

**BACHELOR OF TECHNOLOGY (C.B.C.S.) (2014 COURSE)**  
**B.Tech.Sem - VIII IT :SUMMER- 2022**  
**SUBJECT : ADVANCED TCP/IP**

Day : Wednesday  
Date : 22-06-2022

**S-13440-2022**

Time : 02:30 PM-05:30 PM  
Max. Marks : 60

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**N.B.**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Assume suitable data if necessary.
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**Q.1** Draw and describe TCP/IP protocol architecture. **(10)**

**OR**

**Q.1** Explain open system interconnection (OIS) network model. **(10)**

**Q.2** Explain dynamic and static IP addresses with their application. **(10)**

**OR**

**Q.2** Explain use of IP fragmentation. **(10)**

**Q.3** Draw and explain BOOTP message format. **(10)**

**OR**

**Q.3** Explain how RARPC (reverse address resolution protocol) used for dynamic address allocation. **(10)**

**Q.4** Describe dynamic routing with its advantages and disadvantages. **(10)**

**OR**

**Q.4** Discuss the main components of dynamic routing protocols. **(10)**

**Q.5** Describe operation of sliding window protocol. **(10)**

**OR**

**Q.5** Explain user datagram protocol and describe its applications. **(10)**

**Q.6** Compare IPv4 and IPv6. **(10)**

**OR**

**Q.6** Explain IPv6 Header with its various fields and its description. **(10)**

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