

University of Mumbai
Examination 2020 under cluster 09 (FAMT)

Program: Mechanical Engineering

Curriculum Scheme: Rev 2016

Examination: Second Year

Semester: III

Course Code: MEC304

Course Name: Production process 1

Time: 1 hour

Max. Marks: 50

For the students:- All the Questions are compulsory and carry equal marks .

Q1.	The ability of the moulding sand to withstand the heat of melt without showing any sign of softening is called as
Option A:	strength or cohesiveness
Option B:	refractiveness
Option C:	collapsibility
Option D:	adhesiveness
Q2.	A model of casting, constructed to use for forming a mould in damp sand, is called as
Option A:	sand construction
Option B:	pattern
Option C:	core
Option D:	die
Q3.	The amount of draft required does not depends upon
Option A:	shape and size of casting
Option B:	moulding method
Option C:	material of pattern
Option D:	method of production
Q4.	Which of the following method is used to determine the slope and deflection at a point?
Option A:	Arithmetic increase method
Option B:	Mathematical curve setting
Option C:	Macaulay's method
Option D:	Lacey's method
Q5.	The distortion in casting can not be prevented by
Option A:	modification of casting design
Option B:	providing distortion allowance
Option C:	providing sufficient machining allowance to cover the distortion effect
Option D:	providing proper shrinkage allowance
Q6.	Effect of higher factor of safety on cost of the material?
Option A:	Increases
Option B:	Decreases

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Option C:	No change
Option D:	90 percent more than factor of safety
Q7.	The low permeability in sand can cause which of the following defects in casting
Option A:	Rough surface
Option B:	Blow holes
Option C:	hot tears
Option D:	Drop
Q8.	Sprue in casting refers to.....
Option A:	Gate
Option B:	Runner
Option C:	Riser
Option D:	Vertical passage
Q9.	Which kind of resistance is experienced in upset butt welding?
Option A:	Electric resistance
Option B:	Magnetic resistance
Option C:	Thermal resistance
Option D:	Air resistance
Q10.	Which of the following can be easily be welded from flash butt welding process?
Option A:	Tin
Option B:	Lead
Option C:	Cast irons
Option D:	Carbon steel
Q11.	The low permeability in sand can cause which of the following defects in casting
Option A:	Rough surface
Option B:	Blow holes
Option C:	hot tears
Option D:	Drop
Q12.	The resistance of the arc
Option A:	Decrease with an increase of the current
Option B:	Increases with increases of the current
Option C:	Does not depends on current
Option D:	Does not depends on voltage
Q13.	The amount of draft required does not depends upon
Option A:	shape and size of casting
Option B:	moulding method
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Q14.	A DC generator used for A.C welding should have
Option A:	Rising characteristics
Option B:	Dropping Characteristics
Option C:	Straight characteristics
Option D:	Fluctuating characteristics
Q15.	Which property is not required for shaft materials?
Option A:	High shear and tensile strength
Option B:	Good machinability
Option C:	High fatigue strength
Option D:	Good castability
Q16.	What is an example of plastic welding?
Option A:	Gas Welding
Option B:	Resistance welding
Option C:	Thermit welding without pressure
Option D:	Fusion welding
Q17.	Hot cracks can be prevented by _____
Option A:	faster cooling
Option B:	non uniform heating
Option C:	pre-heating
Option D:	slower cooling
Q18.	Which of the following metal forming processes performs squeezing out of material through a hole?
Option A:	Forging
Option B:	Rolling
Option C:	Drawing
Option D:	Extrusion
Q19.	Some structural members subjected to a long time sustained loads deform progressively with time especially at elevated temperatures. What is such a phenomenon called?
Option A:	Fatigue
Option B:	Creep
Option C:	Creep relaxation
Option D:	Fracture
Q20.	Which of the following metal forming processes is best suitable for making the wires?
Option A:	Forging
Option B:	Extrusion

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Option C:	Drawing
Option D:	Rolling
Q21.	The property by which a body returns to its original shape after removal of the force is called _____
Option A:	Plasticity
Option B:	Elasticity
Option C:	Ductility
Option D:	Malleability
Q22.	Which of the following defect is eliminated by hot working process?
Option A:	Cold shut
Option B:	Misrun
Option C:	Blow holes
Option D:	Fusion
Q23.	The amount of draft required does not depends upon
Option A:	shape and size of casting
Option B:	moulding method
Option C:	material of pattern
Option D:	method of production
Q24.	Which of the following metal forming processes is best suitable for making the wires?
Option A:	Forging
Option B:	Extrusion
Option C:	Drawing
Option D:	Rolling
Q25.	The amount of draft required does not depends upon
Option A:	shape and size of casting
Option B:	moulding method
Option C:	material of pattern
Option D:	method of production