Enrolment No: _____

Name of Student: _____

Department/ School: _____

MID TERM EXAMINATION EVEN SEMESTER 2021-22

COURSE CODE	EECE105L	MAX. DURATION	1 HR
COURSE TITLE	Fundamentals of Electrical and Electronics Engineering		
COURSE CREDIT	5	TOTAL MARKS	15

GENERAL INSTRUCTIONS: -

1. Do not write anything on the question paper except **name, enrolment number** and department/school.

2. Carrying mobile phone, smart watch and any other non-permissible materials in the examination hall is an act of **UFM**.

COURSE INSTRUCTIONS: Attempt all the questions. Q1 carries 3 Marks and Q2-Q4 carries 4 Marks.

SECTION A

Max Marks: 15 Marks

1) Consider the wave form shown in Fig. 1. Find peak to peak value and RMS value over one period.
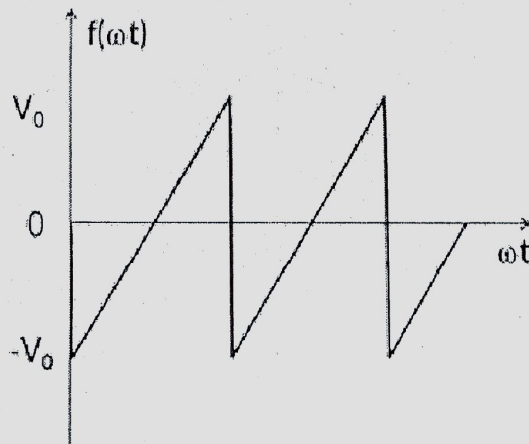
(1+2)

Fig. 1

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2) Using Thevenin's theorem, find Thevenin equivalent resistance (R_{TH}) and Thevenin equivalent voltage (V_{TH}) across load resistor R_L shown in Fig. 2.   (1+3)
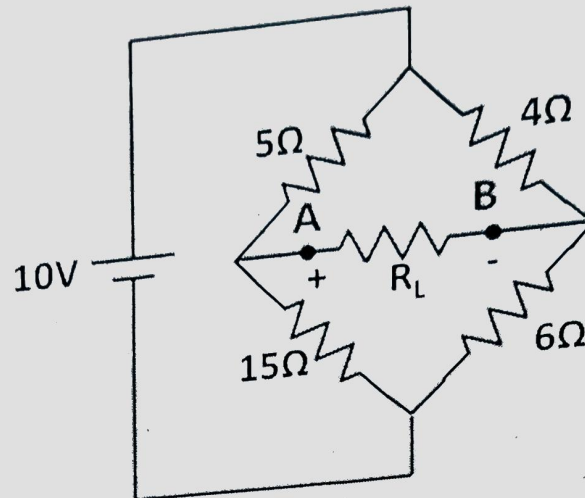

Fig. 2

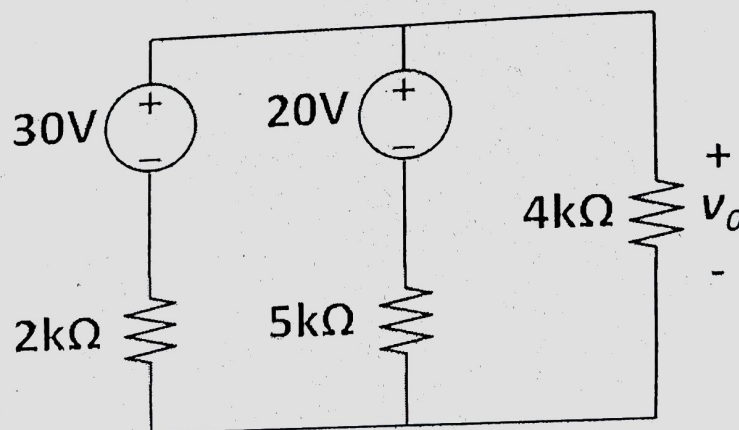3) Using mesh analysis, obtain v_0 in the given circuit of Fig. 3.   (4)
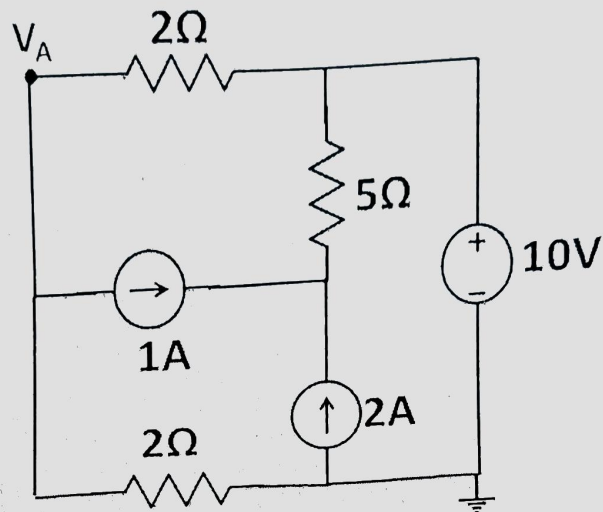

Fig. 3

4) In Fig. 4, find the node voltage V_A.

Fig. 4

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