Week 7 Assignment 7

The due date for submitting this assignment has passed. Due on 2018-03-28, 23:59 IST.

Submitted assignment

1) In polycondensation reaction the power consumption of stirrer motor is used to determine-  
   (a) PDI  
   (b) Melt-viscosity  
   (c) Reaction rate  
   (d) Rate of by-product formation

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
(b) Melt-viscosity

2) In Amoco process titanium reactor is used due to-  
   (a) High corrosion resistance property  
   (b) Low cost  
   (c) Catalytic property  
   (d) All the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
(a) High corrosion resistance property

3) Which of the following statement is true?  
   (a) PET is easier to crystallize than PBT  
   (b) PET is difficult to crystallize than PBT  
   (c) PET and PBT have same propensity to crystallize  
   (d) None of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
(b) PET is difficult to crystallize than PBT
4) In the following graph

- (a) A is stiffer than C, B is tougher than A
- (b) C is stiffer than A, B is tougher than A
- (c) A is stiffer than C, C is tougher than A
- (d) B is stiffer than A, C is tougher than A

No, the answer is incorrect.
Score: 0
Accepted Answers:
(c) A is stiffer than C, C is tougher than A

5) What is the name of the following polymer?

- (a) Nylon 100
- (b) Nylon 5.1
- (c) Nylon 1.5
- (d) Nylon 5.3

No, the answer is incorrect.
Score: 0
Accepted Answers:
(d) Nylon 5.3

6) Nylon 6,6 synthesized by-

- (a) Direct amidation
- (b) Self amidation
- (c) Ring opening polymerization
- (d) All the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
(a) Direct amidation

7) Which of the following is true for Dimethyl Terephthalate process for PET synthesis?

- (a) Equi-molar monomers are taken
- (b) Methanol is removed
- (c) Ethylene glycol is removed
- (d) Single stage process

No, the answer is incorrect.
Score: 0
8) What is/are the function of reciprocating screw in injection molding?

- (a) Heats up the material
- (b) Pushes the materials forward
- (c) To reduce the viscosity by reducing molecular weight
- (d) To induce crystallinity

No, the answer is incorrect.
Score: 0

Accepted Answers:
(a) Heats up the material
(b) Pushes the materials forward

9) In a polycondensation reaction of 20 mole of Hexamethylenediamine with equi-molar adipic acid, how many moles of water are produced (as a by-product)?

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Numeric) 39

10) Cold crystallization of polymers occurs

- (a) During heating
- (b) During cooling
- (c) Below the glass-transition temperature
- (d) Above the glass-transition temperature

No, the answer is incorrect.
Score: 0

Accepted Answers:
(a) During heating
(d) Above the glass-transition temperature