

B.Sc. Sem. 6 Ind. Chem : નોંધ :

U 2 NOV 2020

Sub. Code. 21871

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) Discuss about aromatic heterocyclic intermediate compound in detail. [14]
 OR
 Que.1 (A-I) Write a details account on Armstrong's theory. [07]
 (A-II) Give synthesis of R-acid and Gama-acid. [07]
- Que.1 (B) Give the answer of following question. (Any four) [04]
 (1) According to Witt's theory Dye = _____ + _____.
 (2) Which wave length light is visible for human eye?
 (3) Which salt is used in fast printing green dye?
 (4) Give structure of H-acid.
 (5) _____ dyes are used to dye fibre having basic group.
 (6) Picric acid, Metanil yellow, orange II etc. are example of _____ dyes.
- Que.2 (A) Discuss about pigment dye in detail. [14]
 OR
 Que.2 (A-I) Give synthesis of remazole green and procian red. [07]
 (A-II) Give synthesis of sulphur blue-9 and sulphur blue-13. [07]
- Que.2 (B) Give the answer of following question. (Any four) [04]
 (1) The dyeing with reactive dyes is carried out at _____ °C.
 (2) Who introduced remazole dyes for wool, silk and polyamide?
 (3) Give full name of AAC.
 (4) _____ are water insoluble products made by precipitation of water soluble dyes.
 (5) Azo pigment and non-azo pigments are types of _____ pigments.
 (6) What is difference between dyes and pigment?
- Que.3 (A) Discuss about nitro dye in detail. [14]
 OR
 Que.3 (A-I) Give synthesis of naphthol green and disperse yellow. [07]
 (A-II) Give synthesis of acridine and acriflavine. [07]

- Que.3 (B) Give the answer of following question. (Any three) [03]
- (1) _____ dyes are obtained by the action of nitrous acid on phenols and naphthols.
 - (2) Fast green – O is example of _____ dyes.
 - (3) Which dyes is used in the detection of cobalt in the presence of nickel?
 - (4) Malachite green series contains _____ amino groups.
 - (5) Rosaniline is used to dye wool and silk producing _____ colour.
- Que.4 (A) Give synthesis and industrial application of direct black EW and rodamine B. [14]
- OR
- Que.4 (A-I) Give synthesis and industrial application of auramine. [07]
- (A-II) Give synthesis and industrial application of alizarin. [07]
- Que.4 (B) Give the answer of following question. (Any three) [03]
- (1) _____ dye is a chrome azo dye.
 - (2) Which dye is prepared from benzidine?
 - (3) Which dyes sodium salt is known as uramine?
 - (4) Which dye is used in Calico printing?
 - (5) For which colour cation Ca^{+2} is used?