

L-5/T-2/ARCH

Date : 11/06/2014

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, DHAKA

L-5/T-2 B. Sc. Engineering Examinations 2011-2012

Sub : ARCH 573 (Professional Practice)

Full Marks : 140

Time : 3 Hours

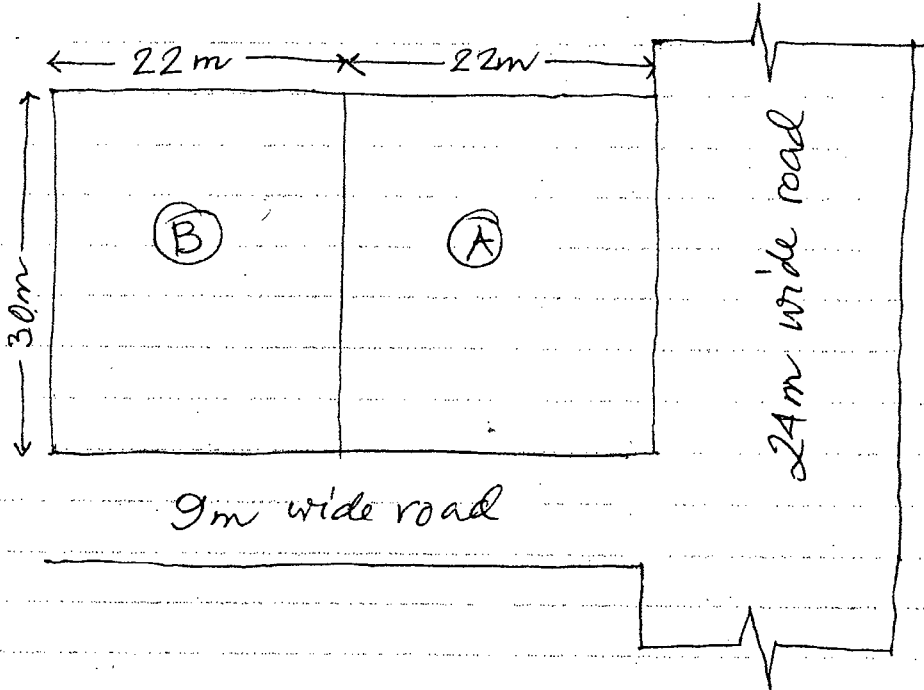
The figures in the margin indicate full marks.

USE SEPARATE SCRIPTS FOR EACH SECTION

SECTION - A

There are **FOUR** questions in this Section. Answer **Q. No. 1** and any **TWO** from the rest.

1.



(i) Calculate the maximum ground ^{Coverage} covering, FAR, typical and total floor area available within FAR, for site A and B for A2 type project at Dhanmondi (As per Emarot Nirman Bidhimala, 2008)

(20)

(ii) If the two plots are combined, determine the Maximum ground coverage, FAR and total area (available within FAR). Consider the width of road to be 24 m and type of project A2.

(10)

2. Discuss in detail, the different methods of selection of architect as per IAB.

(20)

3. (i) Briefly mention the scope of services of an architect.

(7)

(ii) In a mixed use development project at Motijheel describe the design services of an architect.

(13)

4. Write short notes on, (any two)

(10×2)

(i) Standard form of agreement for small projects

(ii) The process of Arbitration

(iii) Different types of architect's compensation.

Contd P/2

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SECTION – B

There are **FOUR** questions in this Section. Answer **Q. No. 5** and any **TWO** from the rest.

5. (a) Discuss in detail the different types of Architectural Competitions. (18)
(b) Roads Division, Ministry of Communications intends to select architectural consultant to build a new Inter-district bus station at Tejgoan, Dhaka. Justify the best possible types of competition. (12)
6. (a) What are the main principles of Code of Ethics and Professional Conduct as per IAB? (7)
(b) Discuss in details. (13)
(i) Obligation to colleagues.
(ii) Obligation to Profession.
(iii) Involvement with other trades.
7. (a) In the context of professional practice what are the different forms of ownership and associations? (7)
(b) Describe the different forms of agreement, checklist of partnership firm and local taxation. (13)
8. Write short notes on any two. (10×2)
(a) Termination of Partnership
(b) Eligibility to Architectural Competition
(c) Sole Practitioner.
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SECTION - A

There are **FOUR** questions in this Section. Answer any **THREE** questions.

