

N°	C.I.N	NOM	PRENOM	P1									P2						P3									D.S					
				Energétique des Processus Physico-Chimiques			TP Thermodynamique et Cinétique			Chimie organique			Moyenne P1	Electrochimie Appliquée			Chimie des solutions			Moyenne P2	Analyse Qualitative Inorganique			Etat Solide et Métallurgie			TP Inorganique			Moyenne P3			
				C.C	EXM	Moy	T.P	Moy		C.C	EXM	Moy		MOY	C.C	EXM	Moy	CC	EXM		Moy	MOY	D.S	EXM	Moy	D.S	EXM		Moy		T.P	Moy	MOY
				Coef. = 2			Coef. = 2			Coef. = 2				6	Coef. = 3			Coef. = 2			5	Coef. = 2			Coef. = 2				Coef. = 2			6	
CAI311			CAI314			CAI315			CAI31	CAI322			CAI323			CAI32	CAI332			CAI333			CAI335			CAI33							
(CC+2*EXM)/3			T.P			(CC+2*EXM)/3				(CC+2*EXM)/3			(CC+2*EXM)/3				(CC+2*EXM)/3			(CC+2*EXM)/3			T.P										
1	4940	ALLOUGUI	HANA	9.50	1.00	3.83	12.75	12.75	0.50	1.50	1.17	5.92	7.00	8.00	7.67	9.00	10.25	9.83	8.53	9.75	7.00	7.92	9.00	7.00	7.67	11.00	11.00	8.86	8.00				
2	8909	AMIRI	BARAA	Disp	Disp	10.83	Disp	14.50	2.75	5.50	4.58	9.97	5.50	6.00	5.83	8.00	12.00	10.67	7.77	Disp	Disp	8.50	Disp	Disp	8.00	Disp	14.50	10.47	Disp				
3	0246	Andolsi	Syrine	10.00	8.00	8.67	12.50	12.50	13.00	6.00	8.33	9.83	8.50	10.00	9.50	8.00	9.50	9.00	9.30	9.25	7.00	7.75	12.25	4.50	7.08	13.00	13.00	9.28	15.00				
4	5041	ANDOLSSI	FATMA	9.50	5.00	6.50	15.00	15.00	2.25	2.00	2.08	7.86	6.00	6.50	6.33	13.00	7.75	9.50	7.60	10.00	10.00	10.00	10.00	9.00	9.33	11.00	11.00	10.11	5.00				
5	8686	BEN AMEUR	RIHEM	15.00	15.00	15.00	15.00	15.00	7.50	10.25	9.33	13.11	12.00	10.00	10.67	13.00	11.00	11.67	11.07	12.25	14.25	13.58	11.00	9.50	10.00	16.00	16.00	13.19	11.50				
6	7698	BORNI	CHIRINE	9.50	14.00	12.50	13.00	13.00	8.00	7.00	7.33	10.94	12.50	6.50	8.50	14.50	18.00	16.83	11.83	4.25	6.00	5.42	7.00	8.50	8.00	12.00	12.00	8.47	9.00				
7	7088	BOUALI	SOUAD	11.50	12.50	12.17	14.50	14.50	12.25	10.00	10.75	12.47	13.50	11.50	12.17	10.00	10.00	10.00	11.30	10.00	6.00	7.33	14.50	8.00	10.17	13.00	13.00	10.17	12.00				
8	2549	BOUCHRIKA	KHALED			0.00	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00		0.00			0.00			0.00		0.00	0.00	0.00	0.00				
9	4001	DEBBABI	OUMAYMA	9.00	5.00	6.33	14.00	14.00	10.75	6.25	7.75	9.36	8.50	8.00	8.17	12.00	14.50	13.67	10.37	9.75	10.00	9.92	10.00	9.50	9.67	14.50	14.50	11.36	10.50				
10	4290	DHAOUADI	MOUHANNED	12.00	15.00	14.00	14.00	14.00	13.25	10.00	11.08	13.03	8.00	10.50	9.67	14.50	14.50	14.50	11.60	11.00	13.00	12.33	14.75	11.25	12.42	14.50	14.50	13.08	13.00				
