

Estimating - I

(CET- 405)

**Probable Question – 2018 (Summer)
Civil Engg. (4th Sem.)**

Group – A

1. What do you mean by lead and lift? (2016 s new)
2. What do you mean by plinth area and carpet area? (2016 s new)
3. What do you mean by sundries and over head charges? (2016 s new)
4. Name the different government and public sector organization employing civil diploma holders in Odisha state?
5. Duties and responsibilities of junior engineer? (2016s)
6. What is the size of the nominal brick and traditional brick?
7. What do you mean by lump sump? (2016 s new)
8. Explain A.R estimate?
9. How the labourers are classified as per schedule of rate of govt. of Odisha?
(2015snew,2016s old)
10. What is the standard weight of a 12mm diameter HYSD bar of 1m? (2016 s new)
11. What are the units of the following; (2013 s, 2016 s old,2015 s new)
 - i) Reinforcement
 - ii) Quarring of stone
 - iii) Plastering
 - iv) Jungle clearance
 - v) Cement
 - vi) Woodworks in door and windows shutter
 - vii) Brick on edge
 - viii) Stone blocks
 - ix) Formwork
 - x) Honey comb brick masonry
 - xi) Painting on door and window
12. How many standard bricks required for 3.5 cum of brickwork? (2016 s old,2015s)
13. Mention types of inclined roof available? (2016 s old)
14. What are the two main purposes of approximate estimate? (2016 s old)
15. How many cement bags required for 1cum cement supply? (2016 s old)

Group – B

1. Differentiate between plinth area and carpet area of building?
2. Briefly outline the duties and responsibilities of assistant engineer in engineering organisations?
(2012 s old,2016 s old,2011 s old)
3. Writes the short notes on tools and plants. And Contingencies? (2012 s new,2016 s old)
4. What is the difference between Approximate estimate and detailed estimate?
5. Briefly outline the duties and responsibilities of junior engineer in engineering ?
(2010 s,2015 s bp)
6. Differentiate between royalty and conveyance of building materials required for ate analysis?
(2013 s,2013 s old)
7. Differentiate between revised estimate and supplementary estimate? (2012 s new,2015s new)

8. Write short notes on
 - i. Preliminary estimate. (2012 s old)
 - ii. Degree of accuracy in estimating.
9. Explain the different kinds of arbitration according to arbitration Act 1940? (2015 s new)
10. Explain the duties and liabilities of owner, engineer and contractor. (2015 s new)
11. Calculate weight per metre run for steel of sizes ,i- 8mm dia,ii-10mm dia,,iii-12mm dia,,iv 20mm dia bars. (2011 s old,2012 s old)
12. Analysis the rate of the following items by taking cost of labour as per scheduled of rate of OPWD and assume material cost: (2016 s new)
 - i. Cement concrete in foundation (1:4:8)
 - ii. First class brick work (1:6) in superstructure.
13. Calculate the dry material required for 550 sqm of 25mm thick DPC cement concrete (1:1:3) (2015 s new)

Group – C

1. Estimate the quantity of the following items of work of the building for attached figure.fig-2
 - i. Earth work in excavation in foundation. (2016 s, 2010 s, 2012 s old, 2012 s new)
 - ii. Cement concrete in foundation (1:4:8).
 - iii. First class brick work(1:4) in foundation and plinth.
 - iv. 40mm thick DPC with cement concrete(1:2:4).
 - v. First class brick work (1:6) in super structure.
2. Prepare the quantity estimate for the following items of works from the given plan and section of the building.fig-3 (2017(s),2010 s)
 - i. Earth work in excavation.
 - ii. 1st class brick work in foundation and plinth.
 - iii. Inside and out side plastering.
 - iv. 2.5 cm thick DPC of cement concrete (1:3:6).
 - v. Wood work in doors and windows.
3. Estimate the quantities of following items of work of the building for attached figure-5.
 - i. Earth work in excavation in hard soil. (2013 s old, 2011 s old)
 - ii. 1st class brick work in cement mortar (1:6) for foundation and plinth.
 - iii. Cement concrete in foundation (1:4:8).
 - iv. Wood work in door and window.
 - v. 12mm thick cement plaster (1:6) to inside brick masonry.
4. Estimate the quantities following of items of work the building for attached figure-7 (2015s)
 - i. Earth work in excavation in foundation.
 - ii. 1st class brick work (1:4) in foundation and plinth.
 - iii. 2.5 cm thick DPC of cement concrete in(1:4:8).
 - iv. 1st class brick work in (1:6) in super structure.
 - v. 12mm thick cement plaster inside and outside the building.
5. Estimate the quantities following of items of work the building for attached figure-4
 - i. Earth work in excavation in foundation.
 - ii. 1st class brick work (1:4) in foundation and plinth.
 - iii. 2.5 cm thick DPC of cement concrete in(1:4:8).
 - iv. 1st class brick work in (1:6) in super structure.
 - v. 12mm thick cement plaster inside and outside the building.
6. Find the quantity of dry materials for items in question No. 1(ii & iii). (2016 s, 2010 s, 2012 s old, 2012 s new)

