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MBA-6502

Seat No. _____

B. Arch. (Sem. V) (CBCS) Examination

November / December – 2016

Environmental Science & Services – III

(SECTION - II)

Time : **2** Hours] [Total Marks : **40**

1 Answer any 3 questions from following : **3×3=9**

(1) Explain distribution of electrical energy in detail

(2) Explain general rules of wiring

(3) Explain solar power generation

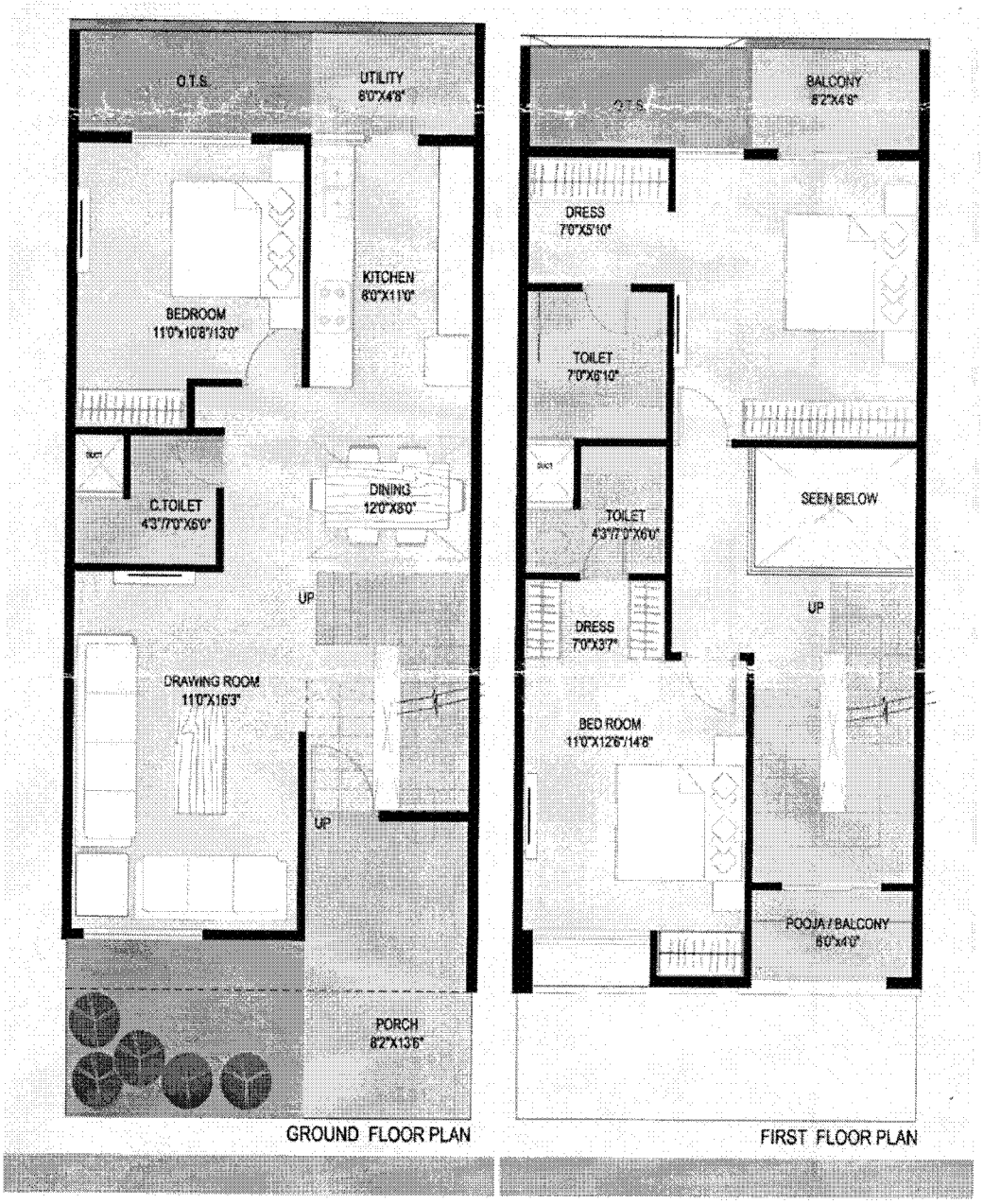
(4) Write a short note on ELCB

(5) Explain MCB

2 An illumination of 125 Lux is required on the working plane in a hall 72 m * 15 m in size. The lamps are required to be hung above 4 m. over work bench. Assuming a suitable space height ratio, a utilization factor of 0.5, a lamp efficiency of 14 lumens per watt and a candle power depreciation of 20%, estimate the number, rating and position of lamps. **8**

3 Explain earthing and any one type of earthing. **8**

4 Design an electrical layout for the plans given below. This may include floor plans and sections with all required indications, switchboard schedule etc. Specify the types of fixtures and their location. Assume the floor height as 3 meters. (1 mt. = 3.27 ft.) **15**


O.T.S.
UTILITY
6'0"X4'8"
BEDROOM
11'0"x10'8"/13'0"
KITCHEN
8'0"X11'0"
C.TOILET
4'3"/7'0"X6'0"
DINING
12'0"X8'0"
UP
DRAWING ROOM
11'0"X16'3"
UP
PORCH
8'2"X13'6"
GROUND FLOOR PLAN
O.T.S.
BALCONY
8'2"X4'8"
DRESS
7'0"X5'10"
TOILET
7'0"X6'10"
TOILET
4'3"/7'0"X6'0"
SEEN BELOW
UP
DRESS
7'0"X3'7"
BED ROOM
11'0"X12'6"/14'8"
POOJA / BALCONY
8'0"x4'0"
FIRST FLOOR PLAN