Gaddia

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DOCTORS.



1.	Job evaluation is the method of determin	ing the)
	(1) relative worth of the jobs	(2)	Skills required for the worker		
	(3) contribution of worker	(4)	contribution of a job		
2.	Gantt chart provides information about			()
	(1) material handling	(2)	proper utilization of man power		
	(3) production schedule	(4)	efficient working of machine		
3.	ABC analysis deals with			()
	(1) analysis of process chart	(2)	flow of material		
	(3) ordering of schedule of job	(4)	controlling inventory costs		
4.	Break even analysis consists of			()
	(1) fixed cost	(2)	variable cost	Sittem Habitati	
	(3) fixed and variable cost	(4)	operation cost	1343 40 3-1994	
5.	Basic tool in work study is			()
	(1) graph paper	(2)	process chart		
	(3) planning chart	(4)	stop watch		
6.	PERT and CPM are		use with the second sec	()
	(1) techniques to determine project stat	üs			
	(2) decision making techniques				
	(3) charts which increase aesthetic appo	earance	of rooms		
	(4) not decision making techniques				
7.	CPM is the			.()
	(1) time oriented technique	(2)	event oriented technique		
413	(3) activity oriented technique	(4)	target oriented technique		
8.	Product layout is employed for			()
	(1) batch production	(2)	continuous production		
	(3) effective utilization of machine	(4)	all of the above		
9.	Simplex method is used for		No. (Structure grown was 1997)	()
	(1) Linear programming	(2)	Quenching theory		
	(3) Network analysis	(4)	Value engineering		

CEI	2009 QUESTION PAPER *** *** *** *** ***	100 SERVER 1000	SE SERVICE SERVICE TOTAL TRANSPORT PRODUCE SERVICES SERVICES SERVICES	989998	
10.	MIS stands for			()
	(1) military inspection scheme	(2)	management information system		
	(3) management intelligence system	(4)	management information service		
11.	Propeller shaft is a link between the follow	wing		(.)
	(1) gear box and differential	(2)	engine and gear box	*	
	(3) differential and road wheels	(4)	engine to road wheels		
12.	Universal joint connects			()
	(1) engine to gear box	(2)	engine to propeller shaft	nerine alfred	
	(3) gear box to propeller shaft	(4)	engine to differential gear box		
13.	Differential gear mechanism is introduced	in auto	omobiles to enable	()
	(1) Climbing up steep gradient		Climbing down the steep gradient		
7,21	(3) Negotiating left or right turn	(4)	Extra grip on the road	4	
14.	Camber angle is provided on			()
	(1) front wheels	(2)	rear wheels		
	(3) pinion gears	(4)	crown gear	6 (10) 6 (10) 6 (10) 6 (10)	again.
15.	Steering gear box employs the following			(.)
	(1) one spur and one bevel gear	(2)	two spur gears		
	(3) rack and pinion	(4)	worm and worm wheel		
16.	Which of the following properties are und	lesirable	e to brake fluid?	()
	(1) anti-corrosive	(2)	high viscosity		1.0
	(3) low freezing point	(4)	high boiling point		
17.	Crown-nut pinion gear mechanism is rela	ited to		()
	(1) steering gear box		high speed gear box		
	(3) differential gear	(4)	drive shaft and wheel		
18.	Acherman mechanism is related to			(.)
	(1) differential gear mechanism	(2)	steering mechanism		
and the s	(3) braking mechanism	(4)	cooling mechanism		
19:	To increase the maneuverability of vehicle	e the fo	llowing is desirable	. ()
	(1) smaller wheels	(2)	larger wheels		e i
	(3) larger turning radius	(4)	smaller turning radius		
20.	King pin is related to the following			()
	(1) front axial	(2)	rear axial		Ť.
	(3) universal joint	(4)	differential gear		
	0.50 - 60 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	1	09)		
The state of the s	The state of the s				

