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Total Number of Pages: 02

**B.Arch**  
**15AR324**

**3<sup>rd</sup> Semester Regular Examination 2017-18**  
**Advanced Building Materials and Finishes**

**BRANCH: B.Arch.**

**Time: 3 Hours**

**Max Marks: 100**

**Q.CODE: B1035**

**Answer Question No.1 and 2 which are compulsory and any four from the rest.**  
**The figures in the right hand margin indicate marks.**

- Q1 Answer the following questions:fill up the dash. (2 x 10)**
- a) A wood panel glued under pressure from an odd number (usually 3 to 13) of layers/piles of veneers is known as \_\_\_\_\_.
  - b) \_\_\_\_\_ also known as low carbon or soft steel.
  - c) \_\_\_\_\_ glass is bluish green in colour and cuts ultra violet rays of sun.
  - d) Coloured glass is produced by adding \_\_\_\_\_ of metals to molten glass.
  - e) \_\_\_\_\_ is made by sandwiching a layer of polyvinyl butyral between two or more layers of plate or sheet glass.
  - f) Driers also known as \_\_\_\_\_.
  - g) Distemper is made with base as \_\_\_\_\_ and thinner as water.
  - h) Varnish is a nearly homogeneous solution of \_\_\_\_\_ in oil, alcohol or turpentine.
  - i) FRC stands for \_\_\_\_\_.
  - j) RMC stands for \_\_\_\_\_.
- Q2 Write short notes on: (2 x 10)**
- a) Fibre boards
  - b) Particle boards
  - c) Tempered glass
  - d) High carbon steel
  - e) Solvents
  - f) Liquid crystal technology
  - g) Liquid granite
  - h) Glass wool
  - i) Smart windows
  - j) Artificial stones
- Q3 a) What are the different properties of a conventional building material? Explain with one example. (10)**
- b) Give a brief description about contemporary building materials. (5)**
- Q4 a) What are the varieties of concrete used these days? Explain in detail LWC. (10)**
- b) What are the characteristics of smart materials? (5)**
- Q5 a) Briefly explain about wood products. (10)**
- b) What are the application of plastics found in buildings? (5)**
- Q6 a) What are the conventional and advanced forms of glasses used as building materials? (10)**
- b) Discuss about Nano technology based building materials. (5)**

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| <b>Q7</b> | a) Explain the process of preparation of paint.   | <b>(10)</b> |
|           | b) What is distempering?  | <b>(5)</b>  |
| <b>Q8</b> | a) Briefly explain about fibre composite materials.   | <b>(10)</b> |
|           | b) What are rolled steel sections?  | <b>(5)</b>  |
| <b>Q9</b> | a) What is the process of application of aluminum composite panel in exterior?<br>Explain with neat sketches. | <b>(10)</b> |
|           | b) What is litracon? How it is prepared?  | <b>(5)</b>  |