

1 2	The desirable material for HERF In HERF process	Brittle Small amount of energy is applied for a very short interval of time	Ductile Large amount of energy is applied for a very short interval of time	Viscoelastic Large amount of energy is applied for a very large interval of time	Viscoplastic Small amount of energy is applied for a very large interval of time
3	Spring back effect in HERF is	High	Negligible	Moderate	None of the above
4	An explosive forming is one of the techniques to form a metal plate using	Shock pressure from EM pulse	high shock pressure from the explosion	Magnetic field	High temperature
5	explosive forming is not economically viable when a is required.	Very small number of components	very large number of components	Precision	Complex part manufacturin g
6	Magnetic pulse forming is a high-speed forming process in which force is used to deform the workpieces.	hydraulic	electromagnetic	mechanical	pneumatic
7	Electrohydraulic forming (EHF) is based on the ultra-high-speed deformation of metal using	heating of metal	shockwaves in water	electromagneti c shock in vacuum	hydraulic power
8	Advantages of Electro Hydraulic Forming (EHF)	Extremely fast	All	Only a single one-sided die is required	Fine details and sharp lines can be easily formed
9	Which is a metal forming process in which a piece of sheet metal is stretched and bent simultaneously over a die in order to form large contoured parts.	HERF	Stretch forming	Electrohydrauli c forming	Explosive forming
10	disadvantage of metal spinning is	does not involve removal of material	Repairing the object is not cost-effective	Several operations can be performed in one set-up	less cost than other metal forming techniques
11	is a sheet metal forming technique where a sheet is formed into the final workpiece by a series of small incremental deformations.	Stretch forming	Incremental sheet metal forming	Flow forming	Metal spinning
12	is a high-precision type of blanking, which is the die cutting of the outside shape of a part.	Micro coining	Fine blanking	Micro extrusion	Petro-forge forming
13	"Using the discharge of current from a capacitor bank, an electric arc is generated in water between two electrodes. This electric arc vaporizes the surrounding water, converting electrical energy into an intense shockwave of mechanical energy."-This process is involved in:	Petro-forge forming	Electrohydraulic forming	Magnetic pulse forming	Explosive forming
14	A method of forming rotationally symmetrical sheet metal parts?	Stretch forming	Metal spinning	Micro forming	Magnetic pulse forming
15	produces axisymmetric cylindrical workpieces starting from hollowed tubes, premachined blanks, or forged or deepdrawn parts.	Electro hydraulic forming	Flow forming	Stretch forming	Magnetic pulse forming
16	Which of the the following metal can not be formed by High Energy Rate Forming.	Copper	Cast Iron	Steel	Aluminium
17	Thin components of nickel based and Cobalt based super alloys can be mass-produced using	Forward flow forming	Backward flow forming	Spinning	HERF
18	Only female die is needed in	Electromagneti c forming	High energy rate forming	Roll forming	Electro hydro forming

19	Automatically controlled movements of rollers are employed in	Spinning	Flow forming	Roll forming	Shear spinning
20	Vacuum in in the die is prerequisite for	High energy rate forming	Explosive forming	Electromagneti c forming	Electro Hydro forming
21	Hemispherical hemi ellipsoidal profile forming is achieved in	Roll forming	Shear Spinning	High Energy Rate Forming	Explosive forming
22	Capacitor Bank is required in	Electromagneti c forming	Electro Hydro forming	Magnetic pulse forming	Explosive forming
23	Generation of Eddy current is essential in	High energy rate forming	Electromagnetic forming	Explosive forming	Hydroforming
24	Production of conical and axisymmetric parts is speciality of	Explosive forming	Shear spinning	High energy rate forming	Roll forming
25	In metals subjected to cold working, strain hardening effect is due to	Slip Mechanism	Dislocation Interaction Mechanism	Twinning Mechanism	Fracture Mechanism
26	What is the movement of block of atoms along certain crystallographic plane and directions termedas?	Glide	Slip	Twinning	Jog
27	Which one of the following is the correct ascending order of packing density for the given crystal structures of metals?	SC-FCC-BCC	SC-BCC-FCC	BCC-SC-FCC	BCC-FCC-SC
28	Which one of the following crystal systems is valid for Gold?	Orthogonal	Cubic	Hexagonal	Triclinic
