<u>Grade 10 Number System MCQ Paper</u>								
1.	 Which of the following octal numbers 1) 117₈ 2) 1017₈ 	pers is equivalen	t to decimal 79? 3) 711 ₈ 4) 7110 ₈		(2015)			
2.	Which of the following formats are1) Binary2) Decimal	cimal	(2015)					
3.	Which of the following decimal numbers is equivalent to binary number 110111_2 ?1) 553) 1102) 634) 118				(2015)			
4.	 Which of the following represents the ascending order of the four numbers 10001111₂, 170₈, 46687₁₀ 170₈, 10001111₂, 2F₁₆, 46687₁₀ 10001111₂, 46687₁₀, 170₈, 2F₁₆ 2F₁₆, 170₈, 10001111₂, 46687₁₀ 46687₁₀, 10001111₂, 170₈, 2F₁₆ 							
5.	Which of the file/files given in Table 1 could be stored in a USB storage device having a to of 4GB so that a least amount of unused space is left on the device? Table 1							
	File 1	name	Size					
	A	doc	300 MB					
	B	jpg	740 MB					
	C.	mp4	3GB					
	 A.doc and B.jpg only B.jpg and C.mp4 only 		3) C.mp4 (4) All of the	only 1em				
6.	Which of the following is approximation 1 : $1 \times 10^{6} \text{ MB}$ 2) $1 \times 10^{6} \text{ GB}$	3)? KB oytes	(2016)					
7.	In the ASCII code, Character 'Q' i word 'PUT' in binary form? 1) 1010000 ₂ 1010101 ₂ 101010 2) 1010001 ₂ 1010101 ₂ 101010 3) 1010000 ₂ 1010011 ₂ 1010111 4) 1010101 ₂ 1010100 ₂ 1010011	s represented as 002 002 2 2	1010001_2 . What is th	e option that repre	esents the (2016)			
8.	 Consider the following four numbers presented in different number systems. (2016) 11110011₂, F3₁₆, 363₈, 243₁₀ Which of the following statements is true regarding the above four numbers? F3₁₆ is larger than other three numbers. 363₈ is smaller than other three numbers. Four numbers are equal to each other. Four numbers are not equal to each other. 							
9.	What is the decimal equivalent to 41) 482) 52	octal 64?	 62 68 		(2016)			
10.	Which of the following decimal numbers is equivalent to the binary number 01011 ₂ ? (2017)							

- 1) 11 2) 35 3) 154) 10

11.	11. Which of the following octal numbers is equivalent to the binary number 111110110010_2 ? (2017)								
	1) 7552_8	3)	25578						
	2) 2667_8	4)	76628						
12.	The hexadecimal equivalent of 11101011000111010_2 is:			(2017)					
	1) $DD63A_{16}$	3)	1D33A ₁₆						
	2) $1D63A_{16}$	4)	$1D631_{16}$						
13.	Consider the following statements.			(2017)					
	A - $2B_{16}$ is equivalent to 53_8								
	B - 43_{10} is equivalent to 101011_2								
	$C = 101011_2$ is equivalent to 53_8 Which of the above statements are true?								
	1) A and B only	3)	B and C only						
	2) A and C only	4)	All A, B and C						
14	In which form is data and instructions stored in a compute	r?		(2018)					
17.	1) binary	3)	hexadecimal	(2010)					
	2) decimal	4)	octal						
15	Which of the following is the octal equivalent of decimal	156		(2018)					
15.	1) 121 ₈	3)	574 ₈	(2010)					
	2) 2348	4)	7708						
16	Which of the following is the binary equivalent of hexade	cimal	$2B_{16}?$	(2018)					
10.	1) 00101011_2	3)	100101002	(2010)					
	2) 01001001 ₂	4)	101100112						
17.	Which of the following lists 100110012 1138, 16010 and 1	A16 i1	n the ascending order?	(2018)					
	1) 10011001 ₂ , 113 ₈ , 160 ₁₀ , 1A ₁₆		0	()					
	2) 160_{10} , $1A_{16}$, 10011001_2 , 113_8								
	3) 160 ₁₀ , 1A ₁₆ , 113 ₈ , 10011001 ₂								
	4) $1A_{16}$, 113_8 , 10011001_2 , 160_{10}								
18	In which of the following number systems, is the number	' 800	'a valid number?	(2018)					
10.	1) decimal only	000		(2010)					
	2) decimal and hexadecimal only								
	3) decimal and octal only								
	4) octal only								
19	Which of the following statements are true?			(2019)					
171	A - Binary form is used to store data and instruction	ons ir	n computers.	(_01))					
	B - 945 is a valid number both in the octal and her	xadec	imal number systems.						
	$C - 412_8$ is equivalent to 100001010 ₂ .								
	1) A only	3)	A and C only						
	2) B only	4)	all A, B and C						
20.	Which of the following shows the given storage component	nts in	descending order of acce	ess speed?					
	1) cache memory, main memory, register, hard disk			(2019)					
	3) register, cache memory main memory hard disk								
	4) register, main memory, hard disk, cache memory								
21	If character 'E' is represented in the ASCII table as 69.0	what	is the binary representati	ion of character					
<i>4</i> 1.	'G' in the ASCII table?	•• mai	is the officiry representation	(2019)					
	1) 1000110	3)	1001000	· · · /					
	2) 1000111	4)	1001001						

- 22. Which of the following represents the units of measurements of data in computer systems in the ascending order of their size? (2020)
 - 1) Bit, Byte, Kilobyte, Terabyte
 - 2) Byte, Bit, Kilobyte, Terabyte
 - 3) Megabyte, Kilobyte, Bit, Byte
 - 4) Terabyte, Gigabyte, Megabyte, Kilobyte
- 23. Which of the following shows the storage devices of a desktop computer in descending order of storage capacity? (2020)
 - 1) Register, Cache memory, Hard disk
 - 2) Hard disk, RAM, Register
 - 3) RAM, Register, Cache memory
 - 4) RAM, Cache memory, Hard disk
- 24. Which of the following represents the given four numbers in ascending order? (2020)

- 1) 64_{16} , 226_8 , 200_{10} , 101011_2
- 2) 101011_2 , 64_{16} , 226_8 , 200_{10}

3) $101011_2, 64_{16}, 200_{10}, 226_8$ 4) $200_{10}, 226_8, 101011_2, 64_{16}$

 $200_{10}, 220_8, 101011_2, 0$