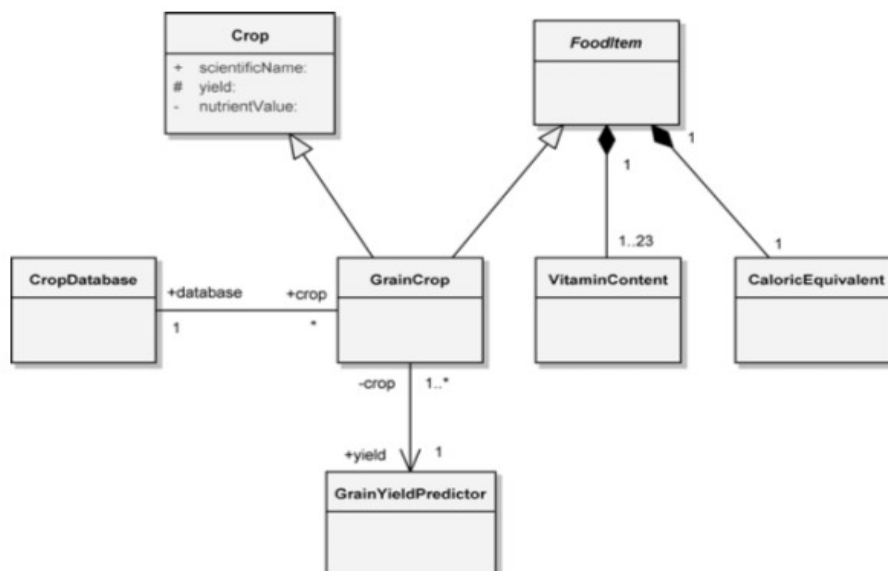


Max. Marks: 45



Question-3

Read the sample Java code given below.

```
1  package org.jnetpcap.examples;
2  import java.util.ArrayList;
3  ...
4  public interface JCaptureHeader {
5      public abstract long timestampInNanos();
6      ....
7  }
8  public class PcapCapture implements Serializable, List<PcapPacket> {
9      public static void main(String[] args) {
10         List<PcapIf> alldevs = new ArrayList<PcapIf>();
11         StringBuilder errbuf = new StringBuilder();
12         Object tempCache = new StringBuilder();
13         int r = Pcap.findAllDevs(alldevs, errbuf);
14         if (r == Pcap.NOT_OK || alldevs.isEmpty()) {
15             System.err.printf("Can't read list of devices, error is %s", errbuf.toString());
16             return;
17         }
18         PcapIf device = alldevs.get(0);
19         Pcap pcap = Pcap.openLive(device.getName(), 1024,...);
20         ...
21         pcap.loop(10, jpacketHandler, "jNetPcap rocks!");
22         pcap.close();
23     }
24     public long timestampInNanos() {
25         ....
26     }
27     PcapCapture() {
28         ....
29     }
30     PcapCapture(alldevs) {
31         ....
32     }
33 }
```

- A. Identify the relevant elements of object model that have been implemented on numbered lines. (9M)
B. Draw a collaboration diagram for the code given. (6M)