11	4026	DHENE	YASMINE	12.50	10.00	10.83	14.00	14.00	8.25	8.00	8.08	10.97	7.00	12.00	10.33	10.00	13.50	12.33	11.13	10.00	16.00	14.00	11.25	13.25	12.58	12.00	12.00	12.86	7.00				
12	3624	GHARBI	EYA			0.00	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00		0.00			0.00			0.00		0.00	0.00	0.00	0.00				
13	9740	GHARSELAOUI	MARYEM	9.50	10.00	9.83	15.50	15.50	7.00	3.00	4.33	9.89	4.50	8.00	6.83	12.00	15.00	14.00	9.70	11.75	8.00	9.25	12.00	9.25	10.17	15.00	15.00	11.47	8.00				
14	4044	Hammi	Aya	13.50	10.00	11.17	14.00	14.00	14.25	9.50	11.08	12.08	9.00	10.00	9.67	13.50	13.00	13.17	11.07	9.75	8.00	8.58	10.75	8.00	8.92	13.50	13.50	10.33	5.00				
15	9467	Hamza	Hadil	14.00	14.25	14.17	10.00	10.00	11.25	4.00	6.42	10.20	7.00	2.00	3.67	9.00	8.00	8.33	5.53	11.75	7.00	8.58	8.50	5.25	6.33	13.00	13.00	9.30	10.50				
16	3544	HANCHI	IHEB			0.00	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00		0.00			0.00			0.00		0.00	0.00	0.00	Disp				
17	0221	Jendoubi	Cherifa	13.50	13.00	13.17	13.75	13.75	6.75	4.75	5.42	10.78	9.00	4.50	6.00	8.00	10.50	9.67	7.47	9.50	7.00	7.83	10.75	9.25	9.75	13.50	13.50	10.36	6.00				
18	4030	KHARBECH	MOLKA	10.00	10.75	10.50	16.00	16.00	6.00	4.25	4.83	10.44	9.00	10.50	10.00	13.50	12.25	12.67	11.07	11.00	10.50	10.67	13.75	11.75	12.42	13.50	13.50	12.20	8.50				
19	3288	KHEMIRI	SOUHA	11.50	11.00	11.17	16.00	16.00	6.50	5.25	5.67	10.95	5.00	5.00	5.00	16.50	8.50	11.17	7.47	15.25	15.00	15.08	9.00	13.00	11.67	12.00	12.00	12.92	11.50				
20	5293	KHEZAMI	EYA	13.00	13.25	13.17	15.25	15.25	10.50	5.25	7.00	11.81	13.50	8.50	10.17	14.00	15.00	14.67	11.97	11.00	7.00	8.33	11.50	14.25	13.33	11.50	11.50	11.05	13.50				
21	4205	Khari	Aya	15.00	5.00	8.33	10.50	10.50	9.25	3.00	5.08	7.97	10.00	3.50	5.67	9.50	11.00	10.50	7.60	6.75	8.00	7.58	9.50	11.00	10.50	11.50	11.50	9.86	6.50				
22	0200	MAATALLAH	IBTIHEL	8.50	6.00	6.83	Disp	13.00	5.00	5.50	5.33	8.39	9.00	5.00	6.33	10.00	9.00	9.33	7.53	Disp	Disp	10.08	Disp	Disp	9.83	Disp	13.00	10.88	Disp				
23	6009	Saidane	Jihane	12.50	14.50	13.83	14.00	14.00	6.75	5.00	5.58	11.14	10.00	12.00	11.33	10.00	12.00	11.33	11.33	11.50	8.00	9.17	12.75	8.00	9.58	13.00	13.00	10.58	10.50				
24	7165	THMAYNI	IMEN			0.00	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00		0.00			0.00			0.00		0.00	0.00	0.00	0.00				
25	3237	Tlili	Arij	9.00	13.50	12.00	12.00	12.00	5.50	1.75	3.00	9.00	10.00	8.50	9.00	10.00	9.50	9.67	9.27	11.50	8.00	9.17	8.00	8.50	8.33	12.00	12.00	9.83	10.00				
