at supplied, the air sta	andard efficiency of an
4	A) less	B) equal	C) more	D) unpredictable
	If an axial flow com then the area of ann A) remain the same C) progressively inc	ulus of the succeed	for a constant velocing stage will  B) progressively D) depend upon	2. 不是是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一
A	Increasing the numlexpansion tending  A) isothermal  C) adiabatic	to suffer soft of	ges in a gas turbine  B) isobaric  'D) reversible adia	to infinity makes the
h	A refrigerator workin leat pump and cons a) 1 kW			of 4.5. If it works as a D) 5.5 kW
A C	ccurs for  superheated cycle  reheat cycle	e francisco nels	B) saturated cycl D) regenerative of	cycle
b	The steam engine parending is called  orankshaft	art which guides mo B) cross head	otion of the piston roo C) valve rod 9	d and prevents it from  D) eccentric

B

33.	20 kJ/kg and 40 kJ/	tion turbine, the hea /kg respectively. Th B) 2/39	at drops in the fixed and degree of reaction for the control of th	nd moving blades are or this stage will be D) None of the above
	A) 1/2			
.34.	In aqua ammonia ar	nd Li-Br water absorp	tion refrigeration system	ns, the retrigerants are
	A) water and water		B) water and Li-	
	·C) ammonia and L	i-Br	D) ammonia and	water
35	During chemical de	humidification proce	ess of air violence	nove en in it is
50.	A) dry bulb temper	ature and specific h	umidity decrease	STREET, TREETER LYCLESON
	B) dry bulb temper	ature decreases an	d specific humidity inc	reases
	C) dry bulb temper	ature increases and	specific humidity dec	reases
	D) dry bulb temper			The second of the
	THE RESERVE TO	<b>特殊者 原料</b>	Chillian and	MAN THE PROPERTY OF THE
(36)	An increase in fin e	ffectiveness is caus	ed by high values of	March Comment
	1. convective coef	ficient	TOPE AND MODE THE QUARTE	CORP. No. of the New
	2. thermal conduc	tivity and an vor	ety. For mesimum em	
	3. cross sectional		150 A 4 (6)	
	4. circumference			
	Identify the correct	statement.	eror Desetional sen	
	A) 1 and 3	16174	→B) 2 and 3	Particular IA
	C) 3 and 4	romen i moint i	D) 2 and 4	Service Control
<i>3</i> 7.	Change in enthalpy	in a closed system	is equal to heat trans	ferred, if the reversible
	process takes place			
	A) temperature	B) internal energ	gy C) entropy	·D) pressure
		Latuson tomperatu	res limits of 900 K and	T <sub>2</sub> and another engine
<i>-</i> 38.	An engine operates	petween temperatu	oth engines to be equa	ally efficient, T <sub>2</sub> should
		12 and 400 K. I of b		HIC TO THE POST OF SHEET TO
	be equal to	CATET GIE	·C) 625 K	D) 700 K
	A) 650 K	B) 600 K	A STANDARD SERVICE CONTRACTOR OF THE SERVICE	Date When a small ser in
20	The throttling of co	rtain gases may be	used for getting the re	efrigerating effect. The
09,	value of Joule coef	ficient (u) for such a	process is	
	'A) $\mu = 0$	B) u = 1	C) $\mu > 1$	D) μ<0
			TOWN AND AND A STATE OF	
40.	The ratio of hydrod	lynamic to thermal b	oundary layer thickne	ss varies as
	A) root of Prandtl I	number	B) one-third of F	Tariuli Tullibei
	C) two-third power	of Stanton number	D) four-fifth pow	er of Nusselt number

41	WHO COS THE	flow heat exchanger, colon fluid enters at 150°C a	ld fluid enters at 30°C and leaves at 130°C. T	and leaves at 50°C
	difference for A) 20°C	this case is		200 sp. 200 sp
	·C) 100°C		B) 80°C	
		The state of the s	D) indeterminate	
.42	A) pressure of B) pressure in C) increase in	flow through a nozzle, to ge the flow direction decreases, velocity increa ncreases, velocity decrea n both pressure and veloc creases and pressure ren	ises ises	
43	The volumetri	o officiary	are a second contract of the second contract	
.0.	A) 40 - 50%	c efficiency of a well-desi	gned SI engine lies in t	he range
	71) 40 – 30%	B) 51 – 60%	·C) 61 – 70%	D) 71 – 90%
<b>4</b> 4.	. In two-stage r	reciprocating air compresespectively. For maximum	sor, the suction and de	elivery pressures are bler pressure is
		B) 2.5 bar	C) 2 bar	'D) 1.5 bar
45	<ul> <li>Which parameter in the polytrop</li> </ul>	eter can be considered to pic equation pv <sup>n</sup> = Consta	remain constant if the	value of exponent n
	A) enthalpy		'B) internal energy	
	C) entropy		D) pressure or vol	
46	As differential	s heat and work would be	A secondarian	
70.	A) exact	s, heat and work would be B) discontinuity		Service Control of the Control of th
		700 data	THE PROPERTY OF	·D) point function
<i>4</i> 7.		ective pressure of an Otto	cycle is	
	A) Independe	nt of pressure ratio	<b>2016</b> ansigning days	
	B) Inversely p	proportional to pressure ra	tio	
	C) Proportion	al to the square root of pr	essure ratio	
	D) Directly pro	oportional to pressure rati	0	
<i>4</i> 8.	The thermodyr	namic property which is ex of other measurable prop	valuated with the help of erties of a system is	Maxwells equations
	A) entropy	B) enthalpy	· C) specific heat	D) latent heat
<b>4</b> 9.	Which one of t constant?	he following gases will ha	ve the maximum value	of characteristic gas
	A) oxygen	B) nitrogen	C) carbon dioxide	D) sulfur dioxide

