Seat No. (02)		No. of Printed Pages: 2
(42/A16) S.	ARDAR PATEL UNIVERSITY 7. B.Sc. (Semester VI) Examination	L. Write in brief about Mordaul dy
Date: 26 March 2018, Monday	THE THEFT STORM R HERRY COURTS OFF	Time: 10:00 AM to 1:00 PM
COURSE NO H	Industrial Chemistry S06CICH01 (Synthetic Dyes and Inte	3. Dive as the role played by claim
Note: Figures to the right indicate f	full marks - ban bion-11 a morting	House box Total Marks: 70
	on, of Blue Black 6B.	5. Write down the synthesis of Nar
Q.1 Answer the following Multiple	Choice Questions. (All are compulsor	y) 10 a, 1 to surprise (10) w
1. The groups which lead to the dee	epening of colour of organic substance	are called discount and of principle
A. Auxochromes	C. Oxidizable Groups	8. Define Reactive dyes and Little
B. Chromophores	D. Reducible Groups	
2. Azo dyes are formed in	stepssteps.	10. Mention the ment by which an
A. One	C. Three	11. Write the reaction for the exis-
B. Two		
3. Orange-II is prepared by coupling	g benzene diazonium chloride with	
A. α-Naphthol	nongoin C. Phenol	O.3. Discuss the classification of a sec-
B. β-Naphthol	D. Toluene	
4. Anthraquinone vat dyes are the d	lyes used in theirst	ate detail with a throsp in detail.
A. Oxidized	C. Neutral	
B. Reduced	D. None of the above	Q.4. Write a note on full aways = -
5. Cyanuric chloride is used in the	synthesis of dyes as reacti	
A. Procion		(B) Direct Method of diazotization
B. Remazol	D. Vat	
6NO ₂ , -NO, -N=N- groups are kn	nown as entree to me on the both of	O. J. Explain mechanism of diagotization
A. Auxochromes	C. Electron Releasing gr	
B. Chromophores	D. None of them	Q.5. Write a more on following:
7. Silver nitrate method is used for	the estimation of	So white a note on tonowing
A. Chromium	C. Copper	
B. Nickel	D. Chloride	(B) Method of Application of Rea
8. The reagent used for strong acids	s is	
A. Phenolphthalein paper	C. Congo red paper	O.S. (A) Discuss Anthraquinon - Mordo
B. Thiazole paper	D. Lead paper	(B) Give synthesis of Indentirone
9. Types of dye binding to the fibre	e are	O.6. (A) Discuss the procedure for the
A. Covalent and Ionic bonds	C. Van der waals forces	
B. Hydrogen bond	D. All of the above	(B) Discuss the procedure for Lsti
10. Congo red dye is prepared by c	oupling tetrazotized benzidine with two	o molecules of
A. α-Naphthyl amine-4-sulphoni	ic acid C. Phenol-4-sulphonic ac	Q.o. (A) Discuss the procedure for 1-sh
B. β-Naphthyl amine-4-sulphoni	ic acid D. p-Toluene sulphonic	(B) Discuss the procedure for delight
		(P.7.0.)
	- X-	

2.2. Answer the following short questions. (ANY TEN)	(20)
1. Write in brief about Mordant dyes	
2. What are the impacts on colour of the substance when a white light is incident	on it?
3. Discuss the role played by change in dipole moment in explaining the colour o	f substance.
4. Indicate the medium and coupling position in H-acid and J-acid.	and the state of the
5. Write down the synthesis of Naphthol Blue Black 6B.	•
o. Write the structure of 1,0-cleve's acid and continuous pie acid.	Equipment of the control of
7. Write down the synthesis of Procion Brilliant Red 5B.	Company of the compan
8. Define Reactive dyes and list its limitations.	ee dhegaal ji
9. Giving the structure of Thioindigo dyes, indicate a chromophoric part of the dy	ye.
10. Mention the names by which aminonaphtholsulphonic acid are determined and	
11. Write the reaction for the estimation of -N=N- group.	
12. What do you mean by Iodimetry and Iodometry titration?	1.5
	e english a general
Q.3. Discuss the classification of dyes on the basis of mode of application	(10)
OR	क्षा सुर्वे सम्बद्धी है ।
Q.3. Explain Witt's theory in detail.	
2.5. Zapitim Wite a moory in admin.	A second
Q.4. Write a note on following:	
(A) Lapworth's notation for Azo dyes	(5) Preference (5)
(B) Direct Method of diazotization of Azo dyes	(5)
OR	· San A
Q.4. Explain mechanism of diazotization and write a note on classification of Azo dye	
Q.4. Explain inechanism of diazonization and write a note on classification of Azo aye	a in takip Majih Mili
	emakananyen (3.4)
Q.5. Write a note on following:	
(A) Role of levelling and Dispersing agents in Disperse dyes	(5)
(B) Method of Application of Reactive Dyes.	(5)
OR	
Q.5. (A) Discuss Anthraquinone Mordant Dyes.	(6)
(B) Give synthesis of Indenthrone from 1,5-diaminoanthraquinone	(4)
	At en Miller Miller
Q.6. (A) Discuss the procedure for the direct determination of amines	(5)
(B) Discuss the procedure for Estimation of chromium	(5)
OR OR	स्य स्थापिककृत्यस्य स्थापिक हो।
O.6. (A) Discuss the procedure for Estimation of fluoride by SPADNS method	(5)
(B) Discuss the procedure for determination of α -naphthol and β -naphthol	2 के 19 के 19 में के के 19 कि 19 (5)
	er og slågerde.

