R15

Code No: 128AW

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year II Semester Examinations, May - 2019

COMPOSITE MATERIALS (Metallurgy and Materials Engineering)

Time: 3 hours

Max. Marks: 75

Note: This destion paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Chaits. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

(25 Marries) What is reinforcement Give examples. 1.a) [2] What is a Matrix? Give examples. [3] DOM: (C) Write equations for isostrain and executess. [2]List out the properties of whiskers. dD: [3] Give examples of Metal Matrix Composites. c) [2]What are the advantages of Hot Isostotic Pressing? **f**) [3] (2) Give examples of Ceramic matrix compasites. [2] What are the limitations of Ceramic matrix composites? [31] In b 10 Give examples of Polymer Matrix Composites $\{2\}$ 10 List out the advantages of Polymer Matrix Composites over Ceramic matrix composites.

PART - B

2.a) What are the advantages and limitations of composite materials over alloys.

b) List out the uses of composite materials.

OR

3.a) Explain how reinforcements effect the properties of composite materials

Describe the future potential of composite materials.

- Briefly describe the production method for the following and list out their properties
 - a) Glass fibers
 - b) Carbon fibers.

OR.

- Briefly describe the production method for the following and list out their properties.
 - a) Kevlar fibers
 - b) Boron fibers.

[5+5]

[3]

(50 Marks)

[5+51]

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