29	Surface imperfections which separates two orientations that are mirror image of one another is called	Stacking Fault	Twinned Boundary	Grain Boundary	Tilt Boundary
30	Line imperfection in a crystal is called	Miller defect	Edged is location	Frenkel defect	Schottky defect
31	Edge dislocation is a	Point imperfection	Line imperfection	Surface imperfection	Volume imperfection
32	Edge dislocation of a metal is	Point defect	Line defect	Surface defect	Volume defect
33	Total area under stress strain curve is known as	Modulus of ductility	Modulus of toughness	Toughness	Resilience
34	Area under load elongation curve is	Toughness	Ductility	Resilience	Modulus of toughness
35	Which of the following shows potential ofplastic deformation	Elastic modulus	Ductility	Resilience	Modulus of Resilience
36	Substitute of yield strength in brittle materials is	UTS	Proof Strength	Breaking Strength	Compressive strength
37	Effect of strain-hardening is reduced by	Hardening	Annealing	Martempering	Austempering
38	Breaking stress inductile materials is lower than Ultimate tensile strength because of	Cupping	Necking	Filleting	Dislocation movement
39	The lowering of the yield stress when deformation in one direction is followed by the deformation in opposite direction is known as	Creep Effect	Bauschinger effect	Wohler effect	Elastic effect
40	When a metal stretches, but does not break under a certain load, this point is called the Point.	Tensile	Yield	Stretch	Ultimate strength
41	Ductility is the ability of a metal to before it breaks.	Bend	Stretch or elongate	Be forged	Be indented
42	Engineering stress-strain curve and True stress-strain curve are same up to	Proportional limit	Yield point	Elastic limit	Tensile strength point
43	True stress-strain curve need to be corrected after	Elastic limit	Yield limit	Tensile strength	No need to correct
44	In a tensile test of a ductile material, necking starts at	Lower yield stress	Ultimate tensile strength	Upper yield stress	Just before fracture
45	Errichsen test indicates	Castability	Formability	Weldability	Machineabilit y
46	Which region is subjected to a thermal cycle but is not deformed during welding?	flow arm zone	heat-affected zone (HAZ)	stir zone	None of the above
47	Post weld heat treatment is	to make the material hot enough for welding	heating the material after welding	to improve weld penetration	done to reduce corrosion

Von Mises and Tresca criteria give different yield stress for Time dependent recoverable deformation under load is called	ocation Interaction Mechanism iic nned Boundary ep BCC-FCC ed is location e defect ought iron ain relieving brittleness shaped parts nboo defect tylene nkling ing ing ing ing ing ing ing ing ing		Weak bonds bending stress Elastic after-effect Slip Mechanism Orthogonal Stacking Fault Plastic Deformation Glide SC-FCC-BCC Miller defect Point imperfection Point defect Cast iron Ability of mechanical soundness thin tubes fluid defct Biogas orange peel wrinkling	combination of bonds Balanced bi-axial stress Elastic Twinning Mechanism Hexagonal Grain Boundary Elastic Deformation Twinning BCC-SC-FCC Frenkel defect Surface imperfection Surface defect Stainless steel Serviceability of joint wire orange peel Coal gas stretcher strains orange peel	Vanderwaals bond Uni-axial stress Visco-elastic Fracture Mechanism Triclinic Tilt Boundary Aelastic Deformation Jog BCC-FCC-SC Schottky defect Volume imperfection Volume defect High carbon steel Metallurgical compatibility of metal rods fishtail Methane earing stretcher strains
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Proof stress is substitute for Yield st	vement		jog	pile up	annihilation
Proof stress is substitute for Yield st	d point		UTL	Breaking point	Fracture load
	d strength		Ultimate Tensile strength	fracture sress	fatige limit
	d working		hot working	warm woring	Casting
Capacity of material to exibit considerable elastic recovery upon release is Resilier	ilience		Hardness	Toughness	Endurance
	tacles are present	-	Obstacles are moving	Obstacles are weak	Obstacles are absent
	cture point		Proportinal limit	Elastic Limit	Yeild point
	d point		Tensile strength point	Proportional limit	Elastic limit
	pendence of yield stress on path and direction		Hysteresis loss during loading and unloading	None	Anelastic deformation
	dulus of toughness		Modulus of ductility	Toughness	Resilience
Area under load elongation curve is Ductilit			Toughness	Resilience	Modulus of toughness
Which of the following shows potential ofplastic deformation Ductilit			Elastic modulus	Resilience	Modulus of Resilience
