

Bachelor in Design (B.Des.) Sem-VI Examination 2017
Furniture & Interior
Paper- FI-VI/03
Material & Process-II

Time 3 Hours

Full Marks: 40

1. A. What is pig iron? 2
B. Briefly describe types and properties of cast iron. 4
C. Distinguish pig iron and cast iron. 4
2. Write short notes (any five) 5 X 2= 10
A. Ribbed (HYSD) bars
B. Wrought iron
C. Zinc
D. Steel
E. Cupola furnace
F. Case hardening of steel
3. Answer the following questions. Marks as indicated 2
A. Name various ores of Copper. 2
B. How copper is extracted from its ore? 2
C. Latin name of copper is 1
D. Why the following situation arises and suggests their possible remedies? 2 X 1.5= 3
I. Barelling
II. Spreading
E. Make diagrams showing rolling defects. 2
4. Answer the following questions. Marks as indicated
A. What do you mean by "Tempering"? 2
B. Describe different types of tempering. 4
C. Write some uses of mild steel & medium carbon steel. 4
5. Answer the following questions. Marks as indicated.
A. Name various ores of Iron. 1.5
B. Latin name of Iron is..... 1
C. Briefly describe cogging operation with diagram. 1.5
D. Distinguish Ignot; Slab; Bloom 1.5
E. How Iron is extracted from its ore? 3
F. What is cupping test and how it is related to property of a rolled material? 1.5
6. Answer the following questions. Marks as indicated.
A. Why metals are called sonorous? 5 x 1= 5
B. What is a metal oxide?
C. What is "no slip point"?
D. What is mandrel?
E. Name two ores of Aluminium and their chemical formula.

(2)

F. Match the Columns in respect to end uses and their material property:

5 x 1= 5

G. Aluminium foil	Resistivity towards corrosion
H. Transmission lines	Ductility
I. Utensils	Expand before material set and shrink when cool
J. Statues	Malleability
K. Jewel	Conductivity
