

KADI SARVA VISHWAVIDHYALAYA
B.E. MECHANICAL Semester-VI Examination April 2015

Subject: Engineering Costing and Estimating

Subject Code: ME-606

Date: 08/05/2015

Time: 10:30 am to 01:30 pm

Total Marks: 70

Instructions:

1. Answer each section in separate Answer sheet.
2. Use of Scientific calculator is permitted.
3. All questions are **Compulsory**.
4. Indicate **clearly**, the options you attempt along with its respective question number.
5. Use the last page of main supplementary of **rough work**.

SECTION-I

- Que:1** (A) Differentiate between Estimating and Costing. [5]
(B) List the function of Estimating. Also give the qualities of an 'Estimator' [5]
(C) Explain fixed and variable overhead. [5]

OR

- (C) Explain marketing and cost consideration for pricing. [5]
Que:2 (A) Explain Direct expenses and indirect expenses. [5]
(B) Enumerate objectives of costing. [5]

OR

- (A) Write short note on Economic Batch Quantity. [5]
(B) A plant producing a line of hydraulic valves can supply the factory warehouse at the rate of 750 per month. The warehouse ships 3000 valves per year at a unit selling price of Rs. 250. Considering the plants ordering and set up cost of Rs. 300 and the inventory carrying cost rate of 20%. What quantities should the warehouse order from the plant?

- Que:3** (A) What is the Economic Order Quantity? Derive the formula for the Economic Order Quantity. [5]
(B) State Methods of wage payment and write its advantages and disadvantages [5]

OR

- (A) What is Break Even Analysis? List out the Assumptions, Advantages, Limitations and Applications of Break Even Analysis. [5]
(B) Explain Halsey premium plan and Rowan premium plan. [5]

SECTION-II

- Que:4** (A) What do you know about Mensuration? [5]
(B) Discuss about the estimation of time on following operations [5]
(1) Milling (2) Shaping (3) Grinding

- (C) A lathe is purchased for Rs. 8000 and the assumed life is 10 years [5]
and scrap value Rs. 2000. If the depreciation is charged by
Diminishing Balance Method. Calculate the percentage by which
value of the lathe is reducing every year and depreciation fund
after 2 years.

OR

- (C) Explain Different Operations In sheet Metal Shop. [5]
Que:5 (A) Estimate the machining time to turn a M.S. Bar of 3 cm diameter [5]
down to 2.5 cm for a length of 10 cm in a single cut. Assume
cutting speed= 30 m/min. And feed = 0.4 mm/rev.
(B) Explain Forging operations. [5]

OR

- (A) Cylindrical drum of size 1.5 m high and 1 m mean diameter are to [5]
be fabricated from sheet of 5mm thickness by grooved seam joint
and both the cover should be joined with single seam joint.
Calculate the material cost, if sheet is available at Rs.150 per m².
(B) Explain factors affecting welding cost. [5]
Que:6 (A) Explain the purpose of "Budgetary control" and show its [5]
advantages to a large scale manufacturing concern.
(B) What is "budgetary control" and how is it exercised? [5]

OR

- (A) What is a contract? What are objectives of contract? [5]
(B) Enumerate duties and rights of seller and buyer in contracts. [5]

Best of luck