

Subject Incharge :______ Page No._

PARSHVANATH CHARITABLE TRUST'S

A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering
Data Science

Subject: DSGT Academic Year: 2022-2023 **Coset: - A subgroup H of G is said to be a mormal subgroup of G if for every a & G, aH = Ha. A subgroup of an Abelian group is normal. A subgroup of an Abelian group is normal. A subgroup of group Z6. Is H a normal subgroup of group Z6. Is H a normal subgroup of group Z6. The addition modulo 6 group, table of Z6 is.
A subgroup of an Abelian group is normal. A subgroup of an Abelian group is A subgroup of an Abelian group is A subgroup of group Z6. Is Ha normal Subgroup of group Z6. The addition modulo 6 group, table of Z6 is.
A subgroup of an Abelian group is normal. A subgroup of an Abelian group is A subgroup of an Abelian group is A subgroup of group Z6. Is Ha normal Subgroup of group Z6. The addition modulo 6 group, table of Z6 is.
normal. Subgroup of an Abelian group 15 Normal. Deft to set (aH) -> left to set (AH) -> right coset. (D) Let H = \$[0]_c, [3]_c? Find the left e right cosets in group Z6. Is H a normal subgroup of group Z6. The addition modulo 6 group, table of Z6 is.
D Let $H = \{[0]_6, [3]_6\}$. Find the left e right cosets in group Z_6 . Is H a normal subgroup of group Z_6 . The addition modulo f group, table of Z_6 is.
D Let $H = S[O]_C$, $[3]_C ?$. Find the left e right cosets in group Z_C . Is H a normal subgroup of group Z_C . The addition modulo G group, table of Z_C is.
1) Let $H = S[O]_{6}, [3]_{6}$? Find the left e right cosets in group Z_{6} . Is H a normal subgroup of group Z_{6} . The addition modulo 6 group, table of Z_{6} is.
Tight cosets in group Z6. Is Ha normal subgroup of group Z6. The addition modulo 6 group, table of Z6 is.
Subgroup of group 76. The addition modulo 6 group, table of 76 is.
=> The addition modulo 6 group, -table of 76 is.
table of 76 is
4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
= 1 2 1 5
+6 0 1 2 3 4 5
0012345
1 1 1 2 3 19 5 0
2 2 1 3 4 15 0 11
3 3 4 5 0 1 2
4 4 5 0 1 2 3
5 5 0 1 2 3 9
This is Abelian group since for all a, b & Z
This is Abelian group since for all a, b & C
6

Department of CSE-Data Science | APSIT



PARSHVANATH CHARITABLE TRUST'S

A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering Data Science

Semester:	Academic Year: 2022-2023			
Left coset of H with respect $AH = \{a + h \mid h \in H\}$ $OH = \{0+0, 0+3\} = 1$ $1H = \{1+0, 1+63\} = 2$ $2H = \{2+0, 2+3\} = 3$ $3H = \{3+0, 3+63\} = 4$ $4H = \{4+0, 4+3\} = 5$ $5H = \{5+60, 5+63\} = 4$	\$0,33 \$1,43 \$2,53 \$3,03 \$4,13			
	to a in the 3 20,37 21,48 21,53 24,13 25,23			
0H=H0 3H=H3	6 9 1			
1H=H1 4H=H4	5 5 6			
2H=H2 5H=H5				
: H is a normal subgroup	of 26.			

Page No.__

Subject Incharge :____



Subject Incharge :_

PARSHVANATH CHARITABLE TRUST'S

A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering Data Science

Semester :	II	-	Su	bject :	DSG	<u>T</u>		Acad	demic Year: 2022	2- 2023
EX. L	= 21	G =	Z8.	Det	erm'	ine	all	left	cosots	- Je
			ition			8 -	fabl	e 15		
_+8	0	1	2	3	4	5	6	7	LAYES !	N.
0	0	1	2	3	4	5	6	7		
	1	2	3	Ce	5	6	7	0		
2	2	3	4	5	6	7	0		A APRILATE	
3	3	4	5	6	7	0	4	2		
_ 4	4	5	. 6	7	0	1	2	3		ALLE BANK
_ 5	5	6	7	@	1	2	3	4		
6	6	7	0	1	2	3	4	5		
_ 7	7	0	1	2	3	4	5	6		
Left coset of H with respect to a is.										
-		200	* h	Phi	= H	4				
01	The second second		+8			-8 4	7 =	{ C	1,43	
11-	PARTY STATE OF THE PARTY STATE O	3 1	+8			to 4	7	2	1,53	
21		\$ 2	+ +8	6	THE RESIDENCE OF	t8 4	13 =	\$	2,63	
31	1 -	\$!	3 +8	0		ts 9		: \$	3,73	
4			1 +8	0	φ	ts 4	3:	= {	4,03	
5	2.11723	\$	5+8		5	+8 4	٩ :	= 1	25,13	I PI PI
1	11 =	\$	6 te	-		te 4	3	,	€ 6,24	
	1H =	5 -	7 +1			+8	43		\$ 7,30	2
		L				- (Xe)	17			

Page No.

Department of CSE-Data Science | APSIT