BRAC UNIVERSITY Department of Computer Science and Engineering

Examination: Quiz Duration: 30 minutes

Semester: Summer 2024 Full Marks: 25

CSE 470: Software Engineering

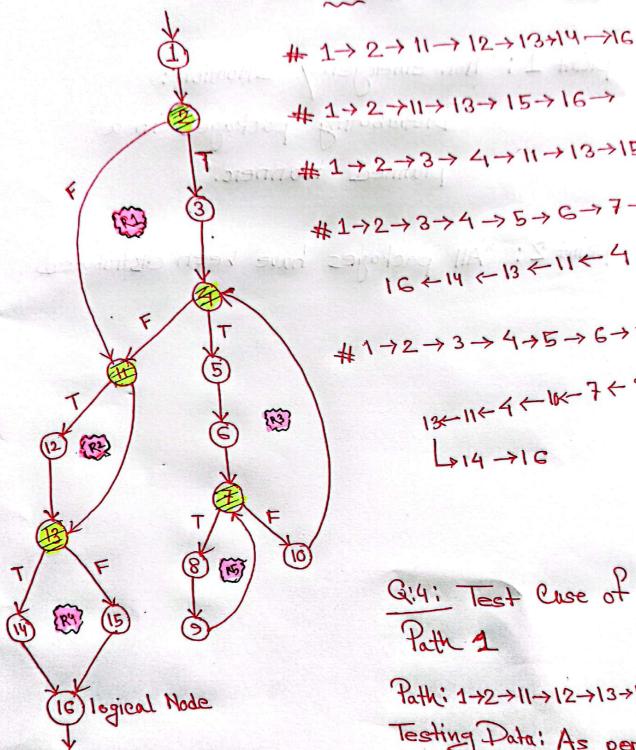
Name:

Take a look at the following code snippet

ID:

Section:

```
JAVA CODE
                                                                                       PYTHON CODE
public class BangladeshRelief {
  public static void main(String[] args) {
                                                                   def main():
    Scanner scanner = new Scanner(System.in);
                                                                     total_packages = 100
                                                                     distributed_packages = 0
     int totalPackages = 100;
                                                                     is_emergency = True
     int distributedPackages = 0;
     boolean isEmergency = true;
                                                                     if is_emergency:
     if (isEmergency) {
                                                                       print("Emergency situation: Start distribution of relief
       System.out.println("Emergency situation: Start
                                                                   packages.")
distribution of relief packages.");
                                                                       while distributed packages < total packages:
       while (distributedPackages < totalPackages) {
                                                                          print(f"Distributing package {distributed_packages
          System.out.println("Distributing package" +
                                                                   +1}")
(distributedPackages + 1));
                                                                          for family in range(1, 4):
          for (int family = 1; family <= 3; family++) {
            System.out.println(" Giving to family " + family);
                                                                            print(f" Giving to family {family}")
                   distributedPackages++
                                                                          distributed_packages += 1
                                                                     elif not is_emergency:
     else if (!isEmergency) {
                                                                        print("Non-emergency situation: Distributing packages
        System.out.println("Non-emergency situation:
                                                                   in a planned manner.")
 Distributing packages in a planned manner.");
                                                                      if distributed_packages >= total_packages:
                                                                        print("All packages have been distributed!")
     if (distributedPackages >= totalPackages) { -
        System.out.println("All packages have been
                                                                        print("Some packages are still remaining.")
 distributed!");
     } else {
        System.out.println("Some packages are still remaining.");
                                                                       _name__ == "__main__":
                                                                   main()
```



Q2. Cyclometric Complexity, M=P+1 M=R+1 = 5+1 =5+1 = 6 M=E-N+2P = 20-16+2-1

= 4+2

1 > 2 > 11 > 13 > 15 > 16 -> #1+2->3-> 4->11->13->15->16 #1->2->3->4->5->6->7->10 16-14-13-11-4-#1-12-3-4-5-6-7-18 134-11-4-16-7-9-14 ->16

> Q:4: Test Case of Path 1

Path: 1+2-11-12-13-14-16 Testing Data: As perc the path's executionable Condition we have to consider the following value as our testing value! totalPackages =100 distri butedlackayes=100 is Emergency = false

Expected Butcome from test Case: print 1: "Non-emergency situation: Distributing packages in a planned manner." イナーシーノイトトナーターター工業 print 2: "All packages have been distributed." · = - F - 11 - 11