	of Strength	-	UTS	Breaking Strength	Compressive strength
Effect of strain-hardening is reduced by Anneal		-	Hardening	Martempering	Austempering
Breaking stress in ductile materials is lower than Ultimate tensile strength because of Neckin			Cupping	Filleting	Dislocation movement
	nge peel	\rightarrow	wrinkling	stretcher strains	earing
	etcher strains	-	wrinkling	earing	orange peel
	sile compressive	-	shear	tensile	compressive
A stress state in blanking is shear		_	tensile compressive	compressive	tensile
	ge welding		Spot welding	Projection welding	Seam welding
	rect extrusion	-	direct extrusion	continuous extrusion	hydrostatic extrusion
	etch forming		drawing	rolling	forgeing
	structing		acceleration	initiating	tunnelling
	p Drawing	_	wire Drawing	metal spinning	HERF
Luders Bands speak about Ductilit			Fatigue strength	UTS	Endurance
	Leiney	-+	i augue strengtri	013	Linuarante
Electrohydraulic forming (EHF) is based on the ultra-high-speed deformation of metal using shockw	ckwaves in water		heating of metal	electromagnetic shock in vacuum	hydraulic power
bent simultaneously over a die in order to form large contoured parts.	etch forming		HERF	Electrohydraulic forming	Explosive forming
converting electrical energy into an intense shockwave of mechanical energy This	ctrohydraulic forming		Petro-forge forming	Magnetic pulse forming	Explosive forming
process is involved in		Ш			
Automatically controlled movements of rollers are employed in Flow for	u forming		Spinning	Roll forming	Shear spinning

is a high-precision type of blanking, which is the die cutting of the outside shape of a part. produces axisymmetric cylindrical workpieces starting from hollowed tubes, premachined blanks, or forged or deep-drawn parts. The lowering of the yield stress when deformation in one direction is followed by the deformation in opposite direction is known as When a metal stretches, but does not break under a certain load, this point is called the Point. In a tensile test of a ductile material, necking starts at Ultimate tensile strength Lower yield stress Ultimate tensile strength Lower yield stress Upper yield stress Upper yield stress Ust before fracture Errichsen test indicates Formability Which region is subjected to a thermal cycle but is not deformed during welding? heat-affected zone (HAZ) Which of the following is most weldable Advances in welding technology are focused on reduced HAZ Micro coining Magnetic pulse fect Usher fect Usher fect Wohler effect Ushe						
December of least certain is exception in Section (1985) Section (1985	Hamispharical hami allinegidal profile forming is achieved in	Shoar Spinning	<u> </u>	Poll forming	High Energy Pate Forming	Evolucive forming
The device at animark for SHPT			-	-		
is agreement all energy is applicated or every in applicated or ever			┪			
is rieff process in process	The desirable material for HERF		-			
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in perspection forming in one of the Conference forming in one of the Conference forming in the original plant of the Conference forming in the Conf	In HERF process					
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Appeting seconies of the forming as a big speed of them the solidation of authority and authority for first and authority of the solidation of the solidatio		high shock pressure from the explosion		1	Magnetic field	High temperature
Exeming process on winds or former the wedgescopes. It is sheef most if forming checking with any set of former of control of the forming of the process of the control of the forming of the control of		+	-	Eivi puise		
Les a their motal forming (exchanges where a share? A formed section of the Secti		electromagnetic	1	hydraulic	mechanical	pneumatic
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Section from the following reset can make formed by high frompy face forming. This components of finished based and Collect Board anger allegs can be removed. This components of finished based and Collect Board anger allegs can be removed. The contract of the collection of the c		Advantage lands		Charles formation	Attack formation	Manualia sulas familias
Date components of forcer based and Cobalt based spor alloys can be missipandured using Only female die is receded in With energy rate forming Wit	A method of forming rotationally symmetrical sneet metal parts?	ivietai spinning		Stretch forming	Micro forming	Magnetic pulse forming
