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**312315 - Elements of Electrical Engg.
(Sem II)**

As per MSBTE's K Scheme

EJ / ET / AO / DE / EX / IC / IE / IS / MU / TE

Unit V		Electrical protective devices		Marks - 12	
S. N.	MSBTE Board Asked Questions	Exam Year	Marks		
1.	List the types of Fuses.	W-2018	2M		
2.	Explain pipe earthing with a neat labelled diagram.	W-2018	4M		
3.	State the function of the fuse and material used for fuse.	W-2018	4M		
4.	Explain the need of earthing in electrical systems. State the types of earthing and any two advantages of earthing.	W-2018	6M		
5.	Explain with neat diagram, operation of ELCB and two applications.	W-2018	6M		
6.	State function of ELCB.	S-2018	2M		
7.	Give the working of MCCB.	S-2018	4M		
8.	Give the function of fuse and switch.	S-2018	4M		
9.	What is earthing? Give the importance of earthing	S-2018	6M		
10.	Write two applications of each of the following:	S-2018	6M		

	<p>(i) Fuse</p> <p>(ii) MCB</p> <p>(iii) MCCB</p>		
11.	List any two factors that affect earthing.	S-2019	2M
12.	Write any four major points related to rewirable fuse.	S-2019	4M
13.	With neat sketch explain principle of operation of ELCB. Write any two applications of it.	S-2019	6M
14.	<p>(i) State any three methods of reducing earthing resistance.</p> <p>(ii) Write any three major points related to IE rules relevant to earthing.</p>	S-2019	6M
15.	State any two methods of reducing earth resistance.	W-2019	2M
16.	Explain the importance of earthing	W-2019	4M
17.	Explain the working of fuse with neat diagram	W-2019	4M
18.	<p>Explain the operation of each of the following</p> <p>(i) Fuse</p> <p>(ii) ELCB</p>	W-2019	6M
19.	<p>Write any two applications of each of the following</p> <p>(i) ELCB</p> <p>(ii) MCCB</p> <p>(iii) MCB</p> <p>(iv) Fuse</p>	W-2019	6M
20.	Write any four factors affecting an Earth Resistance.	S-2022	2M

21.	Write any four IE rules relevant to Earthing.	S-2022	4M
22.	State the necessity of fuse. List the types of fuses.	S-2022	4M
23.	Which are the different types of earthing ? Draw and label any one type of Earthing.	S-2022	6M
24.	Draw and explain the working principle of ELCB. Write any two applications of it.	S-2022	6M
25.	List any two factors that affect on earth resistance.	W-2022	2M
26.	Write any two applications of each of the following : (i) Fuse (ii) MCCB	W-2022	4M
27.	Write any four major points related to rewirable fuse.	W-2022	4M
28.	State meaning of earthing and importance of earthing. Also explain any one type of earthing used in electrical installation.	W-2022	6M
29.	Explain with neat diagram, operation of ELCB and two applications.	W-2022	6M
30.	State various types of Fuses.	SAMPLE PAPER	2M
31.	Explain importance of Earthing.	SAMPLE PAPER	4M
32.	Explain with neat diagram operation of MCB	SAMPLE PAPER	4M
33.	Explain operation of each of the following: (i) Fuse and (ii) MCB	SAMPLE PAPER	6M
34.	Write any two applications of each of the following: (i) ELCB (ii) MCCB (iii) MCB and (iv) Fuse.	SAMPLE PAPER	6M
35.	List any two factors that affect earthing.	W-2023	2M

36.	Write any four IE rules relevant to Earthing.	W-2023	4M
37.	With neat sketch explain principle of operation of ELCB. Write any two applications of it.	W-2023	6M
38.	Write any two applications of each of the following: (i) MCCB (ii) MCB and (iii) Fuse.	W-2023	6M

Thank You

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