

TECHNIKA ELECTRICAL HG

1. The following aspects showed an improvement on last year:
 - 1.1 Reasons given for statements were more acceptable.
 - 1.2 Candidates completed more questions.
 2. The following aspects should receive more attention:
 - 2.1 Too many candidates still relied on Question 1 and Question 10 to pass.
 - 2.2 Spelling has become a problem that must receive attention.
 3. The following questions were answered well: 1, 2 and 10.
 4. General problem areas
 - 4.1 Question 1: In complex parallel circuits the inductor and resistor are in series. The vector components of current I_{RL} were wrongly interpreted as I_R and I_L .
 - 4.2 Question 3: In a transformer without losses the input power is equal to the output power. Unnecessary calculations can be prevented by this.
 - 4.3 Question 4: The function of the zero-volt-coil of a contactor was not always clearly expressed. The functional working principle of induction motors and the split phase concept should receive more attention.
 - 4.4 Question 5: This question was answered poorly.
 - 4.5 Question 7: This question on the operation of voltage regulators was answered poorly.
 - 4.6 Question 11: Too many candidates did not complete this question.
-

TECHNIKA ELEKTRIES

1. Die volgende aspekte het 'n verbetering getoon teenoor verlede jaar:
 - 1.1 Redes en motiverings wat gepaard gegaan het met 'n stelling of antwoord was meer sinvol.
 - 1.2 Kandidate het meer vrae voltooi.
2. Die volgende aspekte moet meer aandag geniet:
 - 2.1 Te veel kandidate maak nog staat op vraag 1 en 10 om te slaag.
 - 2.2 Spelling is 'n probleem wat aandag moet geniet.
3. Die volgende vrae is oor die algemeen goed beantwoord: 1, 2 en 10.
4. Algemene probleemareas
 - 4.1 Vraag 1: In 'n komplekse parallelle kring is die induktor en weerstand in serie. Die stroom I_{RL} se komponente is verkeerdelik as I_R en I_L aangedui.
 - 4.2 Vraag 3: By 'n transformator sonder verliese is die insetdrywing gelyk aan die uitsetdrywing. Onnodige berekeninge kan hierdeur vermy word.
 - 4.3 Vraag 4: Die funksie van die kontaktor se nul-volt-spoel was nie duidelik nie. Die werkbeginsel van induksiemotors asook die begrip splitfase moet meer aandag geniet.
 - 4.4 Vraag 5: Hierdie vraag is oor die algemeen swak beantwoord.
 - 4.5 Vraag 7: Die werking van spanningsreguleerders is swak beantwoord.
 - 4.6 Vraag 11: Te veel kandidate het nie hierdie vraag voltooi nie.