

※ 考生請注意：本試題不可使用計算機。 請於答案卷(卡)作答，於本試題紙上作答者，不予計分。

1. Explain in details the following terminologies. <20%>
 - (A) RFID
 - (B) Huffman coding
 - (C) Hand-over (Handoff)
 - (D) FDDI
2. (20%) Compare the features (ex. Power consumption, connection time, bandwidth, etc.) of the following two DSRC vehicular network standards, (A) 802.11p which extends from the Wi-Fi (802.11) series, and (B) LTE-V2X (appears in 5G) is extended from mobile communication technologies.
3. (20%) Which is Internet of Thing (IOT) ? Discuss the IOT features and possible applications in Smart City scenario.
4. (10%) Please give at least five communication schemes in a smartphone, and brief describe them.
5. (10%) An IPV4 classless address is given as 167.199.170.82/27. What is first address, and last address of this subnet?
6. (10%) What does Error control mechanism at the transport layer be responsible for?
7. (10%) Describes the three step TCP connection establishment and four steps TCP connection terminate.