4701   *Your Roll No.* ....

B.Sc./II/NS   **AS**

COMPUTER SCIENCE — Paper IV

(Computer Networks and Internet)

(Admissions of 1999 and onwards)

Time : 3 Hours   *Maximum Marks : 38*

(Write your Roll No. on the top immediately
on receipt of this question paper.)

All *questions are compulsory.*

1. (a) What is cyclic redundancy code ? How is it useful
        in detecting errors ?   (1+3=4)

    (b) Describe, how the Layers in ISO-OSI reference
        model correspond to the Layers in TCP/IP
        reference model.   (4)

2. (a) What is CSMA/CA protocol ? Where is it
        used ?   (4)

    (b) What are the different special addresses defined
        by IP, which are reserved ?   (3)

3. (a) What are the various services that TCP provides
        to applications ?   (4)

(b) What is a bridge ? Why have the bridges become more popular than repeaters ?   (3)

4. (a) What is SMTP protocol ? Where is it used ?

                                                    (4)

(b) What are the different file types and transfer modes of File transfer protocol ?   (4)

5. (a) What is meant by 'best-effort delivery' of IP protocol ?   (4)

(b) What are the different components of a web browser ? Explain them in brief.   (4)