

B.ARCH-SEMESTER II-INTERNAL EXAMINATION-2016

SUBJECT CODE: 01101152

DATE:14/03/2016

SUBJECT NAME: building materials & construction technology

TIME:11.00am to 2.00pm

TOTAL MARKS: 50

INSTRUCTIONS:

- Attempt all questions.
- Make suitable assumptions wherever necessary.
- Figures to the right indicate full marks.

SECTION A

1. Draw the cross section of tree trunk and label the parts. 05
2. Explain timber first floor in detail with sketches. 05
3. Explain in brief queen post truss and king post truss with sectional elevation. 05
4. Draw and Name any four true arches. 05
5. Write a short note on: pitch roof 05

OR

5. Define the following terms with a sketch:
1. purlin, 2. ridge, 3. eaves board, 4. wall plate, 5. batten

SECTION B

1. How do bearing joints differ from the other joints? sketch various types of halved joints. 05
2. What do you understand by a squint quoin? Draw typical sketches showing acute squint quoin in (A) English bond (B) double Flemish bond. 05
3. Sketch plan and elevation of 1 ½ bk thick pier in English bond and double Flemish bond. 05
4. What is foundation? state the purpose of foundation. Enlist and explain the types of load acting on foundation. 05
5. Write a short note on various applications of metal in building construction. 05

OR

5. Write a short note on various applications of glass in building construction.