

# Data Communication

TE (Elect.)

Sem. I. Pattern 2012 In Sem. Aug 2015

## Marking Scheme

TE/I, Sem. - 132

- Q 1 a) Four factors 4M  
Two Advantages 2M.
- b) Def<sup>n</sup> of BRI and its specifications - 2M  
" PRI " " 2M
- Q 2 a) OSI Architecture - 2M  
Explanation of at least four layers 4M.
- b) Each comparison - 1M
- Q 3 a) Each correct waveform -  $1\frac{1}{2}$  M.
- b) Correct ans. 4M.
- Q 4 a) DPCM Transmitt. Bk. diag. \_\_\_\_\_ 1M  
" Rece<sup>r</sup> " \_\_\_\_\_ 1M  
Working \_\_\_\_\_ 3M  
Application or comparison with PCM/DM 1M
- b) 'h(t)' waveform with labels - 2M  
'y(t)' " " <sup>magnitude</sup> 2M
- Q 5 a) i) code rate - 1M  
ii) Each code vector - 1M (Total 3M)  
iii) code wts. - 2M (Each 1M)
- b) Correct algorithm - 3M  
One advantage - 1M
- Q 6 a) i) Correct CRC - 3M  
ii) Correct decision - with standard procedure - 3M
- b) Def<sup>n</sup> of FEC and BEC - 2M  
One example each with brief explanation - 2M
- X —