Indicators have controlled any extended any extended any extended any extended any extended and provided for the process of th	Which of the the following metal can not be formed by High Energy Rate Forming.	Cast Iron		Copper	Steel	Aluminium
Indicators have controlled any extended any extended any extended any extended any extended and provided for the process of th	This common to the interest and Cohellahared and Cohellahared					
Only Feese deed on Figure 1 High energy rate forming 1 High energy rate forming 1 High energy rate forming 2 High energy rate forming 3 High energy rate forming 4 High energy rate forming 5 High energy rate forming 5 High energy rate forming 6 High energy rate for		Backward flow forming		Forward flow forming	Spinning	HERF
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vable when a is required. Al Advantages of fector bydraulic roming (EHF) disadvantage of metal spinning is Bepairing the object is not cost-effective does not involve removal of material Several operations can be performed in one set-up Micro produces askymmetric cylindrical workspeces starting from hollowed tubes, prevanching blanks, or forged or deep drawn parts. Produces askymmetric cylindrical workspeces starting from hollowed tubes, prevanching blanks, or forged or deep drawn parts. Produces askymmetric cylindrical workspeces starting from hollowed tubes, prevanching blanks, or forged or deep drawn parts. Produces askymmetric cylindrical workspeces starting from hollowed tubes, prevanching blanks, or forged or deep drawn parts. Produces askymmetric cylindrical workspeces starting from hollowed tubes, prevanching blanks, or forged or deep drawn parts. Produces askymmetric cylindrical workspeces starting from hollowed tubes, prevanching blanks, or forged or deep drawn parts. Produces askymmetric cylindrical workspeces starting from hollowed tubes, prevanching blanks, or forged or deep drawn parts. Produces askymmetric cylindrical workspeces starting from hollowed tubes, prevanching blanks, or forged or deep drawn parts. Produces askymmetric cylindrical workspeces starting from hollowed tubes, prevanching blanks, or forged or deep drawn parts. Produces askymmetric cylindrical workspeces starting from hollowed tubes, prevanching blanks, or forged or deep drawn parts. Produces askymmetric cylindrical workspeces starting from hollowed tubes, prevanching blanks, or forged or deep drawn parts. Produces askymmetric cylindrical workspeces starting from hollowed tubes, prevanching blanks, or forged or deep drawn parts. Produces askymmetric cylindrical workspeces starting from hollowed tubes, prevanching blanks, or forged or deep drawn parts. Produces askymmetric cylindrical workspeces starting from hollowed tubes, prevanching data and strong tubes of the starting from the deep drawn parts. Produc				·	Precision	
Authority of the control systems (pers) All section systems (pers) All sections (pers)	viable when a is required.	components		of components		
disadvantage of metal spinning is Several operations can be performed in one set-up less cost than other metal forming technic apart.	Advantages of Electro Hydraulic Forming (EHF)	All		Extremely fast	Only a single one-sided die is required	
Several operations can be performed in one set-up less cost train order metal forming team less a high-procession byte of blanking, which is the die cutting of the outside shape of a part. Micro coining						lines can be easily formed
part. produces anisymmetric cylindrical workpieces starting from hollowed tubes, premachined blanks, or forged or deep-drawn parts. Flow forming the viel detress when deformation in one direction is followed by the deformation in one direction is followed by the deformation in opposite direction is known as when a metal strethee, but does not break under a certain load, this point is called the point. In a tensile test of a ductlie material, necking starts at Ultimate tensile strength Universe test indicates Which region is subjected to a thermal cycle but is not deformed during welding? Which region is subjected to a thermal cycle but is not deformed during welding? Which region is subjected to a thermal cycle but is not deformed during welding? Which deforms the following is most weldable Weld decays is seen in Which of the following is most weldable Weld advances in welding technology are followed to the following is most weldable Weld Thermal Cycle is independent of characteristic properties In multiple run welding, in ordinary steels, the grain refinement takes place Second Run Flost Weld treatment Flost Weld retarned: Flost Wel	disadvantage of metal spinning is	Repairing the object is not cost-effective		does not involve removal of material	Several operations can be performed in one set-up	less cost than other metal forming techniques
