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CS-68

**BACHELOR IN COMPUTER  
APPLICATIONS****BCA (OLD)****Term-End Examination****December, 2019****CS-68 : COMPUTER NETWORKS***Time : 3 Hours**Maximum Marks : 75*

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*Note : Question No. 1 is compulsory. Answer any  
three from the rest.*

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1. (a) Which OSI layer performs the following tasks : 6
- (i) End to end reliable connection
  - (ii) e-Mail service
  - (iii) Congestion control
  - (iv) Routing
  - (v) Framing
  - (vi) Error control

- (b) What does an ATM stand for ? Draw a diagram of ATM network model and explain with the help of this diagram operation of ATM Network. 8
- (c) Explain Selective Repeat Retransmission Strategy with the help of an illustration. How is it different from Stop and Wait retransmission strategy ? 6
- (d) What are the data rates for a BRI and PRI in ISDN and who are the subscribers ? 4
- (e) What are the features for cause congestion in the Network ? Explain. 6
2. (a) What are the tradeoffs existing between virtual circuits and datagrams ? Discuss any *four*. 8

- (b) What is guided media ? Explain important characteristics of broadband and baseband coaxial cables. 7
3. (a) Describe the significance of the following ATM header : 10
- (i) Virtual path identifier
  - (ii) Virtual channel identifier
  - (iii) Header Error Control
  - (iv) Payload type identifier
  - (v) Cell loss priority
- (b) Explain, what is DNS and its purpose. Write any *four* domains along with their meanings. 5
4. (a) Discuss advantages and applications of ISDN. 10
- (b) Explain the working of RPC (Remote Procedure Call). 5

5. (a) Discuss key differences between OSI reference model and TCP reference model. 6
- (b) What is the need of multiplexing of transport layer ? Explain. 3
- (c) Describe the features of the following : 6
- (i) FTP
  - (ii) WWW