



M-6503

Seat No. _____

B. Arch. (Sem. V) Examination

May/June – 2018

Building Materials and Construction - V

(Part - 02 : Construction)

Time : 4 Hours]

[Total Marks : 80

Note : NBC can be referred as required at any given point of time, if required.

1 Short note (any 4) with proper sketches : **40**

- (a) Composition of ACP with various ingredients.
- (b) Composition of Stone composite panel for 20 mm thickness of core.
- (c) Composition of gypsum wall of 80 mm thickness using 2 skin boards of 15 mm thickness on either faces without insulation.
- (d) Composition of gypsum wall of 100 mm thickness using 2 double boards' skin of 12.5 mm thickness on either faces with 50 mm insulation.
- (e) Composition of gypsum ceiling using appropriate suspension.
- (f) Cellulose composite panels detail typical with screw fixing OR structural adhesive at corner joint external.

2 Short notes (any 4) with proper sketches : **40**

- (a) Laminated glass with 2 glass sheets of 6 mm thickness and other one with 2 sheets of 4 mm thickness.

- (b) Double glazing unit
(25 mm thick = 6 mm + air gap + 6 mm)
 - (c) Triple glazing unit
(45 mm thick = 6 mm + air gap + 6 mm + air gap + 6 mm)
 - (d) Sliding Window section @ sill using Al sections OR UPVC sections.
 - (e) Metal joint - riveted, bolted or welded between L and T sections.
 - (f) Explain various types of steel sections, with available lengths.
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