Faculty of Archaeology

Undergraduate	Academic Year: 2019/2020	1st Semester

Department	Conservation Department	Program	Organic Conservation	
Course:	Woodcarving and Woodworking		Course Code: CO 202	
Exam Date	2/1/2020	Exam Duration	3 hours	Total Marks:	70 Marks	No. of pages	2

Instructions related to the exam: Please do not answer any extra questions

Group One:

Question 1: Answer <u>the following</u> question: **(20 marks)**
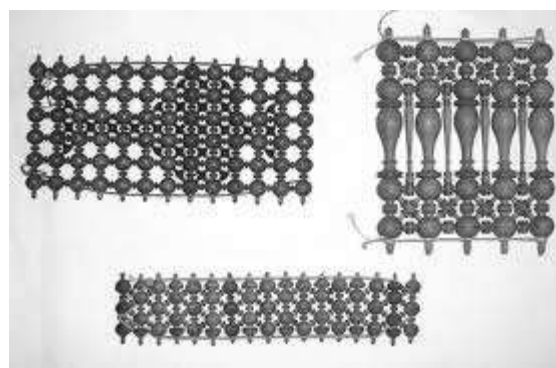

Figure 1

Figure 2

NAME	Density	Hardness	Shrinkage				GLUING
			Radial	**Tangential**	**Volumetric**	**T/R Ratio**	
OAK	.57 - .75	**Medium**	**5.3%**	**10.8%**	**16.4%,**	**2.0**	TAKE CARE
BEECH	.53 - .71	**Medium**	**5.7%**	**11.6%**	**17.3%**	**2.0**	GOOD
PINE	.38 - .45	**Medium**	**3.1%**	**4.7%,**	**7.8%,**	**1.5**	TAKE CARE
CEDAR	.41 - .52	**Medium**	**4.1%**	**6.0%,**	**10.4%**	**1.5**	GOOD

1- Define which wood working methods were applied in figures 1 and 2, and which tools were used in each case.
2- From the data in the table above, which type of wood is appropriate for carving the artifacts in figures 1 and 2. Explain the reason for choosing the wood type.
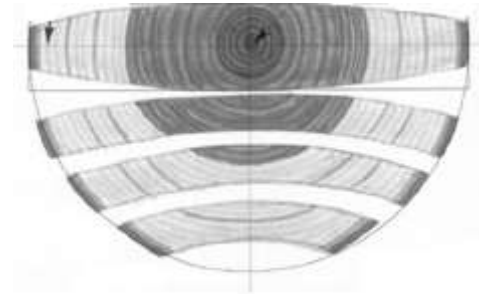
Question 2:

Answer only two of the following questions: (10 marks for each question)

1- Name the most important materials used in wood inlaying
2- Discuss the methods of veneer preparation and its uses in furniture making.
3- Explain the following figure:

Answer only three questions.   (10 Marks per question)

1- Explain the joints and tools used in making the wooden statue shown in the following figure.

2- Explain the chemical composition of lignin.

3- Compare between:

   a. Latewood and Early wood.

   b. Vessels and fibers in hardwood.

4- Explain briefly the following:

   a. Tracheids in softwood.

   b. Chemical composition of Cellulose.

   c. Cambium Cells.

   End of Questions