26	6404	ZARROUK	AMENI	9.00	17.50	14.67	15.50	15.50	5.25	4.25	4.58	11.58	8.00	5.00	6.00	9.00	10.50	10.00	7.60	9.75	6.00	7.25	9.00	9.75	9.50	15.00	15.00	10.58	13.00				

N°	C.I.N	NOM	PRENOM	P5				P6			Moyenne Semestrielle	
				Informatique		TP Informatique		Moyenne P5	Anglais			Moyenne P6
				EXM	Moy	T.P	Moy	MOY	D.S	EXM		MOY
				Coef. = 2 CAI353 C+2*EXM/3		Coef. = 2 CAI354 T.P		4 CAI35	Coef. = 2 CAI363 (CC+2*EXM)/3			2 CAI36
1	4940	ALLOUGUI	HANA	8.50	8.33	12.00	12.00	10.17	12.50	17.00	15.50	8.83
2	8909	AMIRI	BARAA	Disp	13.00	Disp	15.00	12.07	Disp	Disp	13.58	10.30
3	0246	Andolsi	Syrine	7.50	10.00	12.50	12.50	11.25	14.50	12.00	12.83	10.08
4	5041	ANDOLSSI	FATMA	8.00	7.00	12.50	12.50	9.75	15.50	14.00	14.50	9.30
5	8686	BEN AMEUR	RIHEM	9.00	9.83	13.50	13.50	11.67	12.00	11.00	11.33	12.28
6	7698	BORNI	CHIRINE	8.00	8.33	17.00	17.00	12.67	12.00	11.00	11.33	10.82
7	7088	BOUALI	SOUAD	9.00	10.00	18.00	18.00	14.00	15.00	12.00	13.00	11.93
8	2549	BOUCHRIKA	KHALED		0.00		0.00	0.00			0.00	0.00
9	4001	DEBBABI	OUMAYMA	8.00	8.83	14.00	14.00	11.42	16.00	14.00	14.67	10.92
10	4290	DHAOUADI	MOUHANNED	13.00	13.00	15.00	15.00	14.00	16.50	16.50	16.50	13.20
11	4026	DHENE	YASMINE	10.00	9.00	14.00	14.00	11.50	12.00	11.50	11.67	11.65
12	3624	GHARBI	EYA		0.00		0.00	0.00			0.00	0.00
13	9740	GHARSELAOUI	MARYEM	5.00	6.00	14.00	14.00	10.00	12.50	15.00	14.17	10.65
14	4044	Hammi	Aya	5.00	5.00	12.50	12.50	8.75	13.50	14.00	13.83	10.98
15	9467	Hamza	Hadil	11.00	10.83	12.00	12.00	11.42	14.50	16.50	15.83	9.65
16	3544	HANCHI	IHEB	Disp	9.33	Disp	10.00	11.24	Disp	Disp	10.17	2.84
17	0221	Jendoubi	Cherifa	8.00	7.33	12.50	12.50	9.92	16.00	15.00	15.33	10.20
18	4030	KHARBECHÉ	MOLKA	14.00	12.17	13.50	13.50	12.84	13.00	11.00	11.67	11.56
19	3288	KHEMIRI	SOUHA	5.00	7.17	12.50	12.50	9.84	16.00	16.00	16.00	10.95
20	5293	KHEZAMI	EYA	11.50	12.17	12.00	12.00	12.09	15.50	13.00	13.83	11.87
21	4205	Khari	Aya	8.00	7.50	13.00	13.00	10.25	12.00	13.50	13.00	9.22
22	0200	MAATALLAH	IBTIHEL	Disp	14.17	Disp	12.50	7.62	Disp	Disp	15.09	9.30
23	6009	Saidane	Jihane	9.00	9.50	14.00	14.00	11.75	13.00	12.00	12.33	11.24
24	7165	THMAYNI	IMEN		0.00		0.00	0.00			0.00	0.00
25	3237	Tlili	Arij	5.00	6.67	13.50	13.50	10.09	15.50	15.50	15.50	10.03
26	6404	ZARROUK	AMENI	10.00	11.00	13.50	13.50	12.25	15.00	16.00	15.67	10.93

N°	C.I.N	NOM	PRENOM	P5							P6							Moyenne Annue	Résultat			
				Statistique	Informatique			TP	Informatique	Moyenne P5	Economie	Techniques			d'expression française	Anglais	Moyenne P6					