- 50. For a heat engine operating on Carnot cycle, the work output is 25% of the heat rejected to the sink. The thermal efficiency for the engine would be
  - A) 10%
- 'B) 50%
- C) 30%
- D) 20%

in the first are the color triple with At (A)

March and Son America

- .51. As per common design practices, the three types of hydraulic turbines in descending order of flow rates are
  - · A) Pelton, Francis, Kaplan
- 4
- B) Francis, Kaplan, Pelton

C) Pelton, Kaplan, Francis

- D) Kaplan, Francis, Pelton
- 52. A draft tube is not required for a
  - A) Francis turbine

B) Kaplan turbine

C) Pelton wheel turbine

D) None of the above

- 53. A pitot-static tube measures
  - A) Dynamic pressure
  - B) Difference in static and dynamic pressure
  - 'C) Static pressure
  - D) Atmospheric pressure
- 54. For steady incompressible three-dimensional flow, the continuity equation is given as

A) 
$$\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} = 0$$

B) 
$$\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial w}{\partial z} = 0$$

C) 
$$\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial w}{\partial z} = \frac{\partial p}{\partial t}$$

- D) None of the above
- .55. Moody's chart is used to determine the
  - 'A) Reynolds number

B) Nusselt number

C) Friction factor

- D) Surface tension
- 56. Specific speed of a centrifugal pump is
  - A) N√QH<sup>3</sup>

B) N<sup>2</sup>√QH<sup>3</sup>4

°C) N√QH4

- D) N√Q H<sup>3</sup>
- 57. For a completely submerged body with center of gravity 'G' and center of buoyancy 'B', the condition of stability will be pressure
  - A) G is located above B

- B) G is located below B
- C) G and B are coincident
- D) None of the above

(58) C	Consider the turbulent flow of a fluid thro he correct pair of statements.	ough a circular pipe of diameter, D. Identii
2	Fluid is well mixed  Fluid is un mixed	.000
73	Reynolds number to the state of	with the second of the second
4	Reynolds number less than 2300	
A	Reynolds number greater than 2300.	and the second of the second of the second
	Gottes owners a reserve or	C) 2, 3 D) 2, 4
-59. A	flow field which has only convective ac	3 Petron France
	, risteady utiliotti flow	
C	A steady non uniform flow	B) An unsteady uniform flow D) All of the above
	urface tension is due to	6 odtu) worw prosper
Δ)	Adhesion	Controller Carrier State Controller Party
		'B) Gravity and adhesion
C)	Stagnation pressure	D) Cohesion
		direction (x-direction) in a static fluid i
Δ	$\frac{\partial \mathbf{p}}{\partial \mathbf{r}} = 0$	=, an = avusasta aneridestità (C
	$0 = \frac{q6}{x6}$ and flow, the continuity equation is given a	B) $\frac{\partial p}{\partial x} = g$
U	$\frac{\partial \mathbf{p}}{\partial \mathbf{x}} = -\mathbf{g} \qquad 0 - \frac{\sqrt{6}}{\sqrt{5}} + \frac{\sqrt{6}}{\sqrt{5}} + \frac{\sqrt{6}}{\sqrt{6}}  (2).$	• D) $\frac{\partial \mathbf{p}}{\partial \mathbf{x}} = \rho \mathbf{g}$
		· .
	he Newton's law of viscosity relates	
	The shear stress and rate of shear stre	ain
	The stress and strain in a fluid	ell, allumatap of pash & usus (syboly).
C)	The second of th	tedmusi adoqye a ta
D)	The shear stress, gravity and viscosity	To be set of the set o
63. Ma	atch the following.	Sperim speed of a centrifugal pump is
	P 40, 70 (8	Q HITTHE
i.		are intersecting at an angle
ii.	A CONTRACTOR OF THE PROPERTY O	mate straight-line mechanism
iii.		peed reduction
	syoud to raine a brab 'E' yelvely, 'Co-axia	·
		traight-line Mechanism
A)	Pi – Qiii, Pii – Qiv, Piii – Qi	B) Pi – Qiii, Pii – Qiv, Piii – Qv
	Pi – Qiii. Pii – Qi Piii – Qiianoid (O	D) Pi – Qiii, Pii – Qi, Piii – Qv

