

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA ENGINEERING - SEMESTER-VIII • EXAMINATION – SUMMER • 2014

Subject Code: 385531

Date: 06-06-2014

Subject Name: Quality, Productivity and Safety Management

Time: 02:30 pm - 05:00 pm

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Assume suitable data whenever necessary.
3. Figures to the right indicate full marks.
4. Each question carry equal marks (14 marks)
5. Write your seat no. and enrolment no. in the above given space.
6. Answer with neat sketch whenever necessary and to the point.

Q.1 (a) Explain in brief : Total Quality Management (T Q M) with their benefits. **07**

(b) Define the term Safety. **07**

State “**PREVENTION IS BETTER THAN CURE**” for fire.

Explain in brief methods of extinguishing of fire.

Q.2 (a) Explain in brief : - the spiral of progress in quality. **07**

(b) Explain in brief : Function of Production Planning and Control (P P C). **07**

OR

(b) Explain in brief : Need , objectives and purposes of inspection. **07**

Q.3 (a) List out the various accessories use for arc welding safety. **07**

During various Arc welding process state the shade no of glass (DIN Std.) to be used during welding with reference to electrical Currents / Electrode diameter.

(b) Define the term “Production” ? Explain JOB types production. **07**

OR

Q.3 (a) Explain in brief various control charts used in SQC and explain in brief variables for control charts. **07**

(b) Explain in brief : Kaizen and JIT. **07**

Q.4 (a) Explain in brief concept OF 5 P’S terms : **07**

(b) List out the factors affecting / influencing of productivity
Explain in brief : Any two **07**

OR

- Q. 4** (a) Explain in brief with neat sketch the safety guidelines to be followed for Pressure / Hydro testing. **07**
- (b) Explain in brief quality characteristics and quality parameters. **07**
- Q.5** (a) Explain in brief : various terms used in P.P.C. department of industries **07**
- (b) Classify the various types of chain slings. **07**
 Draw neat sketches of various types of wire rope slings.
 State its' related BIS nos.
- OR
- Q.5** (a) Explain in brief the safety precaution observed during handling of compressed air / gas. **07**
- (b) A company is manufacturing 40,000 components per month by employing 50 workers in 8 hour shift. The company gets additional order from government to supply additional 5000 components. The management decides to employ additional workers. What will be production and productivity level when the number of a additional workers employed are:
- | | | | | | |
|---|----|---|----|---|----|
| 1 | 25 | 2 | 30 | 3 | 40 |
|---|----|---|----|---|----|