







KD TECH			
SSC JE PSU'S CENTRAL & STATE AE/JE			
	Inder the leaders	ıl <u>r</u>	o of 'Neetu Singh'
55.	buring machining on a Lathe, excess metal is removed in the form of chips as in the		(C) $\frac{\sigma_x + \sigma_y}{\sigma_x - \sigma_y} = 0$ (D) $0 \frac{\sigma_x - \sigma_y}{\sigma_x - \sigma_y}$
	case of turning. Which of the following		z z z z
	conditions are required for continuous	60.	Which of the following is true (μ = Poisson's
	ribbon like chip to be formed in turning?		ratio) (A) $O = u = 1$ (B) $1 = u = 1$
	A. At a lower cutting speed		(A) $0 < \mu < 72$ (B) $1 < \mu < -1$
	C. A brittle material	61	A steel rod of 100 cm long and 1 so cm cross
	D. A ductile material		sectional area has a young's modulus of
	Select the correct answer amongst the		elasticity 2×10 ⁶ kgf/cm ^B) It is subjected to
	following		an axial pull of 2000 kgf. The elongation of
	(A) A and C (B)A and D		the rod will be: $(A) = 0.05 \text{ cm}$ (D)0.1 cm
56	(C) B and C (D) B and D Match list 1 (Process) with list 11 (Products		(A) 0.05 cm (B) 0.1 cm
30.	or raw material) and select the correct	62.	When a body is immersed in a fluid, the
	answer using the codes given below the list:		buoyant force experienced by it is
	List-1		proportional to
	A. Die casting		(A) Volume of the body
	B. Shell molding		(B) Volume of the fluid displaced
	C. CO_2 molding		(D) Velocity of immersion
	List -II	63.	Which one of the following forecasting
	(A) Phenol formaldehyde		techniques is most suitable for making long
	(B) C.I. pipes		range forecast?
	(C) Non-ferrous alloys		(A) Time series analysis
	(D) Sodium silicate		(C) Exponential smoothing
	Codes:		(D) Market surveys
	A B C D	64.	A hollow shaft of the same cross-section
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		area and material as fiat of a solid shaft,
	(C) 1 3 2 4		transmits:
	(D) 3 1 2 4		1 Same torque
57.	In the 3-2-1 principle of fixture 3 refers to		(C) More torque
	number of:		4 None
	(A) Setups possible (B) Clampa required	65.	Which key is preferred for the condition
	(C) Locating position		where a large amount of impact torque is
	(D) Positions on primary face		to be transmitted in both direction of
58.	A given steel test specimen is studied under		(A) Woodruff key
	metallurgical microscope (magnification		(B) Feather key
	used is 100X). In that different phases are		(C) Gib head key
	observed one of them is resc. The observed phase Fe _c C is also known as		(D) Tangent key
	(A) Ferrite	66.	The maximum distortion energy theory of
	(B) Austen ite		tailure is suable to predict the failure of
	(C) Cementite.		?
	(D) Martensite		(A) Brittle materials
59.	For a general two dimensional stress		(B) Ductile materials
	centre of Mohr's circle?		(C) Plastics
			(D) Composite materials
	(A) $\frac{\sigma_x - \sigma_y}{\sigma_x}$, 0 (B) 0, $\frac{\sigma_x \sigma_y}{\sigma_x}$	67.	In the assembly design of shaft, pulley and
	2 Z		Key, the weakest member is





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