1. (a) Enumerate the various challenges that a modern manager has to face. (10)
- (b) Give examples of traditional work values and re-engineered work values. (6)
- (c) Briefly explain how employees may be motivated. (7 1/3)

2. (a) What do you mean by "Span of supervision"? Critically examine the various objections towards increasing the level of supervision and number of executives. (8 1/3)
- (b) The ABC Ltd has a total number of 7500 employees and the span of supervision is related as follows:

For foreman - - - 15

For executives - - - 05

Find out the total number of levels required in the organization and the number of executives to fill up the levels of supervision. (15)

3. (a) Explain with diagram the basic process of decision - making in a business enterprise and highlight the various tools and techniques of decision making. (8)
- (b) In the coming year, the probability is 0.1 that price of commodity will go up by 10%; the probability is 0.5 that the price of commodity will go up by 15%; the probability is 0.2 that the price will remain the same and the probability is 0.3 that the price will go down by 15%. Find out the expected percentage increase in the price of the commodity. (15 1/3)

4. (a) What do you understand by 'Organizational change'? Describe briefly the various factors that lead to such changes. (8)
- (b) Define "Policy" and bring out the principles of a sound policy. (7)
- (c) Write a critical note on "Budgetary Control". (8 1/3)

HUM 311(ARCH)

SECTION – B

There are **FOUR** questions in this Section. Answer any **THREE**.

5. (a) Define and classify "Planning". (5)
(b) Compare and contrast between single-use Plan and standing Plan. (10)
(c) Briefly describe the necessary steps that must be adapted for smooth implementation of a plan. (8 1/3)
6. (a) Define the term "Authority" and "Responsibility". (5)
(b) Describe the various principles of Delegation of Authority. (8 1/3)
(c) Give some instances of bad delegation of Authority. (5)
(d) Mention the type of authority that cannot be delegated. (5)
7. (a) Define and classify inventory. (5)
(b) What are the disadvantages of large buying vis-à-vis small buying. (5)
(c) Samco and Co. sells pump housing to manufacturers. It expects to reduce its inventory cost by determining the optimum number of pump housing to attain minimum cost per order. The estimated demand for the pump is 1,000 units per year. The company estimated that the cost of order writing and incidental charges amounts to Tk. 250 and the cost of holding one unit of pump housing per year stands at Tk. 60 per unit.
Calculate the optimum number of pump housing to be ordered during the year and the frequency of order. Also determine the revised EOQ if the demand for pump housing goes up by 40%. (13 1/3)
8. (a) Write a short note on Operations Research. (5)
(b) The following table shows the necessary information regarding two products namely Air Conditioner and Refrigerator.

| Particulars | Air Conditioner (XA) | Refrigerator (XB) |
|-----------------------|----------------------|-------------------|
| Production Department | 125 or | 100 |
| Cabinet Department | 200 or | 50 |
| Assembly Department | 150 | 120 |
| Contribution per Unit | \$50.00 | \$75.00 |

By using the algebraic and graphical method of Linear Programming, determine the number of products that should be produced to maximize profit. (18 1/3)

SECTION – A

There are **FOUR** questions in this Section. Answer any **THREE** questions.

1. (a) Discuss the components of "Comilla Model" by Akhter Hamid Khan. Why do you think this model has created an example in rural development? (11)
(b) What do you understand by PRSP? Discuss atleast three strategies taken under this program and issues addressed in these strategies. (12 1/3)
2. (a) What are the problems of people's participation in planning? Explain briefly. (9)
(b) What do you understand by PRA and RRA? Differentiate between them. (5)
(c) What adjustments are needed to interpret the information regarding poverty or measurement regarding poverty? Explain briefly. (9 1/3)
3. (a) Differentiate among incidence of poverty, depth of poverty and poverty severity. (3)
(b) Name the ladders of participation. (4)
(c) Incase of monetary indicators of poverty, do you think consumption is a better indicator than income? Explain your reasons. (7)
(d) Mention BRDB's main scheme activities and name some of the projects that were successful. (9 1/3)
4. (a) Discuss the policies taken under the third five year plan. (18)
(b) What are the broad objectives of LGED's development activities? How are they trying to achieve those? (5 1/3)

SECTION – B

There are **FOUR** questions in this Section. Answer any **THREE**.

5. (a) Discuss the scopes and possibilities for an architect to be a role player in rural development planning. (13)
(b) Describe the types of rural markets. (10 1/3)

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6. Our rural areas are changing rapidly. Illustrate the statement with respect to examples from agricultural products and practices, livelihood, housing and transportation in rural Bangladesh. **(23 1/3)**
7. (a) Describe the capitals in a 'livelihood pentagon' **(15)**
(b) When and how rural livelihood can be sustainable? **(8 1/3)**
8. Write short notes on followings: **(23 1/3)**
- (a) Integrated rural development model.
 - (b) Urban rural linkage
 - (c) Growth centre
 - (d) Compact township.
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