21. The clearance between two surfaces in contact is checked by (1) Surface gauge (3) slip gauge (4) dial gauge 22. External gaper on the component is measured accurately by (1) dividing head (2) sine-bar (3) try square (4) micrometer 23. The commonly used work-holding device on Capstan lathe is (1) Three jaw chuck (2) Four jaw chuck (3) Collect chuck (4) Hydraulic chuck 24. Reaming of the holes is done for (1) finishing the hole (3) obtaining taper (4) closing the hole (3) obtaining taper (4) closing the hole to is known as (1) trepanning (2) under cutting (3) counter boring (4) spot facing 26. Size of shaper is specified by (1) length of the stroke (2) size of table (3) ratio of forward and return stroke angles (4) H.P. of motor 27. The profile of the template is duplicated on the jobs in (1) column and knee milling m/c (3) Pantagraph milting m/c (4) Planetary milling m/c (3) Pantagraph milting m/c (4) Planetary milling m/c (5) 0.033 mm (6) 0.044 mm (7) 0.044 mm (8) 0.044 mm (9) In NC part programming, preparatory function is represented as (1) M (2) G	HANICAL ENGINEER	ING
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29. In NC part programming, preparatory function is represented as (1) M (2) G		
(1) M (2) G	C	1
(3) S (4) F		
30. Automated Guided Vehicles (AGV) are used in	()
(1) CNC (2) DNC	dm (teres a 18	
(3) NC (4) FMS		

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31.	Pro	jection welding is		and the state of t	()
	(1)	Arc welding	(2)	Gas welding		
	(3)	Submerged welding	(4)	Resistance welding		
32.	The	voltage supplied between electrodes in	resis	tance welding is	()
	(1)	1 V	(2)	10 V		
	(3)	100 V	(4)	230 V		
33.	In g	gas welding maximum temperature occur	rs at		()
	(1)	The inner cone	(2)	The tip of flame		
	(3)	The outer cone	(4)	Next to inner cone		
34.	The	instrument, Dilatometer is used to find	the f	ollowing parameter	()
	(1)	permeability	(2)	moisture content		
	(3)	hot strength	(4)	compactness	1000 V	
35.	Stro	ongest components are produced by the	follo	wing process .	()
	(1)	Rolling	(2)	Forging	E BOYAN SOMOONE YOUR LO	Service Contract Cont
	(3)	Extrusion	(4)	Casting	SERVICE STATES	
36.	Swa	iging is an operation of			()
	(1)	extrusion	(2)	drawing		
	(3)	rolling	(4)	forging		
37.	Peri	meability of moulding sand is increased l	оу 🥞		()
	(1)	Round shaped grains	(2)	Finer grains		
	(3)	Coarse grains	(4)	Pure silica grains		
38.	Rap	ping allowance is created on the pattern	s to t	ake care of	()
	(1)	distortion	(2)	easy withdrawals		
	(3)	shrinkage	(4)	machining		
39.	Sea	mless tubes in mass production are man	ufact	ured by	()
NA	(1)	extrusion	(2)	spinning		
	(3)	rolling	(4)	drawing		
40.	In d	rawing operation the metal flows due to			()
	(1)	work hardening	(2)	shearing		
	(3)	plasticity	(4)	yielding		
41.		process of heat-treatment in which heati arbide is called	ng ar	nd cooling produces a rounded or globular	for	m)
	(1)	Normalising	(2)	Nitriding		
	(3)	Spheroidising	(4)	Ultra hardening		
						27

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42.	Deterioration of material with time at	constant stress is called	()
	(1) fatigue	(2) tensile failure		
	(3) toughness	(4) creep		
43.	Sulphur present in steels lead to	MARK SECTION OF THE STATE OF THE SEC	()
	(1) plasticity	(2) hot shortness		
35	(3) corrosion resistance	(4) cold shortness		
44,	The metal used as binder in cemented	carbides is	·()
	(1) Cobalt	(2) Nickel		
	(3) Carbon	(4) Vanadium		
45.	The commonly used material is sliding	g contact bearings is	()
	(1) Steel	(2) Gun metal		
	(3) Aluminium	(4) Zinc	4	
46.	A simply supported beam of length 's bending moment will be	I is subjected to a point load at mid span, the	e shape (of)
	(1) rectangle	(2) trapezium		
	(3) triangle	(4) parabola	Carpin V Lavados Cassaro	
47.	If equal and opposite forces act on a b	oar subjected to elongate it, the stress develope	d is call	ed
			()
	(1) internal stress	(2) tensile stress		
	(3) compressive stress	(4) hoop stress		
48.	If a bar expands freely due to heating,	it develops ·	()
	(1) thermal stresses	(2) tensile stresses		
	(3) compressive stresses	(4) no stress		
49.		o suddenly applied load, when compared to	when it	is
	applied gradually is		()
	(1) same	(2) two times		
	(3) four times	(4) half		
50.		ion about the axis through its centre of gravity	is () .
Secondary Secondary Secondary	(1) $\pi d^3/16$	(2) $\pi d^3/64$		
	(3) $\pi d^3/8$	(4) $\pi d^3/32$		
51.	Jockey pulley in the belt drives is used	to	()
	(1) tighten the bell	(2) increase velocity ratio		
	(3) keep the belt in position	(4) increase angle of lap		
52.	In belt drive transmission maximum in	itial tension occurs at	()
	(1) maximum power speed	(2) starting		
	(3) stopping	(4) minimum power speed		

