

SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA
SEMESTER END EXAMINATIONS (REGULAR) APRIL – MAY - 2017

B.PLANNING - I YEAR II SEMESTER

PLANNING PROJECT ESTIMATION (BPLN204)

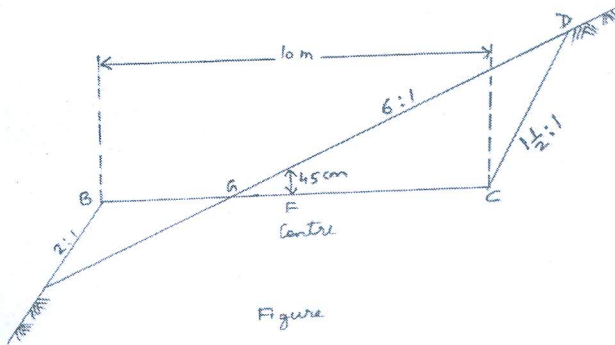
Maximum Marks – 50

Time – 2.00 Hours

a) Answer any Two questions out of 1 to 4 questions.

b) Question No.5 is compulsory and answer any four out of six sub-questions.

- Q1. What is specification? What are the different types of (15M) specifications? Write down general specification for a first class building.
- Q2. What are the general rules of measurement? Write down (15M) the principle of units of different items of work.
- Q3. What are the different types of estimate? Discuss each (15M) type in detail.
- Q4. A road is to be constructed in a wide long ground partly in (15M) cutting and partly in banking. The formation width of road is 10 meter, cross slope of ground is 6:1, side slope in banking 2:1 and in cutting $1\frac{1}{2}:1$, depth at the centre is 45cm although, Calculate the quantity of earth work in banking and in cutting for a length of 200 meter. Estimate the cost of making the formation of the road if the rate of earth work is Rs.275.00% cum.



P.T.O

Q5. Write short notes on any FOUR of the following:

(4x5=
20M)

- a) Prepare a preliminary estimate of a four storey office building having a carpet area of 2000Sq.m for obtaining the administrative approval of the Government given the following data. It may be assumed that 30% of the built up area will be taken up by the corridors, verandahs, lavatories and staircases etc., and 10% of the built up area will be occupied by walls.
- i) Plinth area rate – Rs.950.00 per Sq.m
 - ii) Extra due to deep foundation at site – 1% of building cost.
 - iii) Extra for special architectural treatment 0.5% of building cost.
 - iv) Extra for water supply and sanitary installation – 6% of building cost.
 - v) Extra for Electric installations – 12.5% of building cost.
 - vi) Extra for other services – 5% of building cost.
 - vii) Contingencies – $2\frac{1}{2}\%$
 - viii) Supervision charges – 8%
- b) Measurement of sanitary and water supply works
- c) Earth work
- d) Measurement of road work
- e) Water supply demand (As per IS:1172-1993)
- f) Conversion of land to Urban/Residential use.
