



Dashboard > Courses > School Of Engineering & Applied Sciences > B.Tech. > B.Tech. Cohort 2020-2024 > Semester-II Cohort 2020-24 > ECSE209L (Group - I & Group - II) > General > DMS Quiz - 2

**Started on** Saturday, 3 July 2021, 6:02 PM

**State** Finished

**Completed on** Saturday, 3 July 2021, 6:27 PM

**Time taken** 24 mins 59 secs

### Question 1

Complete

Marked out of

1.00

The multiplicative inverse of 5 in  $Z_{11}$  is -----

**Note: enter the direct value if it is a numeric value like 2. If there is no solution possible then only type none in small case**

Answer: 9

### Question 2

Complete

Marked out of

1.00

Determine whether  $3|7$  ?

Select one:

☐ True

☒ False

### Question 3

Complete

Marked out of

1.00

Write the coefficient of  $x^{10}y^{17}$  in the expansion of  $(x+y)^{25}$ .

**Note: Enter only the numeric value like 2**

Answer: 0

**Question 4**

Complete

Marked out of

1.00

The multiplicative inverse of 12 in  $Z_{26}$  is -----

**Note: enter the direct value if it is a numeric value like 2. If there is no solution possible then only type none in small case.**

Answer:

**Question 5**

Complete

Marked out of

1.00

$2^{2004} \bmod 17$  is -----

**Note: Enter only the numeric value like 2**

Answer:

**Question 6**

Complete

Marked out of

1.00

How many committees of five people can be chosen from 12 men and 20 women if atleast three women must be on each committee?

**Note: Enter only the numeric value like 3**

Answer:

**Question 7**

Complete

Marked out of

2.00

$(1,723,345 * 2,124,954) \bmod 16$  is-----

Note: Enter only the numeric value like 2

here \* represents multiplication

Answer:

**Question 8**

Complete

Marked out of

2.00

$(1,723,345 - 2,124,954) \bmod 16$  is-----

**Note: Enter only the numeric value like 2**

Answer: **Question 9**

Complete

Marked out of

2.00

Determine the solution of the following congruence:

$$3x \equiv 1 \pmod{6}$$

**Note: enter the direct value of x if it is a numeric value like 2. If there is no solution possible then only type no in small case.**

Answer: **Question 10**

Complete

Marked out of

1.00

If  $a|b$  and  $b|(-c)$ , then  $a|c$ . (Here all the variables represent integers)

Select one:

- ☒ True
- ☐ False

**Question 11**

Complete

Marked out of

1.00

$2^{601} \bmod 17$  is-----

**Note: Enter only the numeric value like 2**

Answer:

**Question 12**

Complete

Marked out of

1.00

A man, woman, boy, girl, dog, and cat are walking down a long and winding road one after the other. In how many ways can this happen if the dog comes first?

**Note: Enter only the numeric value like 3**

Answer: