Vivekanand College Kolhapur (Empowered Autonomous) B.VOC -I_SEM-I INTERNAL EXAM

Subject: Pattern Construction Technology
SubCode: MIN23FTE11
Date: 19/11/2023
Total Marks: 20

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Instruction: 1. All Questions are Compusory 2. Each Question carries 1 Marks

Which material is commonly used for making patterns due to its ability to withstand high temperatures and maintain dimensional accuracy? * 1 point

- ○ a) Wood
- ○ b) Plastic
- ◉ c) Metal
- ○ d) Wax

The skeleton pattern is filled with sand. * 1 point

- ◉ a) True
- ○ b) False

What is the role of a core print in pattern making? * 1 point

- ○ a) To provide structural support to the pattern
- ○ b) To indicate the parting line of the pattern
- ○ c) To create internal cavities in the casting
- ◉ d) To support and position the cores within the mold

Which pattern type is used for producing complex castings that have sections arranged at different angles? * 1 point

- (●) a) Split pattern
- ( ) b) Sweep pattern
- ( ) c) Match plate pattern
- ( ) d) Cope and drag pattern

What technique involves making patterns directly in the sand without creating a separate pattern? * 1 point

- (●) a) Shell molding
- ( ) b) Loose-piece pattern
- ( ) c) Sweep pattern
- ( ) d) Cope and drag pattern

Which pattern-making method involves the use of two identical patterns mounted on opposite sides of a gating system? * 1 point

- ( ) a) Split pattern
- (●) b) Match plate pattern
- ( ) c) Cope and drag pattern
- ( ) d) Follow board pattern

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In pattern making, what is the purpose of a draft allowance? * 1 point

- ○ a) To allow for the shrinkage of the metal
- ◉ b) To facilitate easy pattern removal from the mold
- ○ c) To improve the surface finish of the casting
- ○ d) To adjust the dimensions of the pattern

What does a chaplet do in pattern making? * 1 point

- ◉ a) Supports cores within the mold
- ○ b) Secures the pattern to the gating system
- ○ c) Provides additional venting for gases
- ○ d) Controls the pouring rate of molten metal

Which pattern type is used for creating identical halves of a casting with a parting line down the middle? * 1 point

- ○ a) Follow board pattern
- ○ b) Split pattern
- ◉ c) Match plate pattern
- ○ d) Loose-piece pattern

What is the primary advantage of using metal patterns over wooden patterns in foundry work? * 1 point

- a) Metal patterns are easier to modify.
- b) Metal patterns are cheaper to produce.
- (●) c) Metal patterns have better dimensional stability.
- d) Metal patterns can be reused more times

What is the purpose of the riser in pattern making? * 1 point

- (●) a) To provide a way for excess metal to escape the mold
- b) To create a smooth surface finish on the casting
- c) To support the gating system
- d) To mark the location of the parting line

Which pattern type is designed to create complex, curved surfaces in a single continuous form? * 1 point

- a) Follow board pattern
- b) Sweep pattern
- (●) c) Match plate pattern
- d) Loose-piece pattern

What is the primary function of a pattern in the foundry process? * 1 point

- a) To create the gating system
- b) To provide a template for the final casting
- c) To facilitate the cooling of the molten metal
- (●) d) To create the mold cavity

What type of pattern is used when the desired casting has a shape that is difficult to replicate with traditional patterns? * 1 point

- a) Match plate pattern
- b) Sweep pattern
- (●) c) Loose-piece pattern
- d) Shell molding

Which pattern-making method involves rotating a pattern around a central axis to create symmetrical shapes? * 1 point

- a) Split pattern
- b) Follow board pattern
- (●) c) Sweep pattern
- d) Loose-piece pattern

What is the primary purpose of a Sprue in pattern making? * 1 point

- a) To connect the gating system to the pattern
- b) To cool the molten metal
- c) To provide a vent for gases
- d) To guide the flow of metal into the mold

Which pattern-making method involves creating a pattern directly on a mold surface using a template or a model? * 1 point

- a) Sweep pattern
- b) Loose-piece pattern
- c) Match plate pattern
- d) Follow board pattern

What is the primary function of a cope and drag in pattern making? * 1 point

- a) To create a parting line
- b) To secure the pattern to the molding box
- c) To support the gating system
- d) To form the upper and lower halves of the mold

Which pattern type is used for creating a casting with a hollow cavity? * 1 point

- ○ a) Match plate pattern
- ◉ b) Core print pattern
- ○ c) Follow board pattern
- ○ d) Sweep pattern

What is the purpose of a gating system in pattern making? * 1 point

- ○ a) To create the final shape of the casting
- ○ b) To facilitate the removal of the pattern from the mold
- ◉ c) To control the flow of molten metal into the mold
- ○ d) To cool the metal rapidly after pouring

[Mr. Sidhant Karnik]
Subject Teacher

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