Mid Term Paper

Q1) a) Ans = 80 : - Binary representation of y: 0000 0000 0000 0000 0000 0000 0000 1010

Rotate left by 3 bits: 0000 0000 0000 0000 0000 0000 1010 0000

Decimal value of the rotated integer: 80

Q1) b) Ans = True :- here s point to the same memory location.

Q1) c) Ans = 27 :- The value of the y is 10 so 10 + 17 = 27.

Q1) d) Ans = Error.

Q1) e) Ans = -1944 : - Short is of 2 bits=2^16 = 65536

9042024%65536 = 63592

63592-65536= -1944

Q2) a) Ans = Error :- here the class is not found.

b) Ans = Error:- refers to a string literal which has not been closed. a string literal doesn’t end with a double quote;

c) Ans =here we give the string but the array is required.

Q3) Command :- java – enable – preview class name.

Q4) a) Ans = Error here the constructor is call reccurence.

b) Ans = Output :- Examination : Mid

Here the string is immutable.

c) Ans = Error :- here the memory is full.

d) Ans = Output:- 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

Here the static block of parent class (Exam) execute first then the static block of child class(MidTerm)

Then it come to main block it execute it then before the constructor call init block is call and init block of parent class is called at the time of child class constructor is invoked.

Q5) Ans = 3

"Mid" - created when str1 is initialized.

"Term" - created when str2 is initialized using the new keyword.

"Mid" - no new String object is created here, as it's assigned the same value as str1.

str4 points to the same object as str2, so no new object is created.

"term" - created when str5 is initialized using the new keyword.

So, a total of 3 String objects are created at runtime.