

Polymers

1. The manufacture of nylon-6 involves condensation of

- (a) Phenol and formaldehyde
- (b) Urea and formaldehyde
- (c) Adipic acid and hexamethylene diamine
- (d) Ethylene glycol and phthalic acid

▼ **Answer**

Answer: c

2. Match List-I and List-II and select the correct answer using the codes below the lists:

| List-I | | List-II | | |
|---------------|-----|---------------------|-------|------|
| (i) PMMA | | 1. Polyester | | |
| (ii) Terylene | | 2. PTEF | | |
| (iii) Teflon | | 3. Synthetic rubber | | |
| (iv) Neoprene | | 4. Polyacrylate | | |
| | (i) | (ii) | (iii) | (iv) |
| (a) | 2 | 3 | 1 | 4 |
| (b) | 2 | 3 | 4 | 1 |
| (c) | 4 | 1 | 3 | 2 |
| (d) | 4 | 1 | 2 | 3 |

▼ Answer

Answer: d

3. $\text{F}_2\text{C} = \text{CF}_2$ is a monomer of

- (a) Teflon
- (b) Glyptal
- (c) Nylon-6
- (d) Buna-S

▼ Answer

Answer: a

4. Which of the following is used in tyre cords?

- (a) Terylene
- (b) Polyethylene
- (c) Polypropylene
- (d) Nylon-6

▼ Answer

Answer: d

5. PHBV has _____ type of linkages

- (a) Amide
- (b) Ester
- (c) Diene
- (d) Nitrile

▼ Answer

Answer: b

6. The vulcanised rubber has

- (a) High water absorption, resistant to oxidation and good elasticity
- (b) High water absorption, susceptible to oxidation and no elasticity
- (c) High water absorption, susceptible to oxidation and good elasticity
- (d) Low water absorption, resistance to oxidation and good elasticity.

▼ **Answer**

Answer: d

7. Zeigler – Natta catalyst is used in making

- (a) LDPE
- (b) HDPE
- (c) Polystyrene
- (d) PMMA

▼ **Answer**

Answer: b

8. Natural rubber is a polymer of

- (a) Butadiene
- (b) Ethyne
- (c) Styrene
- (d) Isoprene

▼ **Answer**

Answer: d

9. Which of the following is a biodegradable polymer?

- (a) Cellulose
- (b) Polyethylene
- (c) PVC
- (d) Nylon-6

▼ **Answer**

Answer: a

10. A polymer of butadiene and acrylonitrile is called

- (a) Buna-2
- (b) Buna-N
- (c) Buna-S
- (d) Buna-A

▼ Answer

Answer: b
