Menoufia University Faculty of Engineering, Shebin El-Kom Electrical Engineering Department Postgraduate-Master of science



Subject/Code: High Voltage Cables

ELE 621

Year: 2017-2018

Time Allowed: 3 hours Exam Date: 11/1/2018 Total Marks: 100 marks

Answer the following questions

Question 1

First Semester

(35 marks)

- (1-a) Discuss the power losses in high cables.
- (1-b) Write short notes on: Cross-bonding Copper Space Factor
- (1-c) What are the required properties of high voltage cables?

Question 2

(35 marks)

- (2-a) Compare between H and S.L. Cable types.
- (2-b) Describe the cable grading for uniform stress distribution in high voltage cables considering capacitance and intersheath grading.
- (2-c) Compare between external pressure, and internal pressure high voltage cables.

Question 3

(30 marks)

- (3-a) Compare between oil-pressure and gas-pressure high voltage cables.
- (3-b) Explain the routine and type test in high voltage cables.
- (3-c) Why the site test is required in high voltage cables?

With my best wishes

Dr. Amr Abdelhady

			Th	nis exam r	neasures 1	the follow	ing ILOs	
Skills	Knowledge&Understanding Skills				Intellectual Skills			Professional Skills
	al.l	a1.2	a1.5	a1.3	b1.2	b5.1	b5.3	c4.3
C estion Number	1b	la	2a,b,c	3a,c	3c	1c	2b	3a,b,d