## **FOUNDRY TECHNOLOGY**

1.	Scope of aut	tomation in foundry process is
	a) Low	
	b) High	
	c) Minimum	
	d) Maximum	1
2.	Which of the	following is an advantage of the Green sand molding process used in a
fo	undry?	
	a) Appropria	te for long production run
	b) Very low	cost process
	c) Sand is rea	usable
	d) All of the	mentioned
3.	The castings i	in formed in foundry produced are accurate in dimensions.
	a) True	• •
	b) False	
4.	The	energy consumption is a drawback of the foundry.
	a) High	
	b) Optimum	
	c) Intensive	
	d) Low	
5.	Foundry pro	cess is used to make intricate parts.
	a) True	•
	b) False	
6.	The	directional properties are imparted to the castings made in foundries.
	a) Single	
	b) Double	
	c) Spherical	
	d) Multiple	
7	•	forms a seat in mold on which the sand core rests during pouring.
′•	a) Pattern	forms a seat in moid on which the said core resis during pouring.
	b) Sand	
	c) Core	
	d) Core Print	
R	Which of the	e following is a property of core material used in a foundry?
0.		e for long production
	b) Low Weigh	
	c) Reusable	
	d) Core Print	
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9.		is responsible for cavities in castings in the foundry.
	a) Patterns	
	b) Sand	

	c) Cores
	d) Riser
10.	A core is a disposable item but it can be reused from time to time.
	a) True
	b) False
11.	The number of cores to be used to form castings is
	a) One
	b) Ten
	c) Depends on the sand
	d) Depends on the design
12.	cores cannot make long narrow features.
	a) Green Sand
	b) Dry-Sand
	c) Metallic
	d) Lost
13.	Which of the following process is not used to remove the cores from the finished casting?
	a) Blowing
	b) Melting
	c) Washing
	d) Chemical Dipping
14.	Binders are added to increase the strength of the core.
	a) True
	b) False
15.	Which of the following is not used for the formation of the molding sand?
	a) Silica Sand
	b) Binders
	c) Additives
	d) Coal
16.	The is responsible for the impact strength in the molding sand.
	a) Aggregates
	b) Refractoriness
	c) Impurities
	d) Permeability
17.	Molding sand can withstand chemical reactions on it and prove it to be beneficial for the
cas	ting formation.
	a) True
	b) False
18.	Binding property of the sand increases because of the property.
	a) Cohesiveness
	b) Collapsibility

	d) Permeability
19.	Which of the following is the most important property of the molding sand in cores?  a) Dry Strength b) Green strength c) Collapsibility d) Cohesiveness
20.	The adhesiveness and cohesiveness are the same properties of the molding sand.  a) True  b) False
21.	Flow ability increases with increase in the green strength. a) True b) False
22.	The molding sand is prepared bymethod.  a) Sand Mueller  b) Manual work c) Sand sieve d) Rotator
23.	The samples of the moisture test are prepared in heater bulb.  a) Infrared b) X-ray c) Radio d) Ultraviolet
24.	The top sieve of the sand sieve analysis is the finest.  a) True b) False
25.	The Sand Sieve Analysis is used for  a) Grain Fitness test b) Grain Size test c) Green strength test d) Compressive strength test
	If dross and slag along with the liquid metal reach the mould cavity they produce the ect known as?
A. 1	Misrun
B. I	nclusions
C. F	Blow holes
D. A	All of the above

c) Flow ability

27. Slag and dross can be removed by?
A.skimming from the molten metal
B.using bottom pouring ladle
C.using pouring basin in place of a pouring cup
D.any of the above
28. The methods of casting for producing ornamental pieces are?
A.pressed and slush casting
B.slush and gravity casting
C.gravity and semi-permanent mould casting
D.none of the above
29. Metal moulds are used in all of the following EXCEPT:
A.Die casting process
B.Investment casting
C.Permanent mould casting
D. Centrifugal casting
30. Mixing coal dust with moulding sand results in
A. blackening of the mould
B. strong mould
C. good air venting
D.none of the above
31. Hot spots are generally found in castings
A. having abrupt variation in section
B .with uniform cross-section
C. symmetrical about two axes
D. small in weight but large in volume
32. Flux used in cupola while melting cast iron is
A. lime stone
B. coke slurry

C. molasses
D.any of the above
33. Which of the following defect may occur due to improper design of gating system?
A. Cold shuts
B. Rough surfaces
C. Misruns
D.any of the above
34. On drying, wood
A. bexpands
B. shrinks
C. changes colour
35. If an old casting is to be used as a pattern, to account for various allowances.
A. casting is shaken while withdrawing from mould
B. the surfaces are lagged with thin strips of wood or leater
C. the castings are cleaned and made smooth
D.to provide draw screws, holes can be drilled and tapped in the casting Gated patterns are normally used for
36. Gated patterns are normally used for
A. mass production of small castings
B. production of castings which do not require machining
C. castings having several hollow spaces
D. castings for light metals
37. The contraction allowance for magnesium is around
A.1 mm/metre
B.5 mm/metre
C.14 mm/metre
D.25 mm/metre
38. The solidification shrinkage of carbon steel is around
A.0.1 to 0.2 percent

B.0.5 to 1 percent
C.2 to 4 percent
D.8 to 10 percent
39.Permeability of sand decreases as
A. permeability increases
B. moisture content increases
C. bonding content increases
D. all of the above
40.Blow holes in castings are due to
A. high moisture content of the sand
B. low permeability of sand
C. excessive fine grains and gas producing ingredients
D.any of the above
41. The contraction allowance for pattern depends on
A. composition of the metal
B. method of moulding used
C. pouring temperature
D. all of the above
42. There is no need for the withdrawal of pattern from the mould in case of
A. wax patterns
B. hollow patterns
C. patterus with core
D. consumable patterns
43. Which of the following is very powerful carbide former in cast iron?
A. Silicon
B. Vanadium
C. Chromium
D. Nickel

A. Blow holes
B. Pin holes
C. Gas holes
D. Slag holes
45.In case of carbondioxide moulding, the binder used is generally
A. sodium silicate
B. china clay
B. china clay C. coal dust

44. Which of the following holes appear on the surface of the casting when it is machined?