Assignment No. 5

The due date for submitting this assignment has passed. Due on 2019-09-04, 23:59 IST. As per our records you have not submitted this assignment.

1) A cube shaped casting "X" solidifies in 5 min. The solidification time in min for a cube shaped casting "Y" of the same material, which is 8 times heavier than the original casting "X", will be 1 point

- 10
- 20
- 24
- 40

No, the answer is incorrect.
Score: 0
Accepted Answers: 20

2) A sand casting mould assembly is shown in the given figure. The elements marked A and B are respectively 1 point

- Sprue and riser
Ingate and riser  
Drag and riser  
Riser and runner  

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
Sprue and riser

3) Casting defect caused by poor moulding strength  
- Blow holes  
- Pin hole porosity  
- Swell  
- Hard spot

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
Swell

4) Poor ramming during the mould preparation causes  
- Drop  
- Air inclusion  
- Hot tears  
- All of the above

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
Drop

5) Match the following defect (Group 1) with the property (Group 2)  
- 1. Hot tears  
- 2. Porosity  
- 3. Sand inclusions  
- 4. Shrinkage cavity

1-B, 2-A, 3-D, 4-C  
1-C, 2-A, 3-B, 4-D  
1-A, 2-D, 3-C, 4-B  
1-D, 2-A, 3-B, 4-C

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
1-D, 2-A, 3-B, 4-C

6) Select the correct option which are employed in shell moulding  
1. Resin binder  
2. Metal pattern  
3. Heating coils

1 and 2 only  
1 and 3 only  
2 and 3 only  
1, 2 and 3
No, the answer is incorrect. 
Score: 0
Accepted Answers:  
1, 2 and 3

7) Investment casting is preferred for manufacturing of 

- Turbine blade  
- Turbine rotor  
- Connecting rods  
- Cast iron pipes

No, the answer is incorrect. 
Score: 0 
Accepted Answers:  
Turbine blade

8) To reduce the soldering and thermal shock tendency in permanent mould casting, elements added is/are

- Sodium silicate  
- Kaolite  
- Talc  
- Mixture of all three

No, the answer is incorrect. 
Score: 0 
Accepted Answers:  
Mixture of all three

9) Match the casting defect with the probable causes

1. Misrun  
2. Shrinkage  
3. Blow holes  
4. Cold shut

- A. Improper fusion of two streams of liquid metal  
- B. Low permeability of the sand mould  
- C. Volumetric contraction both in solid and liquid state  
- D. Insufficient fluidity of the molten metal

- 1-A, 2-C, 3-B, 4-D  
- 1-D, 2-C, 3-B, 4-A  
- 1-C, 2-D, 3-B, 4-C  
- 1-A, 2-B, 3-D, 4-C

No, the answer is incorrect. 
Score: 0 
Accepted Answers:  
1-D, 2-C, 3-B, 4-A

10) In case of plastic deformation based process where metal like steel is deformed at room temperature

- Ductility decreases  
- Hardness decreases  
- Strength increases  
- Strength decreases

No, the answer is incorrect. 
Score: 0 
Accepted Answers: 
Strength increases