

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING - SEMESTER – VIII • EXAMINATION – WINTER 2017

Subject Code: 3385501**Date: 02-11-2017****Subject Name: Costing Estimation & Production Management****Time: 02:30 PM TO 05:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make Suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Use of programmable & Communication aids are strictly prohibited.
5. Use of only simple calculator is permitted in Mathematics.
6. English version is authentic.

- Q.1** (a) Describe classification of costs and list costing procedure. **07**
 (b) Describe Meaning of Capital, Estimating, Costing and Bill of Material. **07**

- Q.2** (a) Define Wages and Incentives. Describe methods of wage payment in brief. **07**
 (b) State meaning of Costing. Describe the important aims and objectives of costing. **07**

OR

- (b) Define estimation. Describe Aims and Functions of estimation. **07**
- Q.3** (a) Draw a network diagram for a given activities. Find out critical path and calculate the critical time for project completion. **07**

Activity	A	B	C	D	E	F
Duration in days	7	9	5	10	9	6
Immediate preceding Activity	-	A	A	B	C,D	C

- (b) Describe ABC analysis with sketch. **07**

OR

- Q.3** (a) What is inventory? Describe Functions of inventory control. **07**
 (b) State and explain meaning of product design and process selection. **07**

- Q.4** (a) List out machine shop operations. Describe any three machine shop operation in brief. **07**
 (b) Estimate the machining time to turn a M.S. bar of 3 cm dia. to 2.5 cm for a length of 5 cm in a single cut. Assume Cutting speed as 25 m/min. and Feed rate as 0.1 mm per rev. Neglect time required for setting up tool etc. **07**

OR

- Q.4** (a) Find the time required to drill 10 holes in a flange each of dia. 1.5cm × 2.0 cm depth. Assume cutting speed as 30 m/min and feed as 0.15 mm/ rev. **07**
 (b) Write brief note on Time study. **07**

- Q.5** (a) Describe 5S modern management technique in detail. **07**
 (b) Explain different factors to be considered in manufacturing process selection. **07**

OR

- Q.5** (a) Write brief note on KAIZEN. **07**
 (b) Write brief note on ISO-9000. **07**