64. A cantilever beam with length L, moment of inertia of cross section I with respect to the neutral axis, and modulus of elasticity E carries a machine of weight W at its free end. Neglecting the mass of the beam, what is the frequency of free vibration of the system?

A) 
$$\omega_n = \sqrt{\frac{3Elg}{Wl^2}}$$

·B) 
$$\omega_n = \sqrt{\frac{Wl^3}{3Elg}}$$

C) 
$$\omega_n = \sqrt{\frac{Wl^3}{48Elg}}$$

D) 
$$\omega_n = \sqrt{\frac{3Elg}{Wl^3}}$$

- 65. The outside diameter of a hollow shaft is double the inside diameter. The ratio of the torque carrying capacity to that of a solid shaft of the same material and of the same outside diameter is
  - A) 1/16

B) 1/2

·C) 15/16

- D) 3/4
- .86. The tearing efficiency of a riveted joint is 80 percent, then the ratio of the rivet hole diameter to the pitch is equal to
  - A) 0.25

B) 0.2

C) 0.3

- D) 0.4
- A flywheel connected to a punching machine has to supply energy of 320 Nm which is running at a mean angular speed of 20 rad/s. If the total fluctuation of speed is not to exceed  $\pm$  2%, the mass moment of inertia of the flywheel in kg m<sup>2</sup> is
  - A) 25

B) 20

C) 30

- D) 40
- .68. The swaying couple is maximum or minimum when the angle of inclination in degrees of the line of stroke is equal to
  - A) 180 and 315

B) 225 and 135

C) 225 and 45

- D) 180 and 225
- 69. The principal stresses of a two dimensional state of stress are  $\sigma_1$  and  $\sigma_2$ ,  $\sigma_1$  is greater than  $\sigma_2$  and both are tensile, then which one of the following would be the correct criterion for failure according to maximum shear stress theory?
  - A)  $\sigma_1/2 = \pm \sigma_y/2$

B)  $\sigma_1 = 2\sigma_v$ 

C)  $\sigma_2/2 = \pm \sigma_V/2$ 

'D)  $(\sigma_1 - \sigma_2)/2 = \pm \sigma_v/2$ 

76. The slider 2 moves inwards with a velocity of v along a link 3 which is rotating clockwise with an angular velocity  $\omega$ . The magnitude and direction of the Coriolis acceleration is



A) ων

- 'B) 2ων

- 71. Oldham's coupling is an inversion of
  - A) Four bar chain
- B) Slider-crank chain
- C) Double slider crank chain D) Five link chain
- 72. Which of the following statements are true?
  - i. Interference occurs in involute gears.
  - ii. Involute profile gears are easy to manufacture.
  - iii. With involute tooth form, the centre distance errors do not affect the velocity ratio.

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A) i and ii only

B) ii and iii only

C) i and iii only

- D) i, ii and iii
- 73. With the decrease of governor speed
  - A) Radius of rotation decreases but the height of it increases
  - B) Radius of rotation and height of it decreases
  - C) Radius of rotation and the height of it increases
  - D) Radius of rotation increases but the height of it increases
- 74. Given that T<sub>1</sub> and T<sub>2</sub> are the tensions on the tight and slack slide of the belt respectively, the initial tension of the belt taking the account of centrifugal tension T<sub>c</sub> is equal to
  - A)  $(T_1 + T_2 + T_c)/2$
- B)  $(T_1 + T_2 + 2T_c)/2$
- C)  $(T_1 + T_2 + T_c)/3$

- 'D)  $(T_1 + T_2 + 2T_c)/3$
- 75. A single plate clutch having single side friction has outer and inner diameters of 100 mm and 40 mm respectively. Assuming a uniform pressure of 2 MPa and coefficient of friction of the liner material is 0.4, the torque carrying capacity of the clutch is
  - A) 150 Nm
- B) 372 Nm
  - C) 196 Nm

