

**SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI**  
**Hanuman Vyayam Prasarak Mandals's**  
**College of Engineering & Technology, Amravati**  
**Course: Information Technology**  
**BE Four Year Semester (Information Technology) Summer 2020 Exam**  
**Subject: 6IT04 Computer Network**  
**Assignment for ONLY BACKLOG STUDENTS**

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**Instructions**

- 1) Solve ANY TWO Questions**
- 2) Each Question Carries 10 marks**

**QI) Solve the following**

- 1) What are the various uses of computer network?[2M]
- 2) Explain the concept of 'framing' in the data link layer. [2M]
- 3) Explain: Bit map protocol as a collision free protocol [2M]
- 4) What are the design issues of network layer? Explain in brief [2M]
- 5) What are the design issues of transport layer? [1M]
- 6) What is DNS? How a resolver looks up a remote name in eight steps? [1M]

**Q II) Solve the following**

- 1) Compare the OSI and TCP/IP reference Models in brief. [2M]
- 2) Explain the simplex stop and wait protocol [2M]
- 3) Explain: Bit map protocol as a collision free protocol [2M]
- 4) Explain the "shortest path routing" and "Flooding". [2M]
- 5) What is wireless TCP and UDP? [1M]
- 6) Explain the brief principal DNS resource record types for IPV4 [1M]

**QIII) Solve the following**

- 1) ) List two advantages and two disadvantages of having international standard for network protocol [2M]
- 2) Explain the Point-To-Point Protocol. [2M]
- 3) Compare 802.11 and 802.16. [2M]
- 4) What are the various requirements for quality of services? [2M]
- 5) Explain “addressing” with respect to transport protocols [1M]
- 6) Explain RFC822 in brief [1M]

**QIV) Solve the following**

- 1) Explain Concept of wireless network in brief [2M]
- 2) Explain the simplex stop and wait protocol [2M]
- 3) Explain Static and dynamic channel allocation in LAN and MAN [2M]
- 4) Explain the Leaky Bucket Algorithm. [2M]
- 5) Explain Remote Procedure Call ( [1M]
- 6) What is SMTP? Explain.[1M]