					Moy	D.S	EXM					Moy	T.P	Moy						MOY	D.S	EXM
					Coef. = 2			Coef. = 2		7	Coef. = 1			Coef. = 1			Coef. = 2			4	51	
					CAI353			CAI354		CAI35	CAI361			CAI362			CAI363			CAI36		
					(CC+2*EXM)/3			T.P			(CC+2*EXM)/3			(CC+2*EXM)/3			(CC+2*EXM)/3					
1	4940	ALLOUGUI	HANA	19.17	8.00	8.50	8.33	12.00	12.00	14.02	10.00	9.50	9.67	8.50	11.00	10.17	12.50	17.00	15.50	12.71	9.84	R
2	8909	AMIRI	BARAA	9.50	Disp	Disp	13.00	Disp	15.00	12.07	Disp	Disp	17.00	Disp	Disp	9.33	Disp	Disp	14.00	13.58	9.87	R
3	0246	Andolsi	Syrine	8.33	15.00	7.50	10.00	12.50	12.50	10.00	12.00	12.75	12.50	12.00	12.00	12.00	14.50	12.00	12.83	12.54	10.54	A
4	5041	ANDOLSSI	FATMA	11.67	5.00	8.00	7.00	12.50	12.50	10.57	10.00	12.25	11.50	13.50	12.00	12.50	15.50	14.00	14.50	13.25	10.32	A
5	8686	BEN AMEUR	RIHEM	17.50	11.50	9.00	9.83	13.50	13.50	14.17	19.00	13.50	15.33	9.00	9.00	9.00	12.00	11.00	11.33	11.75	13.89	A
6	7698	BORNI	CHIRINE	7.33	9.00	8.00	8.33	17.00	17.00	10.38	10.50	12.00	11.50	9.00	11.00	10.33	12.00	11.00	11.33	11.12	11.43	A
7	7088	BOUALI	SOUAD	12.83	12.00	9.00	10.00	18.00	18.00	13.50	8.75	9.25	9.08	9.00	9.00	9.00	15.00	12.00	13.00	11.02	12.34	A
8	2549	BOUCHRIKA	KHALED	0.00	0.00		0.00		0.00	0.00			0.00			0.00			0.00	0.00	0.00	R
9	4001	DEBBABI	OUMAYMA	5.83	10.50	8.00	8.83	14.00	14.00	9.02	12.75	15.50	14.58	10.00	10.00	10.00	16.00	14.00	14.67	13.48	11.70	A
10	4290	DHAOUADI	MOUHANNED	13.83	13.00	13.00	13.00	15.00	15.00	13.93	16.00	14.75	15.17	11.50	10.00	10.50	16.50	16.50	16.50	14.67	13.68	A
11	4026	DHENE	YASMINE	16.00	7.00	10.00	9.00	14.00	14.00	13.43	16.00	11.00	12.67	8.50	9.00	8.83	12.00	11.50	11.67	11.21	12.54	A
12	3624	GHARBI	EYA	0.00	0.00		0.00		0.00	0.00			0.00			0.00			0.00	0.00	0.00	R
13	9740	GHARSELAOUI	MARYEM	3.67	8.00	5.00	6.00	14.00	14.00	7.29	13.75	15.25	14.75	9.00	9.00	9.00	12.50	15.00	14.17	13.02	11.01	R
14	4044	Hammi	Aya	14.00	5.00	5.00	5.00	12.50	12.50	11.00	10.00	15.50	13.67	8.50	12.00	10.83	13.50	14.00	13.83	13.04	11.85	A
15	9467	Hamza	Hadil	16.33	10.50	11.00	10.83	12.00	12.00	13.52	11.50	11.50	11.50	10.50	13.00	12.17	14.50	16.50	15.83	13.83	10.88	R
16	3544	HANCHI	IHEB	13.33	Disp	Disp	9.33	Disp	10.00	11.24	Disp	Disp	17.33	Disp	Disp	6.67	Disp	Disp	8.33	10.17	4.35	R
17	0221	Jendoubi	Cherifa	13.00	6.00	8.00	7.33	12.50	12.50	11.24	12.50	12.00	12.17	10.50	10.00	10.17	16.00	15.00	15.33	13.25	10.99	A
18	4030	KHARBECHÉ	MOLKA	11.50	8.50	14.00	12.17	13.50	13.50	12.26	13.50	15.00	14.50	11.00	10.00	10.33	13.00	11.00	11.67	12.04	12.54	A
