

Name: _____ Hall Ticket No.

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Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**I Choose the correct alternative:**

1. Investment casting uses pattern of []
(a) wax (b) clay (c) metal (d) wood
2. Swell is a casting defect which []
(a) results in a mismatching of the top and bottom parts of a casting
(b) is due to enlargement of the mould cavity by metal pressure causing partial or over all enlargement of the casting
(c) occurs near the ingates as rough lamps on the surface of the casting
(d) is due to a thin projection of metal not intended as part of the casting
3. Slag inclusion in casting is a []
(a) surface defect (b) internal defect (c) superficial defect (d) sub surface defect
4. Slush casting process is used to produce []
(a) hollow castings (b) intricate castings (c) large size castings (d) thin walled castings
5. Vertical centrifugal castings as compared to horizontal centrifugal castings are spun at []
(a) higher speed (b) slower speed (c) same speed (d) unpredictable
6. In a hot chamber die casting machine []
(a) Melting pot is separate from the machine (b) Melting pot is an integral part of the machine
(c) Melting pot may have any location (d) there is no need for melting pot
7. True Centrifugal casting []
(a) is used to obtain high density and pure castings
(b) is used to ensure purity and density at extremities of a casting
(c) uses a heavy cast iron mould to act as chill
(d) is used to cast symmetrical objects
8. The purpose of inoculation is []
(a) to clean the casting (b) to decrease the melting temperature of cast metal
(c) to alter the chemical composition of a cast metal
(d) to modify the structure and properties of a cast metal
9. Cold shuts are casting defects []
(a) which occur due to some sand shearing from the cope surface
(b) which take the form of internal voids or surface depression due to excessive gaseous material not able to escape
(c) which occur due to discontinuity in metal casting resulting from hindered contraction
(d) caused by two streams of metals that are too cold to fuse properly.

10. Accuracy of shell molding is of the order of []
(a) 0.001mm/mm (b) 0.003 to 0.005 mm/mm (c) 0.01 mm/mm (d) 0.1 mm

II Fill in the blanks

11. When an alloy solidifies over a short range of temperature the resulting casting structure will be _____
12. Wax pattern is used in _____ casting
13. Full mould process is also known as _____.
14. _____ is used for core-making as non-baking binder.
15. When the metal in cupola starts melting, the rate of charging is _____ to rate of melting to keep the furnace full.
16. In furon-no-bake process, _____ is used as activator.
17. A casting defect which results in general enlargement of the casting is known as _____
18. _____ process uses sodium bonded sand and ferrosilicon in core hardening process.
19. A Casting defect which occurs near the ingates as rough lumps on the surface of a casting is known as _____
20. Progressive solidification starts from the mould wall and move towards _____ of the wall.

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