

Bachelor of Design (B.Des.) Examination, 2018

Semester - V

Specialization in Furniture & Interior

Paper – FI-V/04

(Material & Product Technology – I)

Time: Three Hours

Full Marks: 40

Questions are of value as indicated in the margin.

Answer *any five* questions.

1. Describe the process through which a tradesman used to become a 'Master Carpenter' in the middle age? How many students he used to train in his trade? How does their guild used to function? 4+4=8
2. What are the functions of Angar bit? Describe the manufacturing processes of Sand Paper? 4+4=8
3. Prepare a list of tools and materials 'which you have used for making your own designed furniture in workshop practice classes'? What do you understand by the term 'bradawl' – Discuss? 8
4. Draw a tenon of unequal shoulders and show its different parts? Which rule is followed to make a tenon and mortise joint in a 1" thick wood? When do you use Peg? 4+2+2=8
5. Write short notes on:
 - a) Hinge and cabinets lock. 8

OR

 - b) Ball peen hammer and claw hammer. 8
6. Briefly discuss the 'Band Saw'. 8
7. Describe the making process of Tongue and groove joint? 8
8. a) Fill in the blanks of the following (*any four*): 4x1=4
 - i) The guilds had many _____ rules.
 - ii) Some sand papers have only _____ particles per square inch.
 - iii) Mortise gauge has _____ scribing pins.
 - iv) Peg is generally made of _____.
 - v) Calipers are used in measuring the _____.
 - vi) Mallet are made from _____.
 - vii) Trammel points are used to scribe a _____ circle.
 - b) Why it is so important to use power operated hand tools in today's furniture industries? 4
