

※ 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. <25%>
 - (A) 3-way handshake
 - (B) Vehicle Ad Hoc Network (VANET)
 - (C) CSMA / CD
 - (D) SACK
 - (E) Proxy Server
2. (10%) What does Error control mechanism at the transport layer be responsible for?
3. (20%) Which layer in TCP/IP model should the following items be in ?
(ex. Twisted Pair → Physical Layer)
 - A. TELNET,
 - B. Switch,
 - C. WiFi AP,
 - D. IP Address,
 - E. Router,
 - F. Port Number,
 - G. Retransmission,
 - H. Business rule,
 - I. SCTP,
 - J. Framing
4. (10%) Why TCP/IP protocol does not be replaced by the OSI model?
5. (15%) What is DDoS? What is PING? Explain how to use PING to achieve DDoS.
6. (10%) What is Internet of Thing (IOT)? What are the features of IOT?
7. (10%) Connect the following Network or Transport layer protocols to the application layer protocols (1-to-1 mapping).
(A) UDP, (B) TCP, (C) SCTP, (D) IPV4, (E) ICMP
(1) Multimedia communication, (2) SMTP, (3) DHCP, (4) PING, (5) DNS