0478 and 0984(9-1) COMPUTER SCIENCE TOPIC MARK SCHEMES SET-2 SMART EXAM RESOURCES

Unit 1.1 Number Systems

MARKS SCHEME

Unit 1.1 Number Systems

ANSWER 1 (a)

One mark per each correct binary value. One mark per each correct hex value.				
Hexadecimal	8-bit binary			
31	00110001			
7B	01111011			
C8	11001000			
	Hexadecimal 31 7B			

ANSWER 1 (b)

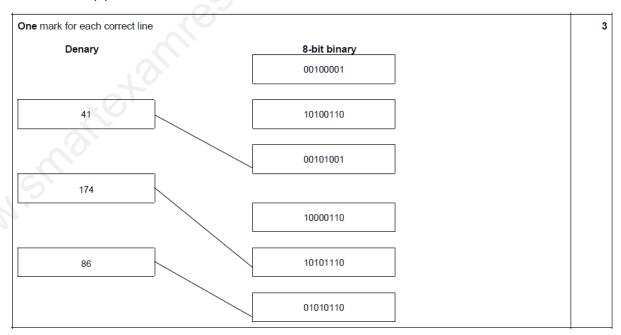
Any two from:	
 Easier/quicker to read/write/understand 	
Easier/quicker to identify errors/debug	
- Takes up less screen/display space	
Less chance of making an error	

ANSWER 1 (c)

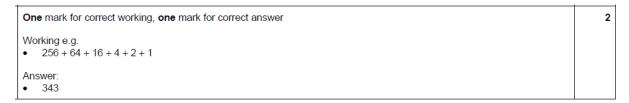
Any three from:	3
- MAC address	
- URL	
Assembly language	
 Error codes // error messages 	
- IP addresses	
Locations in memory	
Memory dumps	

Unit 1.1 Number Systems

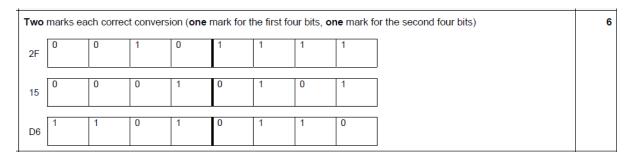
ANSWER 2 (a)



ANSWER 2 (b)



ANSWER 3 (a)



ANSWER 3(b)

Any two from:

IP address

Error messages/codes

Assembly language // low-level language

URL // web address

Memory dumps

Locations in memory

Unit 1.1 Number Systems

ANSWER 4

Per each binary conversion, one mark for 2 correct character conversions, two marks for three correct character conversions

• 0000 0101 1010

• 0001 1000 1100

• 0010 1001 1111

ANSWER 5

Per each hex conversion, **one** mark for 2 correct character conversions, **two** marks for three correct character conversions

• 40D

• 07E

ANSWER 6

One mark per each correct binary value.	
- 00010100 - 10100000 - 11001001	