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CONFIDENTIAL

SET B

UNIVERSITI KUALA LUMPUR
Malaysia France Institute

FINAL EXAMINATION

JULY 2010 SESSION

SUBJECT CODE	:	FEB 10202
SUBJECT TITLE	:	ELECTRICAL PRINCIPLES
LEVEL	:	BACHELOR
TIME / DURATION	:	9.00am – 11.30am (2.5 HOURS)
DATE	:	09 NOVEMBER 2010

INSTRUCTIONS TO CANDIDATES

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 TWO (2) sections. Section A and B. Answer all questions in Section A. For Section B, answer three (3) questions only.
6. Answer all questions in English.

THERE ARE 7 PAGES OF QUESTIONS AND 1 PAGE OF FORMULA, EXCLUDING THIS PAGE.

SECTION A (Total: 40 marks)

INSTRUCTION: Answer ALL questions.

Please use the answer booklet provided.

Question 1

(a) State the definition of:

i. Voltage

ii. Current

iii. Resistance

(3 marks)

(b) If a resistor with a current of 2A through it converts 1000J of electrical energy into heat energy in 15s, what is the voltage across the resistor?

(4 marks)

(c) Determine the resistance and tolerance of each of the following 4-band resistors:

i. Brown, gray, red, silver

ii. Red, violet, orange, gold

(4 marks)

(d) Refer to Figure 1, by given total resistance, RT = 773 Ω, determine:

i. The Vs.

ii. The value of each resistor.

iii. The total power delivered to the circuit.

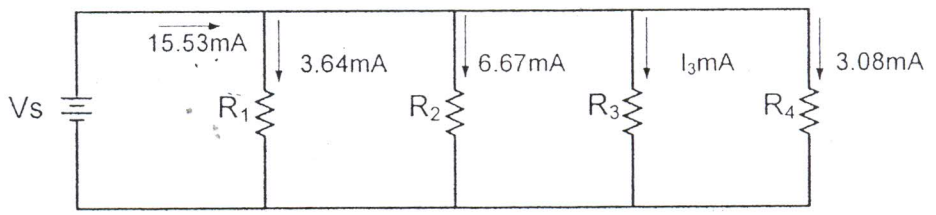

Figure 1

(9 marks)