



**UNIVERSITI KUALA LUMPUR**  
**Malaysia France Institute**

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**FINAL EXAMINATION**  
**JULY 2010 SESSION**

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**SUBJECT CODE** : FCB 40502  
**SUBJECT TITLE** : NETWORK AND MANAGEMENT SYSTEMS  
**LEVEL** : BACHELOR  
**TIME / DURATION** : 8.00 pm – 10.00 pm  
( 2 HOURS )  
**DATE** : 8 NOVEMBER 2010

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**INSTRUCTIONS TO CANDIDATES**

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1. Please read the instructions given in the question paper CAREFULLY.
2. This question paper is printed on both sides of the paper.
3. Please write your answers on the answer booklet provided.
4. Answer should be written in blue or black ink except for sketching, graphic and illustration.
5. This question paper consists of ONE (1) section. Answer ALL questions.
6. Answer all questions in English.
7. Appendix is appended

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THERE ARE 6 PAGES OF QUESTIONS, EXCLUDING THIS PAGE.

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SECTION A

INSTRUCTION: Answer ALL questions.  
Please use the answer booklet provided.

Question 1

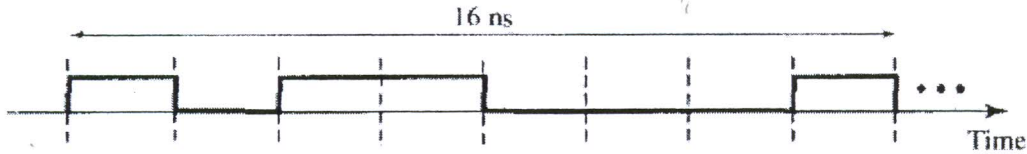


Figure Q1.a

(a) What is the bit rate for the signal in Figure Q1.a?

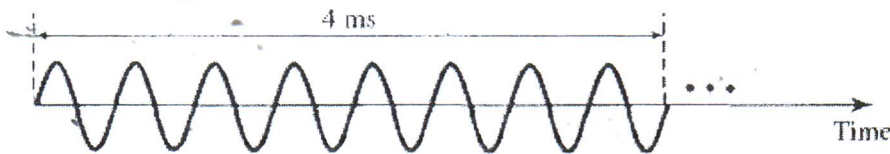


Figure Q1.b

(b) What is the frequency of the signal in Figure Q1.b?

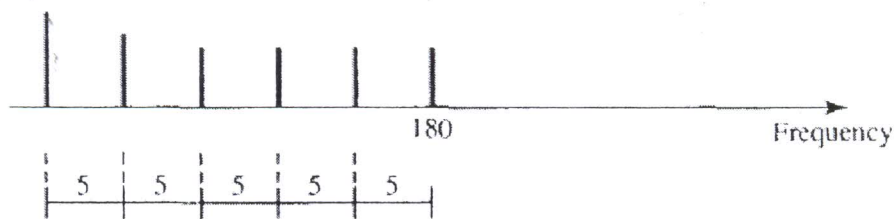


Figure Q1.c

(c) What is the bandwidth of the composite signal shown in Figure Q1.c?

(d) We have a channel with a 1-Mhz bandwidth. The SNR for this channel is 63. What are the appropriate bit rate and signal level?