19	3288	KHEMIRI	SOUHA	16.17	11.50	5.00	7.17	12.50	12.50	12.55	13.25	14.50	14.08	9.00	12.00	11.00	16.00	16.00	16.00	14.27	12.82	A
20	5293	KHEZAMI	EYA	16.83	13.50	11.50	12.17	12.00	12.00	14.12	15.00	14.25	14.50	9.00	12.50	11.33	15.50	13.00	13.83	13.37	12.87	A
21	4205	Khari	Aya	13.00	6.50	8.00	7.50	13.00	13.00	11.43	16.25	9.50	11.75	8.50	8.50	8.50	12.00	13.50	13.00	11.56	10.90	A
22	0200	MAATALLAH	IBTIHEL	10.00	Disp	Disp	14.17	Disp	12.50	11.91	Disp	Disp	16.67	Disp	Disp	12.33	Disp	Disp	15.67	15.09	10.36	R
23	6009	Saidane	Jihane	17.33	10.50	9.00	9.50	14.00	14.00	14.14	12.50	15.25	14.33	8.50	9.00	8.83	13.00	12.00	12.33	11.96	12.19	A
24	7165	THMAYNI	IMEN	0.00	0.00		0.00		0.00	0.00			0.00			0.00			0.00	0.00	0.00	R
25	3237	Tlili	Arij	11.00	10.00	5.00	6.67	13.50	13.50	10.48	16.00	12.75	13.83	9.00	12.00	11.00	15.50	15.50	15.50	13.96	10.64	A
26	6404	ZARROUK	AMENI	12.83	13.00	10.00	11.00	13.50	13.50	12.50	14.75	14.50	14.58	10.00	11.00	10.67	15.00	16.00	15.67	14.15	11.65	A

N°	C.I.N	NOM	PRENOM	P1														P2											D.S			
				Energétique des Processus Physico-Chimiques			Thermodynamique des Solutions			Cinétique et Catalyse			TP Thermodynamique et Cinétique		Chimie organique			Moyenne P1	Tritrimétrie			Electrochimie Appliquée			Chimie des solutions			TP de Tritrimétrie & d'électrochimie		Moyenne P2	Analyse	
				C.C	EXM	Moy	C.C	EXM	Moy	C.C	EXM	Moy	T.P	Moy	C.C	EXM	Moy		MOY	C.C	EXM	Moy	C.C	EXM	Moy	CC	EXM	Moy				TP
				Coef. = 2			Coef. = 2			Coef. = 3			Coef. = 2		Coef. = 2			11	Coef. = 3			Coef. = 3			Coef. = 2			Coef. = 2		10		
CAI311			CAI312			CAI313			CAI314		CAI315			CAI31	CAI321			CAI322			CAI323			CAI324		CAI32						
(CC+2*EXM)/3			(CC+2*EXM)/3			(CC+2*EXM)/3			T.P		(CC+2*EXM)/3				(CC+2*EXM)/3			(CC+2*EXM)/3			(CC+2*EXM)/3			TP								
1	8924	DALLAGI	HAJER	Disp	Disp	11.67	Disp	Disp	12.33	Disp	Disp	6.00	Disp	15.00	2.75	3.50	3.25	9.32	5.50	6.00	5.83	8.50	6.50	7.17	10.50	12.00	11.50	10.00	10.00	8.20	Disp	
2	8679	HAMDI	YASMINE	Disp	Disp	11.33	2.00	7.00	5.33	Disp	Disp	10.50	Disp	14.50	4.25	3.75	3.92	9.24	6.50	5.50	5.83	8.50	6.00	6.83	8.50	11.00	10.17	10.00	10.00	7.83	Disp	
3	2782	KOUKI	HELA	9.00	10.00	9.67	2.00	9.00	6.67	10.50	13.00	12.17	Disp	14.50	6.75	3.50	4.58	9.76	4.00	5.25	4.83	6.50	6.50	6.50	12.00	9.00	10.00	Disp	11.00	7.60	Disp	
4	9749	MTIRI	ZEINEB	Disp	Disp	15.33	Disp	Disp	13.67	Disp	Disp	13.00	Disp	15.50	1.00	3.50	2.67	12.12	4.50	8.50	7.17	6.00	9.00	8.00	8.00	9.50	9.00	10.50	10.50	8.45	Disp	