CET	2009 QUESTION PAPER *** *** *** *** **** **** ****	1886 1885 1886			13
53.	The cross-section of V-belt drive will be		er de la management de la company	(-)
	(1) trapezoidal	(2)	triangular		
	(3) inverted triangle		rectangular		
54.	If the tensions in a belt drive are 1200 N	and	800 N, while the velocity of the belt	drive	is
	30 m/s, the power transmitted as		λ	()
	(1) 12 kW	(2)	1.2 kW		
	(3) 36 kW	(4)	24 kW		
55.	If two springs are arranged in parallel, their	over	all stiffness will be	()
	(1) same	(2)	half	**	
	(3) double	(4)	four times		
56.	Universal coupling is generally used to trans	smit	San a service of the train week	()
	(1) when the misalignment is present		ALALIA MARKANIA		
	(2) when the axes are not in alignment		German K Kosa,	selfel.	
	(3) as rigid coupling		Dismilant your bad.		
	(4) when the axes intersect at small angle		040-629000 1855524		
57.				((m)
57.	(1) Automobiles	(2)	Cranes	931	
	(3) Electric motors	(4)	Machine tools		
58.	tokan an	re by		(-)
20.	(1) spur gears		helical gears		
	(3) herringbone gears	(4)	worm gears		
59.	* O - 11	pling	2 2	()
37.	(1) Bushed pin	(2)	Universal		
	(3) Muff	(4)	Oldham		
60.		is use	ed for non-parallel and non-intersecting	shafi	ts?
00.	When of the following g		was a second of the second of the second	()
W 3	(1) spur gears	(2)) worm gears		
	(3) helical gears	(4			
61	. In isothermal process the heat transfer wil			()
61	(1) equal to work done	(2) less than work done		29~ mar
9	(3) more than work done	(4	, , ,		
60	If a gas vapour is allowed to expand throu			is cal	led
02	at a gas vapour is anowed to supure	0		()
	(1) free expansion	(2) throttling		
) hyperbolic expansion .		
-				()
63			minimum	21	
	(1) maximum		The part of the pa		94
	(3) negative	(4	zero		
	### ### ### ### ### (EC	ET 2	009)		

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64.	In	a Carnot cycle, heat is transferred at		and the second flags of the Best Cal	()
	(1)	constant temperature	(2)	constant pressure		
	(3)	constant volume	(4)	constant enthalpy		
65.	A	process which undergoes energy loss due	e to f	riction is called	(•)
	(1)	Isentropic operation	(2)	Reversible operation		. 46
	(3)	Adiabatic operation	(4)	Irreversible operation		
66.	Wł	nich of the following is not an extensive	prope	erty?	()
14	(1)	enthalpy	(2)	entropy		
	(3)	density	(4)	internal energy		
67.	The	e process of converting a liquid into fine	drop	lets by spraying is called	()
	(1)	Vapourisation	(2)	Ionisation		
	(3)	Atomisation	(4)	Injection		alt-
68.	Sup	percharging is very much needed in			()
	(1)	diesel engines	(2)	aircraft engines	edami	
	(3)	petrol engines	(4)	gas turbines	digrass.	
69.	Ign	ition quality of petrol is expressed by			***************************************)
	(1)	Cetane number	(2)	Calorific value		
	(3)	Octane number	(4)	Self ignition temperature		
70.	Me	thod of governing used in petrol engine i	S		()
	(1)	quality governing	(2)	partial governing		
	(3)	hit and mis governing	(4)	quantity governing		
71.	A tı	urbine is a device which converts			()
	(1)	Hydraulic energy into mechanical energ	y			
	(2)	Mechanical energy into hydraulic energ	у			
	(3)	Kinetic energy into mechanical energy				
	(4)	Electrical energy into mechanical energ	у			
72.	Fan	cis turbine is			()
	(1)	an impulse turbine	(2)	a radial flow impulse turbine		
	(3)	an axial flow turbine	(4)	a reaction radial flow turbine		
73.	Spec	ed ratio is given by		Straight of the straight of th	()
	4	u		V_f		
	(1)	$\sqrt{2gH}$	(2)	$\frac{v_f}{\sqrt{2gH}}$		
		ed aged to all all months are		gode som stem brownst - I		
	(3)	$\sqrt{2gH}$	(4)	$\frac{v_w}{\sqrt{2gH}}$	¥	
	(-)	$v_{\mathbf{f}}$	(ד)	√2gH		

