2903N478

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Candidate's	Seat No	1

B.Arch. (Sem.-8) Examination

AR 802 (NS 2015) Advanced Construction

Time: 3-00 Hours

March 2019

[Max. Marks: 100

Instruc	tions: (1) Figures to the right indicate full marks. (2) Assume suitable data, if necessary. (3) Neat proportionate sketches or Diagrams are necessary to explain theories.	
Q-1 Ex	plain In detail with brief –	25
	Slip form Techniques Lift Slab Methods	-0
Give	OR Complete Technical Information for Pre Engineered Buildings	
Q-2 Giv	e Detailed Explanation of following. Any Two.	25
2. 3.	Importance of Construction Waste Management Quality Control in Building Construction (i) Ret Trap Bond techniques (ii) Cavity Wall Insulation Different Types of Retrofitting techniques required for Social Housing.	
tecnniqu	nat is Modular forms and construction Techniques ? Give a Brief explanation why we need these les in Present Building Construction Industry? OR plain with brief – Passive Solar Design Techniques in Mass Housing.	15
1. 2. 3.	olain In brief with neat detailed sketches. Any Two. Sliding Base Isolation System Reinforced Concrete Jacket Method Pre Cast Concrete Hollow Core Slab Construction Technique Trombe Wall Construction Method	15
Q-5 Expl	ain in Brief with required Details. Any Two.	20
b)	Composite Floor Design Consideration for Precast Construction Basic Approach to Affordable and Sustainable Mass Housing Technical approach for Adaptive Reuse in Mass Housing and High-rise Buildings.	

0104N003

Candidate's Seat No:

B.Arch. (Sem.-8) (NS) Examination AR 803

Professional Practice

Time : 2-00 Hours]

April 2019

[Max. Marks: 50

Instructions: 1. Write answer to the point.

Attempt any FIVE questions from the following:

Q.1 Answer any two

(10)

- (a) Explain in Brief, the role of Council of Architecture as per Architect Act-1972 in India.
- (b) Describe schedule of services render by the architect for large-scale Project.
- (c) What are the Architect's responsibilities during period of Building Construction?
- (d) Write Architect's instructions on site.
- Q.2 (a) Define 'Tender' and write various components of Tender.

(05)

(b) Describe the following

(05)

- (1) Security deposit
- (2) Turnkey contract.

Q.3. Define. (Any five)

(10)

- Clerk of works (a)
- (b) Bank guarantee
- Sample and soap drawings (c)
- (d) Defect's liability period.
- Retention money. (e)
- BOQ and SOR. (f)
- (g) Arbitration

Q-4 Answer any two.

(10)

- (a) Describe client's responsibilities in detail with a minimum of Five main points.
- (b) Describe duties of an Architect as an agent of owner.
- (c) What are the different points a budding architect is supposed to consider for setting of a office? Write different statutory requirement architect has to follow during private practice.

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N003-2

(d) Write a letter to contractor to submit the Reconciliation statement for free issue material by client to be submitted with running bill.

Please show the format for the same.

Q-5. (A) Define.(Any five)

(05)

- (a). Depreciation.
- (b). Waiting period
- (c). Mobilization advance.
- (d). Property firms
- (e) Valuation
- (f). Fair market value

Q-5. (B) Answer true or false.

(05)

- (1) Security deposit is a deposit which is submitted while submission of Tender.
- (2) There is no difference between virtual completion certificate and actual Completion certificate.
- (3) Earnest money is refundable.
- (4) Fair Market value and Market value is same.
- (5) Lumsum contract is frequently use in government project.

Q.6. Answer the following. (Any two)

(10)

- (a) Define COST, PRICE and VALUE.
- (b) Different factors affecting the value of the property In general
- (c) Differentiate Scrap value and salvage value
- Q-7. You have been awarded for architectural consultancy work for a Resort project at Daman. The estimated cost of the project is three Crores (RS.3, 00, 00,000/-). Duration of completion of the work is Two years. You will be paid fees at 6%of the cost of the Project. Now calculate
 - a. Total fees consultant will receive and
 - b. Stage wise mode of payment as norms of the Council of Architecture.
 Your answer should be in the tabulated format in cumulative manner as well as actual amount and the percentage at each stage. (10)

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0304N029

B.Arch. (Sem.-8) (NS) Examination

AR 805

Advanced Services

Time: 2-00 Hours]

April 2019

[Max. Marks: 50

Instructions:

- All questions are compulsory
- Support your answer with sketches and figures if required
- Figures to the right indicate full marks

Q-1 writes (Any three)

[12]

- 1) Relation between R value and U value
- 2) What is Thermal balance? Explain it with diagram and its equation.
- 3) What is CCTV? what are the types of CCTV and its System
- 4) Active solar energy
- Q-2 Explain any two

[18]

- i) Installation of Lift and Escalator for high rise Building
- ii) Types of fire Alarm system and Explain any one in Detail
- iii) Advancement in HVAC system
- Q-3 Write short notes (any one)

[10]

- a) Building Automation System
- b) Advance sanitary Fitting for Residential Building
- Q-4 Draw and explain Advance Technology use in swimming pool

[10]
