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QP SET C

Entry No: 2014EE30523
Group No.: 9

Product Realization (MCP 101)- Quiz 1

Max. Marks 35

Max. time 30 mins

Note: Answers must be brief and to the point. All objective based questions have negative marking. For each incorrect answer 0.5 marks will be deducted. Write your name and E.No. on each sheet.

Q.1 Choose the correct alternative:

(15)

1. The property of the sand mould which allows the casting to shrink without causing cracks inside the casting is known as:
☒ a. Permeability
☐ b. Shakability
☐ c. Reusability
☒ d. Collapsibility
2. Chills are used in castings to
☒ a. Reduce blow holes
☐ b. Achieve directional solidification
☒ c. Reduce the freezing time
☐ d. Achieve high surface finish of the cast products
3. In hot chamber die casting process the alloys being normally cast have
☒ a. High melting point
☐ b. Both high as well as low melting point
☒ c. Low melting point
☐ d. All of the above
4. In sand casting process to compensate liquid shrinkage which of the following is utilised
☒ a. Choke
☐ b. Gates
☒ c. Riser
☐ d. Shrinkage allowance on pattern riser
5. Which of the following material is not used for making of patterns
☒ a. Aluminium
☐ b. Wax
☐ c. Lead
☒ d. Mercury
6. In shell mould casting process the shell is made out of:
☒ a. Wax
☐ b. Plastic
☒ c. Metal
☒ d. Silica sand
7. Draft is provided to
☐ a. Compensate solid shrinkage phenomenon
☐ b. Create hollow castings
☐ c. Facilitate easy withdrawal of the pattern
☐ d. Help in faster cooling of the molten metal

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8. Core prints are provided on patterns

- a. To support and locate the core
- b. To help avoid usage of the core
- c. To help in easy removal of the core
- d. All of the above

9. In centrifugal castings, impurities are:

- a. Uniformly distributed in the casting
- b. Forced towards the outer surface
- c. Get collected towards the centre of the casting
- d. None of the above

10. Expendable moulds are made out of

- a. Sand
- b. Plaster of paris
- c. Ceramics
- d. All of the above

11. The casting process normally used for zinc alloys is

- a. Ceramic casting
- b. Investment casting
- c. Die casting
- d. Shell mould casting

12. Which of the following process can be used for seamless tube production

- a. Embossing
- b. Blanking
- c. Rotary tube piercing
- d. Roll forging

13. Which of the following forging operation produce flash

- a. Heading
- b. Open die forging
- c. Closed die forging
- d. Coining

14. In rolling process at the neutral point

- a. The velocity of the roll exceeds the velocity of the work blank
- b. The velocity of the roll is less than the velocity of the work blank
- c. The velocity of the roll and the velocity of the work blank is equal
- d. The velocity of the roll may be higher or lower than the velocity of the work blank depending on the process parameters.

15. Steel balls can be easily produced by

- a. Rolling process
- b. Drawing process
- c. Extrusion
- d. Upsetting