

**CDOE**  
**BACHELOR OF COMPUTER APPLICATIONS**  
**B.C.A. Sem-V : WINTER :- 2021**  
**SUBJECT: ADVANCED NETWORKING**

**Day : Friday**  
**Date 25-02-2022**

**W-5342-2021**

**Time : 10:00 AM-01:00 PM**  
**Max. Marks: 80**

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**N.B.**

- 1) Attempt **ANY FIVE** questions from Section – I and **ANY TWO** questions from Section – II.
  - 2) Figures to the **RIGHT** indicate **FULL** marks.
  - 3) Answer to both the sections should be written in **SAME** answerbook.
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**SECTION - I**

- Q.1** What is Internetworking? Explain in detail the architectural model of Internetwork. **(10)**
- Q.2** What are different internet addressing schemes. Explain classful addressing schemes in brief. **(10)**
- Q.3** Explain the process of address resolution through direct mapping and dynamic binding. **(10)**
- Q.4** Explain the functionality of Reverse Address Resolution Protocol in brief. **(10)**
- Q.5** Explain multiplexing and demultiplexing in User Datagram Protocol. **(10)**
- Q.6** Explain various steps involved in establishing and closing a TCP connection. **(10)**
- Q.7** Write short note on **ANY TWO** of the following. **(10)**
- i) IP multicast addresses
  - ii) Asynchronous Transfer Mode
  - iii) WAN technologies
  - iv) Reserved and available port numbers

**SECTION - II**

- Q.8** Explain subnetting and supernetting with appropriate example. **(15)**
- Q.9** What is segmentation? Explain TCP segment format in detail. **(15)**
- Q.10** Explain various fields in UDP header and explain its use. **(15)**

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