

**Goa Vidyaprasarak Mandal's**  
**GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE AND**  
**ECONOMICS, PONDA-GOA**  
**B.C.A (SEMESTER-IV) SUPPLEMENTARY EXAMINATION,**  
**MAY/JUNE 2018**  
**COMPUTER NETWORKS**

**Duration: 2 Hours**

**Marks: 50**

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*Instructions: 1) All questions are compulsory.*  
*2) Figures to the right indicate marks.*

- Q I) A. Define the following terms: (05\*01=05)
1. Mesh Topology
  2. Broadcasting
  3. Flow Control
  4. Repeater
  5. Subnet
- B. Answer the following:
1. Briefly explain the functions of Data link Layer. (2)
  2. State and explain different types of wireless transmission media. (3)
- QII) Answer the following:
1. Explain with a neat diagram OSI Reference Model. (5)
  2. Explain Twisted Pair Cable with a neat diagram. (3)
  3. Write a short note on Star Topology. (2)
- QIII) Answer the following:
1. Differentiate between Virtual Circuits and Datagram. (2)
  2. Write a short note on Stop and Wait Protocol. (3)
  3. Explain the HDLC Protocol frame format. (5)
- QIV) Answer the following:
1. Illustrate with an example working of Distance Vector Routing Algorithm. (5)
  2. Explain in detail IP header frame format. (5)
- QV) Answer the following:
1. Explain the purpose of SMTP Protocol. (2)
  2. Explain UDP Header format. (3)
  3. Write a note on Domain Name System. (5)

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