

Code No: 128AW

R15

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 question 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 Units. 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 Marks)

- 1.a) What is reinforcement? Give examples. [2]
- b) What is a Matrix? Give examples. [3]
- c) Write equations for isostrain and isostress. [2]
- d) List out the properties of whiskers. [3]
- e) Give examples of Metal Matrix Composites. [2]
- f) What are the advantages of Hot Isostatic Pressing? [3]
- g) Give examples of Ceramic matrix composites. [2]
- h) What are the limitations of Ceramic matrix composites? [3]
- i) Give examples of Polymer Matrix Composites. [2]
- j) List out the advantages of Polymer Matrix Composites over Ceramic matrix composites. [3]

PART - B

(50 Marks)

- 2.a) What are the advantages and limitations of composite materials over alloys. [5+5]
 - b) List out the uses of composite materials. [5+5]
- OR**
- 3.a) Explain how reinforcements effect the properties of composite materials. [5+5]
 - b) Describe the future potential of composite materials. [5+5]
4. Briefly describe the production method for the following and list out their properties.
a) Glass fibers
b) Carbon fibers. [5+5]
- OR**
5. Briefly describe the production method for the following and list out their properties.
a) Kevlar fibers
b) Boron fibers. [5+5]

Anna University Composite Materials Question Paper Chennai

S. O. Pillai



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Rudiments of Materials of Science S. O. Pillai, 2005 Writing A Comprehensive Book On Materials Science For The Benefit Of Undergraduate Courses In Science And Engineering Was A Day Dream Of The First Author Dr S O Pillai For A Long Period However The Dream Became True After A Lapse Of Couple Of Years Lucid And Logical Exposition Of The Subject Matter Is The Special Feature Of This Book The Principal Topics Covered Are Theories Of Metals Superconductivity Magnetism And Magnetic Properties Of Materials Theory Of Semiconductors Dielectrics Optoelectronics And Lasers Miscellaneous Topics An Elementary Treatment Of Basic Topics Namely Solid Formation Crystalline State Wave Mechanics Of Free Electrons Is Found In The Beginning Of The Book A Quick Going Through These Topics May Help The Readers The Power Of Understanding The Main Topics Of The Subject Science Of Condensed Materials With Trifle Effects Trial Based Treatment Of Some Newer Topics In The Form Of Direct Discussion And Conversation Such As Insulating Materials And Their Properties And Uses Light Emitting Diodes And Photon Devices Fibre Optics And Holography Ceramic Materials And Polymers Corrosion And Some Remedies And Composite Materials Is Made Available In About Thirty Pages As The Last Part Of This Book No Author Can Escape Without Providing Objective Questions Problems With Solutions And Tables Giving Physical Properties Of Important Materials That Too In A Book Like This This Book Is Not An Exception In These Features Too The Author Was Very Particular Of The Size And Price Of The Book Hoping That Interested Readers And Students Can Procure One Copy On Their Own And Purse It However The Author Admits That The Feedback From The Readers Alone Will Judge The Spirit Merit And The Degree Of Usefulness Of This Piece Of Work *Who's Who in Science and Engineering* 2008-2009 Who's Who Marquis, Marquis Who's Who, 2007-12

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