

EEC069 (B)

SATELLITE COMMUNICATION

EVENING Shift: May 19, 2015

Corrections: Q4 and Q5 are as follows.

Time allowed: 3 hours

Maximum marks 100.

4. Attempt any **two** parts of the following:

(10×2=20)

- a. What are the propagation impairments that affect the design of the satellite communication systems? Why C-band satellite transmission is most suitable?
- b. The generator polynomial of a (7, 4) cyclic code is $G(a) = x^3 + x^2 + 1$, obtain all the code vectors for the code in non-systematic form.
- c. Describe the rain and ice effect on propagation in satellite communication.

5. Attempt any **two** parts of the following:

(10×2=20)

- a. State and explain various segments of GPS system.
- b. Write a short note on VSAT.
- c. Explain LEO satellite in brief. Write a short note on GPS.