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**R-6101**

**B. Arch. II (Sem. II) (ATKT) Examination**

**May / June - 2010**

**Building Material & Const. - III**

Time : 3 Hours]

[Total Marks : 100

**Instructions :**

(1)

नीचे दृशविले निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="checkbox"/> B. Arch. 2 (Sem. 2) (ATKT)	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="checkbox"/> Building Material & Const. - 3	<input type="text"/>
Subject Code No. : <input type="text" value="6"/> <input type="text" value="1"/> <input type="text" value="0"/> <input type="text" value="1"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="Nil"/>	
Student's Signature	

- (2) All questions to be attempted in one answersheet only.  
(3) Figures to the right indicate full marks.  
(4) Answers with sketches are given more credentials.

1 (a) Fill in the blanks : 20

- (i) Door consists of two parts. One is \_\_\_\_\_ and other is \_\_\_\_\_.
- (ii) In flat slab \_\_\_\_\_ are omitted and \_\_\_\_\_ ceiling is obtained in flat slabs.
- (iii) \_\_\_\_\_ is a vertical member which is provided to subdivide opening vertically. \_\_\_\_\_ is horizontal member which is provided to subdivide opening horizontally.
- (iv) \_\_\_\_\_ is an external projected platform with access from upper floor and \_\_\_\_\_ is a shelter to an opening in a building consisting of small roof.
- (v) Opening is bridged by provision of horizontal member either a \_\_\_\_\_ or \_\_\_\_\_.
- (vi) \_\_\_\_\_ Geometrical stair provide most economical use of space but difficult to use where as \_\_\_\_\_ stair is extravagant in use of space with good features.

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[Contd...

- (vii) Trussed rafter is a triangular roof frame of \_\_\_\_\_ and \_\_\_\_\_
- (viii) \_\_\_\_\_ is the total length of stairs in a horizontal plane, including landings. The width of the stair in a residence should not be less than \_\_\_\_\_ mt.
- (ix) The width of the stair in a residence should not be less than \_\_\_\_\_ mt.
- (x) \_\_\_\_\_ is the total length of stairs in a horizontal plane, including landings. The width of the stair in a residence should not be less than \_\_\_\_\_ mt.
- (xi) Dog-legged stairs are one type of \_\_\_\_\_ turn stairs.
- 2** (a) Explain with neat sketches how doors and windows frames of different materials are fixed with brick wall. **10**
- (b) Explain following terminologies with sketches : **10**  
Landing and flight  
Rafters and Battens  
Span and Rise  
Eaves and Purlin  
Eaves and Ridge.
- 3** (a) Discuss and compare Casement and sash/glaze window with various fixtures and hard wares. **15**
- OR**
- (a) Explain the difference between Sash door and Louvered door with plan and sectional details. **15**
- (b) Explain what is skylight with its function and draw the construction details. **5**
- 4** (a) Explain quarter turn stairs in detail. Draw plans and sectional detail with all necessary details including materials. **15**
- OR**
- (a) Discuss the criteria to design a comfortable stairway for a public building. **15**
- (b) Explain cantilever stair in detail with sketches. **5**

- 5** Attempt any **two** : **20**
- (i) Explain the various factors affecting the selecting wall and floor finishes. Also discuss with appropriate reasons for indoor and outdoor residential spaces with method of construction.
  - (ii) Explain the basic components of pitched roof through neat and clean sketches.
  - (iii) Mention different types of trussed roof and explain any one in detail.

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