Q 1

a)

Rotate left first converts decimal to binary

10=1010

Now shifts bits by given integer 3 towards left and add 0 as remaining bit

Sow now it will look like

1010000

1010000=80

Output=80

b)

true

== operator acts as comparing operator

Therefore it returns true

c)

y+(y=17)

10+(17)

10+17

27

d)

Error:

| cannot find symbol

This error is caused because system is taking Integer(25) as method so it is giving error

e)

Q2

a)

This type of error is caused when the Class is not declared or does not not exit sill used

public class Pratik

{

public static void main(String[] args)

{

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

}

}

If this program is run by Sample class name this error will happen

b)

This error will happen if string parantheses are open

public class Pratik

{

public static void main(String[] args)

{

String s= “sggs;

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

}

}

c)

This error is occurred when String characters are tried to accessed like array

public class midterm {

public static void main(String[] args) {

String pratik = "Hello, World!";

char Character = pratik[0];

System.out.println(Character);

}

}

Q3

--release 21 –enable-preview Sample.java

–enable-preview Sample

Hello World

Q4

a)

Output

Error: recursive constructor invocation

This statements will cause infinite loop so system will give this error

b)

ExaminationMid

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

Hence this output

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@123a439b

Q5

3 objects will be created

1st object at str1

2nd at str2

3rd at str 5 new keyword is used so bject is created

No object will be created for str 3 and str 4 as they are copy of str 1 and str2 respectively