

PPE

Code - PPE 2029

G. S. Mandal's

Maharashtra Institute of Technology, Aurangabad

(An Autonomous Institute)

END SEMESTER EXAMINATION

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

Course Code : PPE204 Course Name : Material Science

Duration : 2 Hrs

Max. Marks : 50

Date :

10 FEB 2023

Instructions :

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

Q. 1	Answer any five(Marks:10)	Marks	CO	BL	PI
a)	Explain the term refractive index	2	CO1	Level 1	
b)	Define the term tensile strength	2	CO2	Level 1	
c)	What is the formula for calculating strain?	2	CO3	Level 3	
d)	Explain the term unit cell.	2	CO1	Level 1	
e)	State examples of magnetic properties of material.	2	CO3	Level 1	
f)	What is the use of fiber-reinforced material?	2	CO2	Level 3	
g)	Name any two alloys of zinc.	2	CO4	Level 1	
h)	State an example of ceramic.	2	CO6	Level 3	
Q.2	Classify ceramics into different categories.	8	CO4	Level 2	
Q.3	How to evaluate hardness value for a given material?	8	CO2	Level 3	
Q.4	Identify important features of metallic materials.	8	CO4	Level 1	
Q.5	Explain similarities and differences between piezoelectric and pyroelectric materials	8	CO3	Level 2	
Q.6	Draw a tree diagram to classify materials into different categories.	8	CO6	Level 6	