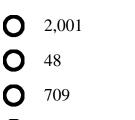
1. Write the numeral in the following problem as a decimal numeral. By decimal numeral, we mean the system we use in everyday arithmetic.

Select the correct answer.

TTTTDJT

- **O** 100,010
- **O** 1,256
- **O** 261
- **O** 28
- 2. Write the numeral in the following problem as a decimal numeral. By decimal numeral, we mean the system we use in everyday arithmetic.

Select the correct answer.



O 1,997

MMI

3. Write the numeral in the problem in the Roman system.

Select the correct answer.

521

- O XLVII
- O LXXV
- O CCLVIII
- **O** DXXI
- Perform the indicated operations in the following problem.
 Select the correct answer.

- o ⁹⁸⁸⁸⁸
- ο αποιμιμ
- o & 99901

5. Give the meaning of the numeral 5 in 58,000,000.

Select the correct answer:

- **O** 5 thousandth
- **O** 5 hundreds
- **O** 5 ten-millions
- **O** 5 units
- 6. Write 5 \times 10⁻⁴ in decimal notation.

Select the correct answer.

- 0.00005
- **O** -50000
- **O** -5000
- 0.0005
- 7. Write the number in decimal notation.

Select the correct answer.

$$4 \times 10^{1} + 9 \times 10^{0} + 8 \times 10^{-1} + 7 \times 10^{-2} + 8 \times 10^{-3}$$

O 49.878

- **O** 4.9878
- **O** 498.78
- **O** 87.894

8. Write 16.432 in expanded notation.

Select the correct answer.

$$O = 1 \times 10^{2} + 6 \times 10^{1} + 4 \times 10^{0} + 3 \times 10^{-1} + 2 \times 10^{-2}$$
$$O = 1 \times 10^{1} + 6 \times 10^{0} + 4 \times 10^{-1} + 3 \times 10^{-2} + 2 \times 10^{-3}$$
$$O = 2 \times 10^{1} + 3 \times 10^{0} + 4 \times 10^{-1} + 6 \times 10^{-2} + 1 \times 10^{-3}$$
$$O = 1 \times 10^{0} + 6 \times 10^{-1} + 4 \times 10^{-2} + 3 \times 10^{-3} + 2 \times 10^{-4}$$

9. Change the numbers to base ten.

Select the correct answer.

973 twelve

O 1,383

O 1,152

O 1,371

O 1,191

10. Change the number to base ten.

Select the correct answer.

1110.11 _{two}

O 15.86

Ο

Ο

14.75

13.52

O 17.47

11. Change 2,337 to base seven.

Select the correct answer.

- **O** 6106 seven
- **O** 6550 _{seven}
- **O** 6546 *seven*
- **O** 6646 *seven*
- **12.** Change 726 to base twelve.

Select the correct answer.

- **O** 506 *twelve*
- **O** 556 *twelve*
- **O** 500 *twelve*
- **O** 510 *twelve*
- **13.** Change 121 days to weeks and days.

Select the correct answer.

- **O** 19 weeks, 1 days
- **O** 16 weeks, 3 days
- **O** 17 weeks, 3 days
- **O** 17 weeks, 2 days

MASC 1024 Test 2, Practice Test

14. Write the number as a decimal numeral.

Select the correct answer.

1111 _{two}

0	26		
0	18		
0	15		
0	13		

15. Write the number as a binary numeral.

11

Select the correct answer.

O 1011 two
 O 1010 two
 O 1111 two

O 1001 _{two}

16. Perform the indicated operation .

Select the correct answer.

 $1011_{two} \\ +1100_{two}$

 $\begin{array}{c|c} & 1011_{two} \\ 0 & 10110_{two} \\ 0 & 10111_{two} \\ 0 & 11010_{two} \end{array}$

17. Perform the indicated operation .

Select the correct answer.

$$10111_{two}$$

- 1011_{two}

- **O** 1001_{two}
- **O** 1100_{two}
- **O** 1010_{two}
- **O** 110_{two}
- **18.** Convert the number to the binary system.

347 _{eight}

Select the correct answer.

- $\begin{array}{c|c} \mathbf{O} & 011 & 100 & 111 \\ \mathbf{O} & 011 & 101 & 111 \\ \mathbf{O} & 011 & 101 & 111 \\ \mathbf{O} & 111 & 111 & 000 \\ \mathbf{O} & 100 & 100 & 111 \\ \mathbf{W} & \mathbf{O} \end{array}$
- **19.** Convert the number to the octal system.

110 _{two}

Select the correct answer.

 $\begin{array}{c} 0 & 10_{eight} \\ 0 & 6_{eight} \\ 0 & 8_{eight} \end{array}$

O 5_{eight}

MASC 1024 Test 2, Practice Test

20. Convert the number to the octal system.

11 101 111 _{two}

Select the correct answer.

- **O** 350 _{eight}
- **O** 357 *eight*
- **O** 557 _{eight}
- **O** 347 *eight*

ANSWER KEY

MASC 1024 Test 2, Practice Test

1. 261 2. 2,001 3. DXXI 4. **5.** 5 ten-millions **6.** 0.0005 **7.** 49.878 **8.** $1 \times 10^{1} + 6 \times 10^{0} + 4 \times 10^{-1} + 3 \times 10^{-2} + 2 \times 10^{-3}$ 9. 1,383 **10.** 14.75 **11.** 6546 seven **12.** 506 *twelve* **13.** 17 weeks, 2 days **14.** 15 **15.** 1011 two **16.** 10111_{two} **17.** 1100_{*two*} **18.** 011 100 111_{*two*} **19.** 6_{eight} **20.** 357_{eight}