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74.	Draft tube is used for discharging water from	n th	e exit of	()
	(1) An impulse turbine	(2)	A Francis and Kaplan turbine		
	(3) A Propeller turbine	(4)	A Pelton wheel		
75.	Main characteristic curves of a turbine mean	ıs	an english in the water of the state.	()
	(1) Curves at constant speed	(2)	Curves at constant efficiency		16
	(3) Curves at constant head	(4)	Curves at constant speed and head		
76.	Governing of a turbine means			()
*	(1) the head is kept constant under all condi	itior	ns of working		
	(2) the speed is kept constant under all cond	ditio	ons of working		
	(3) the discharge is kept constant under all	con	ditions of working		
	(4) the speed and discharge is kept constant	t une	der all conditions of working		
77.	Mechanical efficiency (\(\eta_{mech}\)) of a centrifuga	al pi	ump is given by	()
	(1) (Power at the impeller)/S.H.P				
	(2) S.H.P/Power of the impeller			2. 70	
**	(3) Power possessed by water/power at the	imp	peller	GRANDA PERMIT	N.
591	(4) Power possessed by water/S.H.P			100	
78.				()
		(2 ³)	Francis	,	
(M Es	The Control of the Co	(4)	Francis and Kaplan		
79.	For low head and high discharge, the suitable	e tur	WARRIED WARRIED WARRIED	()
		-010	Francis	-	
		(4)	Francis and Kaplan		
80.	Rotamerter is used for measuring	N.		()
		(2)	velocity of fluids in pipes	Ì	
		(4)	viscosity of fluids		
81.	The unit of radioactivity is			()
	(1) electron-volt	(2)	electron-ampere		
		(4)	MeV		
82.	The following present serious difficulty in des	sign	ing a reactor shield	()
	(1) alpha particles .	(2)	beta particles		
	(3) thermal neutrons	(\$)	fast neutrons and gamma rays		
83.	One kg steam sample contains 0.8 kg dry ste	am	its dryness fraction is	()
	(1) 0.2	(2)	0.8		
		(4)	0.6		
84.	The state of vapour under saturation condition	n is	described by	()
					-
			Temperature alone		
	(3) Pressure and temperature	(4)	Pressure and dryness fraction		

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85.	Which of the following is a water tube boi	ler?		()
	(1) Locomotive boiler	(2)	Cochran boiler		
	(3) Babcock and Wilcox boiler	(4)	Cornish boiler		
86.	In the impulse turbine steam expands			()
	(1) in the nozzle	(2)	in the blades		
	(3) Partly in nozzle and partly in blades	(4)	none		
87.	For critical pressure ratio, the discharge th	rough	a nozzle is	()
8	(1) maximum	(2)	minimum		
	(3) zero	(4)	unpredictable		
88.	The commonly used material of pipes in c	onden	sers is	()
	(1) mild steel	(2)	admiralty brass	100	
	(3) stainless steel	(4)	cast iron		
89.	Which of the following is heaviest?			()
	(1) neutron	(2)	proton		-
	(3) atom	(4)	electron		
90.	Electron-volt is the unit of			()
	(1) atomic power	(2)	energy		
	(3) voltage	(4)	radioactivity		
91.	One ton refrigeration is equal to the refrige	ration	effect corresponding to 1000 kg of ice in	1 ()
	(1) 1 hour		24 hours		
	(3) 12 hours	(4)	1 minute		
92.	Moisture in a refrigerant is removed by	1		()
	(1) evaporator	(2)	safety relief valve		
	(3) dehumidifier	(4)	drier		
93	Rating of a domestic refrigerator is of the	order	of	()
	(1) 0.1 ton	(2)	5 tons		
V.	(3) 10 tons	(4)	40 tons		
94,	The value of COP in vapour compression	cycle	is	()
. ·	(1) always < unity	-(2)	always > unity		
	(3) always = unity	(4)	always < zero		
95.	Which of the following is not a desirable p	ropert	y of a good insulating material?	()
	(1) Light weight	(2)	High heat conductivity		
	(3) Odourless	(4)	Low initial cost		



