

: નોંધ :

B.Sc. Sem-6

27 AUG 2020

Sub code: 21869

૧. દરેક પ્રશ્નનો [a] અથવા [a(i)] અને [a(ii)] ૧ લખવાના રહેશે.

૨. પ્રશ્ન : ૧[a] અથવા ૧[a(i)] અને ૧[a(ii)] તથા ૨[a] અથવા ૨[a(i)] અને ૨[a(ii)] ના 14 માર્ક્સ ના બદલે ૧૮ માર્ક્સ રહેશે.

૩. પ્રશ્ન : ૩[a] અથવા ૩[a(i)] અને ૩[a(ii)] તથા ૪[a] અથવા ૪[a(i)] અને ૪[a(ii)] ના 14 માર્ક્સ ના બદલે ૧૭ માર્ક્સ રહેશે.

૪. દરેક પ્રશ્નનો પ્રશ્ન નં ૧(b), પ્રશ્ન નં ૨(b), પ્રશ્ન નં ૩(b) તથા પ્રશ્ન નં ૪(b) (ટુંકા પ્રશ્નો) વિદ્યાર્થીએ લખવાના નથી.

- Que.1 (A) Give brief account on synthetic rubber? How SBR rubber is industrially produced? [14]
- OR
- Que.1 (A-1) What is polymerization? Detailed classification polymers. [07]
- (A-II) Discuss industrial production of acrylonitrile. [07]
- Que.1 (B) Give the answer of following question. (Any four) [04]
- (1) Which two categories polymerization is classified?
- (2) -A-B-A-B-A-B- is called _____ polymer?
- (3) What is latex?
- (4) Which monomer compounds are used for the manufacturing of Buna-N rubber?
- (5) Which compound is used to increase plasticity of Neoprene rubber?
- (6) From which type of refinery gas butadiene is produced?
- Que.2 (A) Detail physical properties, chemical properties, applications and manufacturing process of polystyrene. [14]
- OR
- Que.2 (A-1) Give detailed account on manufacturing process of polyvinyl chloride. [07]
- (A-II) Discuss physical, chemical properties and applications of polyethylene. [07]
- Que.2 (B) Give the answer of following question. (Any four) [04]
- (1) What is the monomer compound for the manufacturing of polyvinyl acetate?
- (2) Give any two application of polypropylene.
- (3) What is the structure of teflon?
- (4) Which gas is used to prevent oxidation of monomer compound in various polymer reactions?
- (5) Which catalyst is used to produce polyvinyl acetate?
- (6) In which solvent titanium trichloride catalyst is mixed?
- Que.3 (A) Explain phenolic resin with manufacturing process of Phenol formaldehyde. [14]
- OR
- Que.3 (A-1) Discuss alkyd resin in detail. [07]
- (A-II) How novolak resin is formed? Explain with synthesis. [07]

- Que.3 (B) Give the answer of following question. (Any three) [03]
- (1) What is the another name of phenol formaldehyde resin?
 - (2) What is thermosetting plastic polymer?
 - (3) Who invented bakelite first time?
 - (4) What is the temperature required for the manufacturing of melamine formaldehyde resin?
 - (5) Which component is used for the manufacturing of alkyd resin?
- Que.4 (A) What is rayon? Explain industrial production of viscose rayon. [14]
- OR
- Que.4 (A-I) Explain synthetic fibre saran in detail. [07]
- (A-II) Give physical properties, chemical properties, applications and synthesis of Nylon 6. [07]
- Que.4 (B) Give the answer of following question. (Any three) [03]
- (1) Draw the chemical structure of adipic acid.
 - (2) Which compound is used to stabilize nylon polymer length?
 - (3) What is the raw material for the manufacturing of terylene?
 - (4) Give any two application of nylon 6, 6.
 - (5) What is the another name of orlan?