

G. S. Mandal's

Maharashtra Institute of Technology, Aurangabad

(An Autonomous Institute)

END SEMESTER EXAMINATION

Second Year B.Tech (Branch) – Feb/Mar-2023

Course Code: EED204 Course Name : Electrical Engineering Materials

Duration : 2 Hrs Max. Marks : 50

Date : 08 FEB 2023

Instructions :

- i) All questions are compulsory
- ii) Assume suitable data wherever necessary and clearly state it
- iii) Figures to right indicate full marks

Q.1 Answer any five (Marks:10)					
		Marks	CO	BL	PI
a)	Write two applications of Soft magnetic material	2			
b)	Define Josephson Effect	2			
c)	Define Curie Temperature	2			
d)	Write Comparison between Insulator and Dielectric	2			
e)	Define Skin Effect	2			
f)	Write two applications of nanotubes	2			
g)	Draw Diagram of Hysteresis loop	2			
h)	Write two Properties Magnetic material	2			
Q.2	Define Superconductivity and Explain Type I and Type II superconductor	8			
Q.3	Draw diagram of PN junction diode and explain VI characteristic with diagram	8			
Q.4	Write classification of Magnetic material and explain any one	8			
Q.5	Explain Significance of loss tangent and Dependence of loss tangent on Temperature OR Explain piezo-electric material	8			
Q.6	Explain classical Free electron Theory of Metal OR Explain properties and Application of carbon Nanotubes	8			