

MASC 1024 Test 2, Practice Test

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.



- 100,010
- 1,256
- 261
- 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.

MMI

- 2,001
- 48
- 709
- 1,997

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

Select the correct answer.

521

- XLVII
- LXXV
- CCLVIII
- DXXI

4. Perform the indicated operations in the following problem.

Select the correct answer.

$$\begin{array}{r} 9900 \\ - 9000 \\ \hline \end{array}$$

- 9000
- 900
- 90
- 9900

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

Select the correct answer:

- 5 thousandth
- 5 hundreds
- 5 ten-millions
- 5 units

6. Write 5×10^{-4} in decimal notation.

Select the correct answer.

- 0.00005
- 50000
- 5000
- 0.0005

7. Write the number in decimal notation.

Select the correct answer.

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

- 49.878
- 4.9878
- 498.78
- 87.894

8. Write 16.432 in expanded notation.

Select the correct answer.

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

9. Change the numbers to base ten.

Select the correct answer.

973_{twelve}

- 1,383
- 1,152
- 1,371
- 1,191

10. Change the number to base ten.

Select the correct answer.

1110.11_{two}

- 14.75
- 13.52
- 15.86
- 17.47

11. Change 2,337 to base seven.

Select the correct answer.

- 6106 *seven*
- 6550 *seven*
- 6546 *seven*
- 6646 *seven*

12. Change 726 to base twelve.

Select the correct answer.

- 506 *twelve*
- 556 *twelve*
- 500 *twelve*
- 510 *twelve*

13. Change 121 days to weeks and days.

Select the correct answer.

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

14. Write the number as a decimal numeral.

Select the correct answer.

$$1111_{two}$$

- 26
- 18
- 15
- 13

15. Write the number as a binary numeral.

$$11$$

Select the correct answer.

- 1011_{two}
- 1010_{two}
- 1111_{two}
- 1001_{two}

16. Perform the indicated operation .

Select the correct answer.

$$\begin{array}{r} 1011_{two} \\ +1100_{two} \\ \hline \end{array}$$

- 1011_{two}
- 10110_{two}
- 10111_{two}
- 11010_{two}

17. Perform the indicated operation .

Select the correct answer.

$$\begin{array}{r} 10111_{two} \\ - 1011_{two} \\ \hline \end{array}$$

- 1001_{two}
- 1100_{two}
- 1010_{two}
- 110_{two}

18. Convert the number to the binary system.

$$347_{eight}$$

Select the correct answer.

- $011\ 100\ 111_{two}$
- $011\ 101\ 111_{two}$
- $111\ 111\ 000_{two}$
- $100\ 100\ 111_{two}$

19. Convert the number to the octal system.

$$110_{two}$$

Select the correct answer.

- 10_{eight}
- 6_{eight}
- 8_{eight}
- 5_{eight}

20. Convert the number to the octal system.


11 101 111 _{two}

Select the correct answer.

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

ANSWER KEY

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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*