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Courses » Theory of Production Processes

Announcements **Course** Ask a Question Progress Mentor

Unit 3 - Week 2

Course outline

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Week 1

Week 2

- Lecture 6: Technology of patternmaking: Pattern materials
- Lecture 7: Patternmaking: Types of pattern & allowances
- Lecture 8: Molding sand ingredients and sand testing methods
- Lecture 9: Sand molding methods
- Lecture 10: Coremaking: Properties and types of cores
- Quiz : Assignment 2
- Feedback Week-2
- Solution of assignment 2

Assignment 2

The due date for submitting this assignment has passed. **Due on 2018-02-07, 23:59 IST.**

Submitted assignment

1) Which of the following property is required for good wax pattern **1 point**

- High melting point
- High wettability
- High ash content
- Low hardness

No, the answer is incorrect.
Score: 0

Accepted Answers:
High wettability

2) Which of the following statement is/are true for draft allowance? **1 point**

- (i) The inner surface of the pattern requires lesser draft than the outer surface.
- (ii) More draft should be provided for hand moulding compared to machine moulding.

- Only i
- Only ii
- Both i and ii
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Only ii

3) Muller is used for **1 point**

- remove small pieces of metal or foreign particles
- remove iron particles from sand

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4) Permeability of sand can be defined as **1 point**

- Property of sand due to which sand grains stick together
- Ability to held firmly in the moulding box when lifted
- Property of sand due to which gases are escaped from sand
- Ability of sand to withstand heat of melt without fusing or breakdown

No, the answer is incorrect.
Score: 0

Accepted Answers:
Property of sand due to which gases are escaped from sand

5) Which of the following is used for making cavities and hollow projections in casting? **1 point**

- Core
- Core print
- Muller
- Padding

No, the answer is incorrect.
Score: 0

Accepted Answers:
Core

6) Recess provided in the material for locating and positioning of cores is called as **1 point**

- Chill
- Slinging
- Core print
- Core

No, the answer is incorrect.
Score: 0

Accepted Answers:
Core print

7) Which one of the following is not a property of a sand mould? **1 point**

- Permeability
- Collapsibility
- Strength
- Fluidity

No, the answer is incorrect.
Score: 0

Accepted Answers:
Fluidity

8) Wood flour is added to core sand to improve **1 point**

- Collapsibility of core
- Dry strength of core
- Shear strength of core
- Tolerance on casting

No, the answer is incorrect.

Score: 0

Accepted Answers:

Collapsibility of core

9) Match the following according to the properties of moulding sand 1 point

- | | |
|--------------------|--|
| (A) Cohesiveness | (i) Ability to break the mould with little force |
| (B) Adhesiveness | (ii) Ability to withstand higher temperature without losing strength |
| (C) Refractoriness | (iii) Ability of bond formation of sand particles with other materials |
| (D) Collapsibility | (iv) Ability to form bond between sand particles |

- A-iii, B-ii, C-i, D-iv
- A-ii, B-i, C-iii, D-iv
- A-i, B-iii, C-iv, D-ii
- A-iv, B-iii, C-ii, D-i

No, the answer is incorrect.

Score: 0

Accepted Answers:

A-iv, B-iii, C-ii, D-i

10) Match the appropriate statement with the given types of pattern 1 point

- | | |
|--------------------------|---|
| (A) Cope & drag pattern | (i) Pattern should be entirely into the drag |
| (B) Gated pattern | (ii) Separate metal or wooden plates are aligned |
| (C) Single piece pattern | (iii) Several patterns may be fixed on single plate |
| (D) Match plate pattern | (iv) Runner system are an integral part |

- A-i, B-ii, C-iv, D-iii
- A-iv, B-iii, C-ii, D-i
- A-ii, B-iv, C-i, D-iii
- A-i, B-iv, C-ii, D-iii

No, the answer is incorrect.

Score: 0

Accepted Answers:

A-ii, B-iv, C-i, D-iii

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