		P3												P4															
		Fonctionnelle Organique			Analyse Qualitative Inorganique			Etat Solide et Métallurgie			TP Organique		TP Inorganique		Moyenne P3	Spectroscopie Absorption et Emission Atomique			Spectroscopie moléculaire			TP Spectroscopie absorption et Emission Atomique		TP Spectroscopie moléculaire		Moyenne P4	Calcul		
		EXM	Moy	D.S	EXM	Moy	D.S	EXM	Moy	T.P	Moy	T.P	Moy	MOY	D.S	EXM	Moy	D.S	EXM	Moy	T.P	Moy	T.P	Moy	MOY	D.S	EXM		
		Coef. = 2			Coef. = 2			Coef. = 2			Coef. = 2		Coef. = 2		10	Coef. = 2			Coef. = 3			Coef. = 2		Coef. = 2		9	Coef. = 3		
		CAI331			CAI332			CAI333			CAI334		CAI335		CAI33	CAI341			CAI342			CAI343		CAI344		CAI34	CAI351		
		C+2*EXM/3			(CC+2*EXM)/3			(CC+2*EXM)/3			T.P		T.P			(CC+2*EXM)/3			(CC+2*EXM)/3			T.P		T.P			(CC+2*EXM)		
1	8924	DALLAGI	HAJER	Disp	10.17	Disp	Disp	10.33	Disp	Disp	9.92	Disp	13.50	Disp	13.50	11.48	Disp	Disp	11.00	Disp	Disp	13.33	Disp	10.75	Disp	13.00	12.17	Disp	Disp
2	8679	HAMDI	YASMINE	Disp	10.67	10.25	3.50	5.75	7.00	5.25	5.33	Disp	11.50	Disp	10.50	8.75	Disp	Disp	11.42	9.00	7.50	8.00	Disp	12.50	Disp	16.00	11.54	Disp	Disp
3	2782	KOUKI	HELA	Disp	9.92	Disp	Disp	7.00	Disp	Disp	7.00	Disp	15.00	Disp	13.00	10.38	5.25	11.50	9.42	7.00	6.00	6.33	Disp	15.75	Disp	13.50	10.70	4.00	7.00
4	9749	MTIRI	ZEINEB	Disp	8.75	7.50	6.00	6.50	6.00	9.00	8.00	Disp	14.50	Disp	11.00	9.75	9.25	9.50	9.42	7.00	10.50	9.33	Disp	10.00	Disp	13.50	10.43	8.50	6.00

N°	C.I.N	NOM	PRENOM	P5							P6							Moyenne Annue	Résultat			
				Statistique			Informatique			Moyenne P5	Economie			Techniques d'expression française			Anglais			Moyenne P6		
				Moy	D.S	EXM	Moy	T.P	Moy		MOY	D.S	EXM	Moy	D.S	EXM	Moy				D.S	EXM
				Coef. = 2			Coef. = 2			7	Coef. = 1			Coef. = 1			Coef. = 2			4	51	
				CAI353			CAI354			CAI35	CAI361			CAI362			CAI363			CAI36		
				(CC+2*EXM)/3			T.P				(CC+2*EXM)/3			(CC+2*EXM)/3			(CC+2*EXM)/3					
1	8924	DALLAGI	HAJER	8.00	Disp	Disp	16.17	Disp	12.50	11.62	Disp	Disp	17.33	Disp	Disp	12.50	Disp	Disp	11.83	13.37	10.28	Cr Satisfait
2	8679	HAMDI	YASMINE	9.67	Disp	Disp	17.67	Disp	15.00	13.48	Disp	Disp	15.67	Disp	Disp	9.00	Disp	Disp	14.33	13.33	10.02	R
3	2782	KOUKI	HELA	6.00	Disp	Disp	17.67	Disp	15.00	11.91	Disp	Disp	15.67	4.50	10.00	8.17	Disp	Disp	14.17	13.05	10.00	R
4	9749	MTIRI	ZEINEB	6.83	Disp	Disp	11.67	Disp	19.00	11.69	Disp	Disp	17.33	8.00	8.00	8.00		10.00	6.67	9.67	10.19	Cr Satisfait