III Guanforfa ilai II	MIT WORLD PEACE UNIVERSITY PUNE TECHNOLOGY, RESEARCH SOCIAL INNOVATION A PARTHERSHIPS		ASSIGNMENT / TEST Page No.
		N L.I.O.	
	Priyal Agrawal. Roll'No-27		
	Batch - H2		·No-27
		Ech	-1032201406
	Aim: To write a program for lever detection and correction codes using Hamming code.		
	and correction	n cooler mor e	Exor detection
		Hami	ming code.
	Objectives:		
	1. To encode	and decode origina Parity bits	
	the help of f	racity bits.	a data bits with
	? To demonstr	ate the use of wear	control hit
			concret prolocal.
	Theory:		
	1. Types of ex	clots.	
	There are make	rly 3 types of error	·. :
(The state of the s	1000	
;	10/10011	→ 101101111	
4.	Datasent	Data Received	
	b) Multiple be	its extend	
	1011001	1 → 10100 IIII	
	Dotasent	Data Received.	
(c) Burst Execr	→	
		→ 11000111	
	Datasent	Data Received.	*
		Rada Recedora.	
থ	· Concept of Pa	wity bits.	
	1 parity bit i	s a check bit, who	1ah 21 - 11 1 1-
	block of dat	ta for veror detec	cic 1s added 10
	U recen	you were delle	tion furfosis.
-			Illitabases

mitwpu.edu.

mitwpu.edu.in

	Queto A		
	Protocol and Sliding ARQ & Sliding Window ARQ		
	Window Protocol. ARO => Automatic Refect		
	Request.		
2.	Explain in brief, the & types of error control mechanism.		
Any	There are & following mechanisms:		
	(1) Stop & Wait ARO -) It is also known as alternating		
	bit protocal. In this meshaving		
	bit protocal. In this mechanism, receiver simply		
	20 receives 10 receive olato has make		
	In this, the sender sends data packet or information		
	Ack brow the secretion of the secretion of the		
	ACK from the receiver. If the ACK does not arrive		
	from the receiver within a given time period,		
	ALCON ALCONO K CONTINUE TO ALCONO		
	and wait has the		
	The people receiver. The process will continue until		
	the sender has no more data frames to send.		
	(2) Sliding Window ARO -> This mechanism is generally		
	used for continuous transmission error control.		
	It is further categorised into 2 categories:		
<u>a)</u>	Go-Back NARO - It is a type of ARO protocol		
1	in which transmission process continues to send		
	total number of beamy dictored by windows sine		
	total number of frames dictored by window size even without receiving an ACR from the receiver.		
	Thurse Miding winders black heat and		
	Ituses sliding window flow proto col.		

It no error occurs, then operation is identical to sliding window.

b) Selective Repeat ARO -> It is a type of ARO protocol in which only suspected damage at lost data frames are retransmitted. This technique is similar to Go-Back n ARO through, much more ebbicient than Go-Back. NARO technique due to reason that it reduces number of retransmission. In this, the sender only resends those frames for which no acknowledgement CNAK) is received. But this technique is less frequently used because it increases complexity on senders and receiver's and & each frame must be acknowledged individually.