CALIDAD DE SERVICIOS DE RED (TLMG1005)
FINAL EXAM ---- 2018-II TERM

STUDENT: **ID:**

Quien firma, acepta cumplir como estudiante lo dispuesto en el Código de Ética de la ESPOL, con respecto al capítulo "Comportamiento de la Comunidad Politécnica" en todos sus artículos. En caso de no cumplimiento, aceptaré las sanciones que disponga la ESPOL hacia mi persona.

Student signature:

Circle the best answer among the options given (10 points each)

1) The method for prioritizing contention-based wireless medium access by classifying 802.11 traffic into categories to support QoS services is:
    a) Distributed Coordination Function (DCF)
    b) Point Coordination Function (PCF)
    c) Hybrid Coordination Function (HCF)

2) The method for contention-free services that supports non-QoS stations is:
    a) Distributed Coordination Function (DCF)
    b) Point Coordination Function (PCF)
    c) Hybrid Coordination Function (HCF)

3) Low latency is provided for real-time transmissions for assessing quality of experience (QoE) when:
    a) Customers access to time-sensitive applications.
    b) Customer access to delay-sensitive applications.
    c) Customer access to latency-sensitive applications.

Provide argued answers with technical criteria (10 points each)

4) Regarding to Weighted Fair Queueing (WFQ), explain the data traffic behavior according to the queue size and the bandwidth available.

5) Explain how is set the "*weight*" criteria for Weighted Fair Queueing (WFQ).

6) When setting policing and shaping in a data network, what happens with the type of service (ToS)?

7) Explain a negative effects when setting policing in **content providers**?

8) Explain the convenience of either dropping or delaying a packet when policing is applied?

9) What is the advantage of metering an IP packet stream and marking by coloring (either green, yellow, or red)?

10) Explain at least one feature of using "*soft policing*".