a part	is a high-precision type of blanking, which is the die cutting of the outside shape of	Fine blanking		Micro coining	Micro	Petro-forge forming
Premachined blanks, or forged or deep-drawn parts. Provided the private forming in the viewled stress when deformation in one direction is followed by the deformation in one direction is known as		- Inc Stationing		Third Comming	extrusion	r ear o ronge romming
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Which of the following is most weldable Advances in welding technology are foused on reduced HAZ Decreases with increased hardenability Neldability Decreases with increased hardenability Neld Thermal Cycle is independent of New Heat input rate New Heat reatment is New Heat input rate New Heat reatment is New Heat reatment is New Heat input rate New Heat reatment is New Heat input rate New Heat reatment is New Heat reatment is New Heat input rate New Heat reatment is New Heat reatment is New Heat reatment is New Heat input rate New Heat reatment is New Heat reatment is New Heat input rate New Heat reatment is New Heat input rate New Heat reatment is New Heat reatment	Which region is subjected to a thermal cycle but is not deformed during welding?	heat-affected zone (HAZ)		flow arm zone	stir zone	None of the above
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With an increase in the heat input of arc welding method, how does it affect the welding speed? Increases Increases Remains same No relation No relation High speed steel			1			
welding speed? Decreases Increases Remains same No relation In resistance welding the electrode material is made of Copper Carbon steel Stainless steel High speed steel			1			
In resistance welding the electrode material is made of Copper Carbon steel Stainless steel High speed steel		Decreases		Increases	Remains same	No relation
		Copper	1	Carbon steel	Stainless steel	High speed steel
primer or are construing ray to not produced during recording reco			1			
The metals having good weldability, in descending order are cast steel, iron, carbon steel, cast iron	0 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1			
The current is not passed continuously in Seam welding Projection welding Flash welding Flash welding Projection welding			1			
The cuttern is not passed continuously in Sesial wearing Fragment (Flash butt welding is Sesial wearing Fragment (Flash			1	· · · · · · · · · · · · · · · · · · ·		
Proceeding and straight pointy No weight with the point			1	1	parameter straight polarity	

Weld metal cracking occurs due to	Stress	Strain	Temperature conditions	Pressure conditions
Which property controls the porosity of the metal	Gas solubility	Solid solubility	Flame solubilit	Liquid solubility
Distortion in welding occures due to	Improper clamping methods	Use of wrong electrodes	Oxidation of weld pool	Improper composition of parent material
On which of the following factor, does weldability not depend?	Boiling point	Melting point	Thermal expansion	Thermal conductivity
Electrodes used in spot welding are	Copper and aluminium	Only Copper	Copper and tungsten	Copper and chromium
Which of the following joint has high corrosion resistance?	Welded joint	Riveted joint	Bolted joint	brazzed joint
Which of the following types is not fillet weld?	butt joint	lap joint	T-joint	Corner joint
Which of the following is an example of plastic welding?	Forge welding	Gas welding	Thermit welding	Arc welding
Electric resistance welded pipes are manufactured by	Seam welding	Percussion welding	Flash welding	Projection welding
The voltage needed in resistance welding does not depend upon	Length of weld	Composition	Area	Thickness of weld
Which of the following is not a resistance welding?	Pressure welding	Spot welding	Butt welding	Percussion welding
Which effect is not seen in alloys on weldability?	Provision for oxidation to molten metal	Reduction in segregation	Control of ductile-malleable transformation temperature	Grain refinement
Precipitation of chromium carbides at elevated temperature along grain boundries of	sensitization	oolitization	earing defect	fishtail defect
stainless steel is called	Sensitization		learning defect	iisiitaii derect