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NPTEL

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Courses » Principles of Polymer Synthesis

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## Unit 8 - Week 7

### Course outline

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- Lecture 31: Design of Chemical Reactors (Contd..)
- Lecture 32: Synthesis of industrial polymers
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Week 8

### 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- **1 point**

- (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- **1 point**

- (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? **1 point**

- (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**

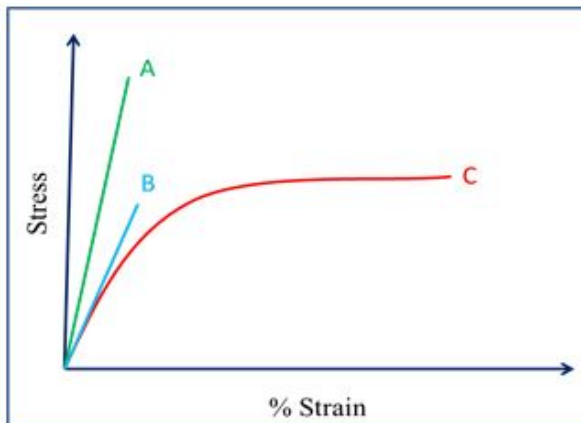
**Accepted Answers:**

*(b) PET is difficult to crystallize than PBT*

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4) In the following graph

1 point



- (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.

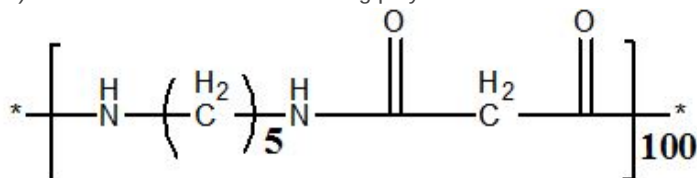
Score: 0

Accepted Answers:

(c) A is stiffer than C, C is tougher than A

5) What is the name of the following polymer?

1 point



- (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-

1 point

- (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

1 point

- (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

**Accepted Answers:**

- (b) Methanol is removed*  
*(c) Ethylene glycol is removed*

8) What is/are the function of reciprocating screw in injection molding?

1 point

- (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*

1 point

10) Cold crystallization of polymers occurs

1 point

- (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*

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