

## Mid-Term Solution

**Q 1 -)**

**Sol - a)** Rotate left converts decimal to binary.

So, 10 = 1010

Now shifts bits by given integer 3 towards left and add 0 as remaining bit then, it will look like

1010000

1010000 = 80

**Output: 80**

**b) Output: True**

Both are pointing to the same address and == operator is used to compare two things are equal. Hence, equal and returns true.

**c) y+(y=17)**

10+(17) // y is updated to 17

10+17

27

**Output: 27**

**d)** Because, Integer(25) being considered as method so, the error will occur.

**e)** short(9042024) = -1944, overflow.

**Q2 - )**

**Sol - a)** This type of error is caused when the Class is not declared or does not exist still used.

**b)** This error occurs when string parantheses are open

Example: String s = "sggs;

**c)** This error occurs when String characters are tried to accessed like array

Example: String s = "sggs";

char Character = s[0];

**Q3 - )**

**Sol - )** void main() {

    System.out.println("Hello World");

}

--release 21 --enable-preview Sample.java

--enable-preview Sample

Hello World

**Q4 - )**

**Sol - a)** Output

Error: recursive constructor invocation

Infinite loop is running.

**b)** Examination: Mid

Strings are immutable in java so string exam will not be modified.

**c)** Stackoverflow error.

**d)** Static Block 1: EXAM

Static Block 2: EXAM

Static Block 1: MIDTERM

Static Block 2: MIDTERM

Welcome To Mid Term Examination

Init Block: EXAM

EXAM Constructor

Init Block: EXAM

EXAM Constructor

Init Block: MIDTERM

MIDTERM Constructor

MidTerm

**Q5 - )**

**Sol -)** 3 objects will be created

str1 is created

str2 is also created

str5 new keyword is used so object is created

No object will be created for str3 and str4, they are the copy of str 1 and str2, that's why both are neglected.