

Con. 5720-RC-7232-08.

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Define and explain types of small scale fading based on Multipath time delay and 10 4. (a)Doppler spread. 10

- (b) Differentiate between the following :
 - Flat fading and frequency selective fading. (i)
 - Fast fading and slow fading. (ii)
- Explain Data Services in DECT and PACS. 5. (a)
 - Explain with Architecture : (b)
 - High speed circuit switched Data in GSM (i)
 - General Packet Radio Services (GPRS). (ii)

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- (a) In respect of CDMA system explain the following : 6.
 - Power Control Subchannel (i)
 - Orthogonal Covering. (ii)
 - (b) Explain the forward CDMA channel Modulation process with the help of neat block 12 diagram.

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- Explain the Common Control Channels and Dedicated Control Channels used in GSM 8 7. (a) system. 6
 - (b) Explain cell splitting.
 - Explain the Authentication, Cipherkey generation and Encryption pocess in GSM. (C)