KERALA PUBLIC SCHOOLS



HOME ASSIGNMENT (1st to 4th July 2020)

CLASS	SUBJECT	TOPIC /	MODULE / ASSIGNMENT	REFERENCE I INKS
VII	COMPUTER	CHAPTER Ch – 2 : Number System- An Introduction	Q1. Fill in the blanks: i. of a number system is the total number of digits available in the number system. ii. The base of Binary number system is iii. The base of number system is 16. iv. Digits from 0-9 are used in number system. v. Digits from 0-7 are used in number system. Q1. ANSWER number system. ii. Base ii. 2. iii. hexadecimal. iv. decimalnumber v. octal	LINKS
			 Q2. State True or False: i. The decimal number 2 is represented in binary as 10. ii. The octal number system consist of digits 1-7. iii. The hexadecimal number system consists of numbers from 0-9, letters A-F iv. Number system conversion is required to communicate for different levels of computer system. v.Binary number with four digits has a maximum value of 15. Q2. State True or False: i. True ii. False iii. True iv. True v. True 	

Q3. Answer the following questions: 1. What is Number System? 2. What are the different types of Number System? Explain briefly. Q3. Answer the following questions: 1. Number System is a set of values used to represent different quantities. 2. Ans. There are four types of Number System – a) Decimal Number System- consists of digits from 0-9 and base is 10. b) Binary Number System- consists of digits from 0-7 and base is 2. c) Octal Number System- consists of digits from 0-7 and base is 8. d) Hexadecimal Number System- consists of digits from 0-9, A-F where A=10, B=11, C=12, D=13, E=14, F=15 and base is 16. Q4. Convert the following numbers from Binary to Decimal.	
i. $(1101)_2 = (13)_{10}$ ii. $(11010)_2 = (26)_{10}$	
Solve the Q 5. d. Q4. ANSWER $i.(1101)_2=(13)_{10}$	
$1101 = 1x2^{3} + 1x2^{2} + 0x2^{1} + 1x2^{0}$ = 8 + 4 + 0 + 1 = 13 ii.(11010)_{2} = (26)_{10}	
$11010 = 1x2^{4} + 1x2^{3} + 0x2^{2} + 1x2^{1} + 0x2^{0}$ = 16 + 8 + 0 + 2 + 0 = 26	
Solve the Q 5. d.	



