ADVANCED MANUFACTURING PROCESSES

MODULE: 2 Short questions / Quiz.

1.	The process, patented in is commonly known as "lost"						
	process.						
2.	In the EPC process; are not used, hence it is mostly advantageous in making						
	in automobiles.						
3.	In the EPC process, theis used to cover the foam cluster; which acts as a						
	barrier preventing the penetration and sand erosion during pouring.						
4.	In EPC process, the patters are made from						
5.	In case of coating materials in EPC,is preferred for rougher sand						
	while is used for finer sand.						
6.	In EPC process, as the sand is unbounded, due to the difference in the of the						
	metal; sand may fall down in the generated cavity, leading to a defective casting.						
7.	The function of a coating material in EPC is to provide and seal the						
8.	The VAEPC stands for						
9.	The V- Process stands for, it was developed in Japan in						
10.	The V-process does not require methods and equipment to remove the						
	casting out and the sand can be after cooling without further treatments.						
11.	In the V- Process, is not required on the pattern, thereby reducing the						
	costs.						
12.	In making mould for the V- process, two films are used in						
	order to seal the box.						
13.	The investment casting process initiates with the production of the						
	required shape of castings.						
14.	is the last operation before final finishing in the casting process.						
15.	The major limitations of the investment casting process is the and of						
	the shells, which limits its size and mass obtained.						
16.	Some common types of wax used in ceramic shell investment casting are						
17.	A is a machine which makes use of an earlier conditioned wax and injects						
	it into a, to produce a wax pattern.						

18.	. The	molding pro	ocess was invent	ed in Germany	and is also k	nown as the
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19.	. The	resins used for	the shell proces	s are costly and	d make the sa	and difficult
	to	_·				
20.	. In shell molding	g, the resin sand	d mix aggregate	coating can b	e prepared b	у,
	a	nd	methods			

MODULE 2: Answers to the quiz/ short questions

- 1. Evaporative Pattern Casting (EPC), 1958, Foam
- 2. Cores, Cylinder heads and engine blocks
- 3. Ceramic coating

- 4. Expendable Polystyrene (EPS)
- 5. Highly permeable coating, medium and low permeable coating.
- 6. Evaporation rate and flow rate.
- 7. Refractory protection, penetration of metals.
- 8. Vacuum Assisted Evaporative Pattern Casting Process.
- 9. The Vacuum Sealed Molding process, 1971
- 10. Shaking out, reused.
- 11. Draft, material
- 12. Plastic polyethylene / Ethylene vinyl Alcohol
- 13. Wax replicas or patterns
- 14. Fettling (cutting off)
- 15. Cost and delicacy
- 16. Bee, paraffin, canauba and montana.
- 17. Wax injector, die
- 18. Shell, Croning process
- 19. Phenolic, reclaim.
- 20. Hot, cold or warm