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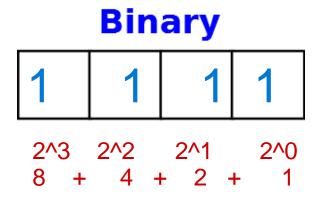


### Number System Problem – 1

#### Instructions:

- 1. Do not discuss with any one while solving the problems
- 2. Do not use internet while solving the problems
- 3. Do not use books while solving the problems
- 4. Do not try to copy from others
- 5. Do the problems in an easy way.





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### <u>Digital Electronics Problem – 2</u>

#### Instructions:

- 1. Do not discuss with any one while solving the problems
- 2. Do not use internet while solving the problems
- 3. Do not use books while solving the problems
- 4. Do not try to copy from others
- 5. Do the problems in an easy way.

Decimal 13

Binary

1 1 0 1

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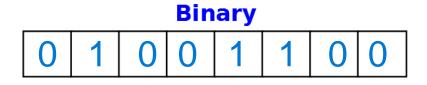


### <u>Digital Electronics Problem – 3</u>

#### Instructions:

- 1. Do not discuss with any one while solving the problems
- 2. Do not use internet while solving the problems
- 3. Do not use books while solving the problems
- 4. Do not try to copy from others
- 5. Do the problems in an easy way.





★ keep MSB bit(b7) as 0.

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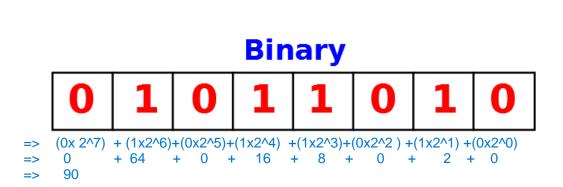
### <u>Digital Electronics Problem – 4</u>

#### Instructions:

1. Do not discuss with any one while solving the problems

**Decimal** 

- 2. Do not use internet while solving the problems
- 3. Do not use books while solving the problems
- 4. Do not try to copy from others
- 5. Do the problems in an easy way.



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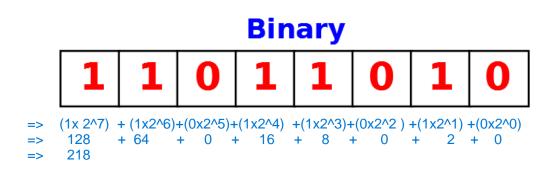


### <u>Digital Electronics Problem – 5</u>

#### Instructions:

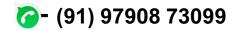
- 1. Do not discuss with any one while solving the problems
- 2. Do not use internet while solving the problems
- 3. Do not use books while solving the problems
- 4. Do not try to copy from others
- 5. Do the problems in an easy way.

## **Decimal** 218





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### <u>Digital Electronics Problem – 6</u>

#### Instructions:

- 1. Do not discuss with any one while solving the problems
- 2. Do not use internet while solving the problems
- 3. Do not use books while solving the problems
- 4. Do not try to copy from others
- 5. Do the problems in an easy way.

**Decimal** 

**156** 

**Binary** 

1	0	0	1	1	1	0	0
---	---	---	---	---	---	---	---

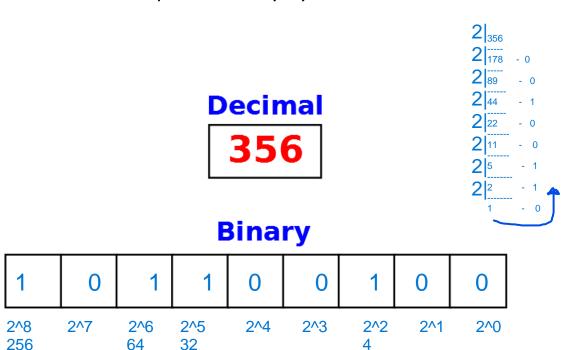
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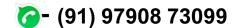
### <u>Digital Electronics Problem – 7</u>

#### Instructions:

- 1. Do not discuss with any one while solving the problems
- 2. Do not use internet while solving the problems
- 3. Do not use books while solving the problems
- 4. Do not try to copy from others
- 5. Do the problems in an easy way.



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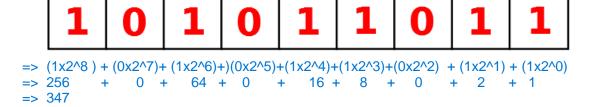
### <u>Digital Electronics Problem – 8</u>

#### Instructions:

- 1. Do not discuss with any one while solving the problems
- 2. Do not use internet while solving the problems
- 3. Do not use books while solving the problems
- 4. Do not try to copy from others
- 5. Do the problems in an easy way.

# **Decimal**

### **Binary**



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### <u>Digital Electronics Problem – 9</u>

#### Instructions:

- 1. Do not discuss with any one while solving the problems
- 2. Do not use internet while solving the problems
- 3. Do not use books while solving the problems
- 4. Do not try to copy from others
- 5. Do the problems in an easy way.

# Decimal 793

### **Binary**

1	1	0	0	0	1	~	0	0	1			
2   793   2   396   -1   2   198   -0   2   99   -0   2   49   -1   2   2   2   2   2   2   2   2   2												
2   198 - 0 2   99 - 0												
2 49 - 1 2 24 - 1												
				2  <u>1</u>	12 - 0							
				2	3 - 0 1 - 1							

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### <u>Digital Electronics Problem – 10</u>

#### Instructions:

- 1. Do not discuss with any one while solving the problems
- 2. Do not use internet while solving the problems
- 3. Do not use books while solving the problems
- 4. Do not try to copy from others
- 5. Do the problems in an easy way.

## **Decimal** 694



 $=>(1x2^9)+(0x2^8)+(1x2^7)+(0x2^6)+(1x2^5)+(1x2^4)+(0x2^3)+(1x2^2)+(1x2^1)+(1x2^0)$ =>512 + 0 + 128 + 0 + 32 + 16 + 0 + 4 + 2 + 1 =>695