<i>7</i> 6.	The life of a ball bear	ing at a load of 10 kN	is 8	000 hrs. Its life in	hou	irs if the load is	5.
	increased to 20 kN, k A) 1000	eeping all other condi B) 2000		s the same, is 500	·D)	4000	
77	A main advantage of	ECM over EDM is tha	t t			ANTENNA DE	
	A) it can cut harder n     C) it consumes less p	naterial	·B)	it is more accura its tool wear is no			
<b>7</b> 8.	Which one of the follo	wing is the most accu	ırat	e instrument ?		Common (C	
	A) Optical projector	Annual Control of the		Slip gauge		and the second	
	C) Screw gauge	arrange a conf.	D)	Vernier caliper		neter sensett (4	
<i>7</i> 9.	For a CNC machining	process, which of the	e fo	llowing is not app	licat	ole?	
	A) Close tolerances r		B)	Part geometry is	con	nplex	
	·C) Design changes a	re frequent	D)	No inspection is	requ	uired	
<b>.80</b> .	In the context of industrace-to-face relations	strial psychology, the hips with each other a	gro	ups where the inc	bivit	luals are in	)
	·A) Primary groups			Secondary grou	ps	THE HOLDER	
	C) Working groups	8	D)	Quality circle	er.	THE STATE OF	the.
<i>8</i> 1.	In a bath tub curve, the in the design and acci				lim	itations inhere	ent
	A) Random failure zo		CALL STATE	Secondary failur			
	C) Wear out failure zo	one That id.	D)	Infant mortality 2	one	an areason	
	C) Merging project or	created by taff organisation ganisation with functi ganisation with militational organisation wit	ona ry o	rganisation	111	in binockilliki n Ulik Universityi ek	
<b>8</b> 3.	In sand casting proc additional parts are ca	ess, when the mold	cor	nsists of more th		ACKNOWN TO A COLUMN	ie
	A) Foundations	B) Cheeks	C)	Necks with the control of the contro	D)	Copes	è,
84	Cores are employed	n castings to		. (chipe (e) va tin	igoty en	or to supplied to	
	A) Make desired rece	ess in castings	B)	Save moulding	and	ina telloft (A	1
	C) Strengthen the ca	sting The C	D)	None of the abo	ve	recorder and (C	1

В

85. Which one of the following is the strong	gest among the following brazing joints?
A) Inclined B) Lap	C) Butt ·D) V-butt
,86. In production planning and control, load	ding means
'A) Maximum utilisation of the facility	The second of th
B) Assigning jobs to work centres	state of the contract of the c
<ul><li>C) Determining the time required for ea</li></ul>	ach operation
D) Giving work orders for initiating the	work
87. The selective inventory technique ABC	dives importance to
A) Items which are rare	B) Items which are critical
C) Value of the items	D) Demand for the items
AGENTAL SHEET	
88. In operations research, Hungarian meth	nod is used to solve
A) Queuing problems	B) Assignment problems
·C) Transportation problems	D) Game theory
89. Seam welding is a day who have a	
A) Single spot welding process	B) Arc welding process
C) A type of stud welding	D) Continuous spot welding process
90. Hot forging is used for producing	euvelone Think pay inter-
A) Piston	B) Crankshaft
C) Carburettor	D) All the above
91. In ultrasonic machining process, the me with	
A) Higher toughness	B) Higher ductility
C) Lower toughness	D) Higher fracture strain
92. A type of company which is being managed	
A) Joint Stock Company	B) Private Limited Company
C) Public Limited Company	(1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
93. The type of conveyor most suitable for m	noving granular materials
A) Roller conveyor	
C) Bucket conveyor	D) Fork truck

9	4. W	hich one of the following is not an elemen	nt in	the factor comparison method of job
		aluation?		
	A)	Physical effort	B)	Skill
	C)	Responsibility	D)	Employee worth
8	5. An	nong the conventional machining processe	s, n	naximum specific energy is consumed in
		Turning	<b>B</b> )	Drilling
	24 (3c of 1 by c	Planing	D)	Grinding
.96	S. Pla	ain milling of mild steel plates produces		
		Irregular shaped discontinuous chips		
	-	Regular shaped discontinuous chips		
		Continuous chips without built up edge		
	D)	Jointed chips		
-97	. The	e NC system which is applicable to a mi	lling	machine is called the
		Point to point system	B)	Continuous path system
		Zig-zag machining system	D)	Contour system
QA	The	e type of layout suitable for simpler prod	ucti	on scheduling, high volume of output
	and	I high labour efficiency is		
		Fixed position layout	B)	Product layout
	The state of the s		, D)	Combination layout
				bio of
<i>,</i> <b>9</b> 9.	AS	IMO chart is used for studying the relat		
		Operator and machines	200	Operator and materials
	C) [	Different limbs of an operator	D)	Time and motion of operators
100.	Brea	ak-even point gives the production leve	l at	which annual?
	A) (	Contribution is equal to fixed cost		
	,B) E	ixed cost is equal to variable cost		
	C) 1	Sales revenue is equal to variable cost		
	C) S	Dates revenue is equal to fixed cost		
	D) 5	Sales revenue is equal to fixed cost		