KEY

2. 3	3. 4	4. 3	5. 4	6. 1	7. 3	8. 2	9. 1	10. 2
12. 3	13. 3	14. 1	15. 3	16. 3	17. 3	18. 2	19. 4	20. 1
22. 2	23. 3	24. 1	25. 1	26. 1	27. 3	28. 1	29. 2	30. 4
32. 1	33. 1	34. 2	35. 2	36. 4	37. 3	38. 2	39. 1	40. 3
42. 4	43. 2	44. 1	45. 2	46. 3	47. 2	48. 4	49. 2	50. 4
52: 3	53. 1	54. 1	55. 3	56. 4	57. 3	58. 3	59. 3	60. 2
62. 2	63. 4	64. 1	65. 4	66. 2	67, 3	68. 1	69. 3	70. 4
72. 4	73. 1	74. 4	75. 3	76. 2	77.1	78. 4	79. 3	80. 3
82. 4	83, 2	84. 3	85. 3	86. 1	87. 1	88. 2	89. 1	90. 4
92. 3	93. 1	94. 2	95. 2	96. 2	97. 3	98. 3	99. 3	100. 1
	12. 3 22. 2 32. 1 42. 4 52. 3 62. 2 72. 4 82. 4	12. 3 13. 3 22. 2 23. 3 32. 1 33. 1 42. 4 43. 2 52. 3 53. 1 62. 2 63. 4 72. 4 73. 1 82. 4 83. 2	12. 3 13. 3 14. 1 22. 2 23. 3 24. 1 32. 1 33. 1 34. 2 42. 4 43. 2 44. 1 52. 3 53. 1 54. 1 62. 2 63. 4 64. 1 72. 4 73. 1 74. 4 82. 4 83. 2 84. 3	12. 3 13. 3 14. 1 15. 3 22. 2 23. 3 24. 1 25. 1 32. 1 33. 1 34. 2 35. 2 42. 4 43. 2 44. 1 45. 2 52. 3 53. 1 54. 1 55. 3 62. 2 63. 4 64. 1 65. 4 72. 4 73. 1 74. 4 75. 3 82. 4 83, 2 84. 3 85. 3	12. 3 13. 3 14. 1 15. 3 16. 3 22. 2 23. 3 24. 1 25. 1 26. 1 32. 1 33. 1 34. 2 35. 2 36. 4 42. 4 43. 2 44. 1 45. 2 46. 3 52: 3 53. 1 54. 1 55. 3 56. 4 62. 2 63. 4 64. 1 65. 4 66. 2 72. 4 73. 1 74. 4 75. 3 76. 2 82. 4 83. 2 84. 3 85. 3 86. 1	12. 3 13. 3 14. 1 15. 3 16. 3 17. 3 22. 2 23. 3 24. 1 25. 1 26. 1 27. 3 32. 1 33. 1 34. 2 35. 2 36. 4 37. 3 42. 4 43. 2 44. 1 45. 2 46. 3 47. 2 52. 3 53. 1 54. 1 55. 3 56. 4 57. 3 62. 2 63. 4 64. 1 65. 4 66. 2 67. 3 72. 4 73. 1 74. 4 75. 3 76. 2 77. 1 82. 4 83. 2 84. 3 85. 3 86. 1 87. 1	12. 3 13. 3 14. 1 15. 3 16. 3 17. 3 18. 2 22. 2 23. 3 24. 1 25. 1 26. 1 27. 3 28. 1 32. 1 33. 1 34. 2 35. 2 36. 4 37. 3 38. 2 42. 4 43. 2 44. 1 45. 2 46. 3 47. 2 48. 4 52. 3 53. 1 54. 1 55. 3 56. 4 57. 3 58. 3 62. 2 63. 4 64. 1 65. 4 66. 2 67. 3 68. 1 72. 4 73. 1 74. 4 75. 3 76. 2 77. 1 78. 4 82. 4 83. 2 84. 3 85. 3 86. 1 87. 1 88. 2	12. 3 13. 3 14. 1 15. 3 16. 3 17. 3 18. 2 19. 4 22. 2 23. 3 24. 1 25. 1 26. 1 27. 3 28. 1 29. 2 32. 1 33. 1 34. 2 35. 2 36. 4 37. 3 38. 2 39. 1 42. 4 43. 2 44. 1 45. 2 46. 3 47. 2 48. 4 49. 2 52. 3 53. 1 54. 1 55. 3 56. 4 57. 3 58. 3 59. 3 62. 2 63. 4 64. 1 65. 4 66. 2 67. 3 68. 1 69. 3 72. 4 73. 1 74. 4 75. 3 76. 2 77. 1 78. 4 79. 3 82. 4 83. 2 84. 3 85. 3 86. 1 87. 1 88. 2 89. 1

