X

Unit 2 - Week 1

Assignment 1

The due date for submitting this assignment has passed. **Due on 2018-02-05, 23:59 IST.**

Submitted assignment

1) Which of the following statement is true regarding growth process? ***1 point***

- It occurs in the direction of heat transfer
- It occurs in the direction opposite to that of heat transfer
- It is followed by nucleation process
- It is not required in case of metals as they solidify at constant temperature

No, the answer is incorrect.
Score: 0

Accepted Answers:
It occurs in the direction opposite to that of heat transfer

2) Which property of a material is used for Casting it into a desired shape ***1 point***

- Strength
- Fluidity
- Ductility
- Formability

No, the answer is incorrect.
Score: 0

Accepted Answers:
Fluidity

3) Width of the freeze wave lines i.e. Duration of time between start and finish of solidification lines, in case of sand mould as compared to metal mould will be ***1 point***

- More
- Less

Week 7
Week 8
Week 9
Week 10
Week 11
Week 12
DOWNLOAD VIDEOS

More

4) The ratio of surface energy term to volume energy term for critical radius during solidification process is **1 point**

- -3/2
- -2/3
- -5/6
- -7/12

No, the answer is incorrect.
Score: 0

Accepted Answers:
-3/2

5) Pure aluminium melts at 667^{o}C. At 690^{o}C, free energy of molten aluminium with respect to free energy of aluminium in solid state is **1 point**

- Larger
- Smaller
- Equal
- Can't be said

No, the answer is incorrect.
Score: 0

Accepted Answers:
Smaller

6) Constitutional supercooling is experienced in case of **1 point**

- pure metals
- alloys with large freezing range
- alloys with eutectic composition
- pure metals having large melting temperature

No, the answer is incorrect.
Score: 0

Accepted Answers:
alloys with large freezing range

7) For any transformation to take place from one phase of a material to another, free energy change **1 point**

- Should be positive
- Should be negative
- Should be zero
- Has no role

No, the answer is incorrect.
Score: 0

Accepted Answers:
Should be negative

8) With increase in temperature of the molten material, the fluidity **1 point**

- Increases

- Decreases
- First increases then decreases
- First decreases then increases

No, the answer is incorrect.
Score: 0

Accepted Answers:
Increases

9) Lower value of fluidity may lead to which kind of casting defect? ***1 point***

- Misrun and cold shut
- Metal penetration
- Shrinkage
- Blow holes

No, the answer is incorrect.
Score: 0

Accepted Answers:
Misrun and cold shut

10) Formation of dendritic structure is a characteristics of solidified structure of ***1 point***

- Pure metal
- Alloys with large freezing range
- Alloys with eutectic composition
- Pure metals of large melting point

No, the answer is incorrect.
Score: 0

Accepted Answers:
Alloys with large freezing range

Previous Page End