M.SC. (I.C.) Sem. 4 : all:

Sub code: 3571

વ. દરેક પ્રશ્નનો [a] અથવા [a(i)] અને [a(ii)] જ 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 માર્કસ ના ગદલે ૧૮ માર્કસ ૨હેશે.

3. પ્રશ્ન : ર્ર[a] અથવા ર્ર[a(i)] અને ર્ર્ગ[a(ii)] તથા ર્જ[a] અથવા ર્જ[a(i)] અને ર્જ[a(ii)] ના 14 માર્કસ ના બદલે ૧૯ માર્કસ રહેશે.

૪. દરેક પ્રશ્વનો પ્રશ્વ ન વ(b), પ્રશ્વ ન ર(b), પ્રશ્વ ન ૩(b) તથા પ્રશ્વ ન ૪(b) (ટુંકા પ્રશ્વો) વિદ્યાર્થીએ લખવાના નથી.

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Que.1	(A)	What is color? Give a relation between color and chemical constitution with help of Armstrong theory. OR	[14]
Que.1	(A-1)	Give synthesis and application of Gama – acid and R – acid.	[07]
	(A-1I)	Give synthesis and application of 1, 2, 4 – acid and A.A.A.	[07]
Que.1	(B)	Give the answer of following question. (Any four)	[04]
	(1)	Give melting point of acetoacetanilide.	
	(2)	Give full name of T.E.A.	
	(3)	Alkali fusion of sodium naphthalene β – sulphonate gives product.	
	(4)	Which compound is used for rapid melting of naphthalene in sulphonation kettle for production of β – naphthol?	
	(5)	Give molecular weight of Bon – acid.	
	(6)	2 – Naphthol – 6, 8 di sulphonic acid is also known as	
Que.2	(A)	What do you mean by reactive dyes? Explain it in detail.	[14]
Que.2	(A-1)	OR Give synthesis and emplication of months IAS	[07]
Que.2	,	Give synthesis and application of naphthol AS.	[07]
	(A-1I)	Give synthesis and application of naphthol ASG.	[07]
Que.2	(B)	Give the answer of following question. (Any four)	[04]
	(1)	Give full name of I.C.I.	
	(2)	In which year first reactive dyes were introduced?	
	(3)	Ultramarine blue absorb light.	
	(4)	Over 80% of the fluorescent brightening agents in use arederivatives.	
	(5)	Give full name of A.A.C.	
	(6)	In which year remazole introduced?	
Que.3	(A)	Discuss DPM and TPM dyes.	[14]
	\ 7	OR	۲۰,۱
Que.3	(A-1)	Give synthesis and application of florescence.	[07]
	(A-1I)	Give synthesis and application of eosin.	[07]

(Page: 1/2)

Que.3	(B)	Give the answer of following question. (Any three)	[03]
	(1)	Phenolphthalein is colour crystalline solid.	
	(2)	is used as a laxative in medicine.	
	(3)	Which product was obtained by interaction of 1 mole phthalic anhydride with 2 mole resorcinol?	
	(4)	The sodium salt of fluorescein is known as	
	(5)	dyes are having a solubilizing group such as sulfonic acid.	
Que.4	(A)	Write a note on pH indicators, oxidation-reduction indicators, adsorption indicators and precipitates determination metals as dyes. OR	[14]
Que.4	(A-1)	Write a note on food dyes.	[07]
	(A-1I)	Write a note on leather dyes.	[07]
Que.4	(B)	Give the answer of following question. (Any three)	[03]
	(1)	Natural leather is substance.	
	(2)	Finished leather can be dyed with dyes.	
	(3)	Paper is a material.	
	(4)	Which dye is used for detection of Co metal?	
	(5)	Which dye is used for detection of Ca and Mg metal?	

(Page: 2/2)