

The Open University of Sri Lanka
B.Sc Degree Programme – Level 05
Department of Mathematics and Computer Science
No Book Test 2 – 2015/2016
CPU3152: Data Communication



Duration: **One hour only (1 hour only)**

Date: **06.11.2016**

Time: **9.00 am – 10.00 am**

Answer ALL Questions.

All Questions carry equal marks.

Index Number :

Q1.

I. What do you understand by the term **Full Duplex**? Briefly explain.

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II. What do you understand by the term **Multiplexing**?

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III. **State & draw** five types of line configurations? (Proper identification should be used).

Draw the diagram here.



IV. Briefly state an advantage and a disadvantage of **Ring** configuration?

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Q2.

I. What is **Pulse Code Modulation**?

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II. Briefly explain how to convert an analog signal with 4 kHz band with, into a PCM bit stream with the lowest possible sampling frequency (f_s).

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III. What is the quantization error of the above?

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IV. What is **the main** difference between **TDM, FDM & CDMA** ?

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