

INTERNATIONAL CENTRE FOR APPLIED SCIENCES MAHE, MANIPAL

B.Sc. (Applied Sciences) in Engg.

End – Semester Theory Examinations – Nov./ Dec. 2020 III SEMESTER - PROCESS PLANT MATERIALS (ICHM 233)

(Branch: Chemical)

Time:	3 Hours	Date: 25 November 2020 Max.	Marks: 50
✓	Answer ALL the quest Missing data, if any, m	ions. ay be suitably assumed	
1.A	Explain the five stag	ges in selection of any material used in industry.	5
1.B	Define (i) ductility	(ii) resilience (iii) fatigue (iv) creep (v) brittleness	5
2.A	Explain in detail the	different types of cast iron and their applications.	5
2.B	Write a short note o a) Forging b) Die Casting	n:	5
3.A	Briefly explain the t a) Lead Glas b) Glass woo	es es	5
3.B	Give a detailed desalining.	cription of the steps involved in the process of rubb	per 5
4.A	What is corrosion a process?	and what are the factors that have an influence on t	the 5
4.B	Compare and contra	st the different types of Polyethylene with its uses.	5
5.A	Where is Non Destruction methods.	ructive testing employed? Write briefly about any to	wo 5
5.B	Explain in detail the of materials (metals	e different factors that affect the mechanical properti	ies 5

ICHM 233 Page 1 of 1