

**Diploma 6th Semester Examination, 2020**

**Subject : Industrial Engineering & Management**

**Full Marks : 80**

**Subject Code : 601**

**Time : 3 Hours**

**Pass Marks:26**

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*Answer five questions in which Question No. 1 is compulsory.  
Each question carry equal marks.*

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1. Fill in the blanks/ Choose the correct answer: 8×2=16

- (i) An individual who starts, creates and manages a new business can be called \_\_\_\_\_.
- (a) a leader (b) a manager  
(c) a professional (d) an entrepreneur
- (ii) Which of the following is not a statutory welfare facility under the Factories Act, 1948?
- (a) Creche (b) Canteen  
(c) Transport (d) First-Aid Boxes
- (iii) The following is not a type of organisation structure:
- (a) Line organisation (b) Functional organisation  
(c) Line and Staff organisation (d) Flexible organisation
- (iv) The following is used to transport materials having flat bottoms:
- (a) Belt conveyer (b) Roller conveyer  
(c) Chain conveyer (d) None of these
- (v) A \_\_\_\_\_ is based on a film analysis.
- (a) SIMO chart (b) Flow process chart  
(c) String diagram (d) Operation flow chart
- (vi) Work study is also recognised as
- (a) Time study (b) Motion study  
(c) Both (a) and (b) (d) None of these
- (vii) Productivity can be increased by
- (a) increasing the output from the same input  
(b) reducing the input for the same output  
(c) Both (a) and (b)  
(d) None of the above
- (viii) Responsibility always flows from
- (a) superior to subordinate (b) subordinate to superior  
(c) Both (a) and (b) (d) None of these

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| 2. | (a) What is productivity? How does it differ from production?  | 8 |
|    | (b) Explain various types of production.   | 8 |
| 3. | (a) Define quality control. Explain the needs of quality control in industry.  | 8 |
|    | (b) Explain six sigma principle of quality control.  | 8 |
| 4. | (a) Explain Fayol's 14 Principles of Management.   | 8 |
|    | (b) What is Decision Making? Explain various steps in Decision Making.   | 8 |
| 5. | (a) Define Motivation. What is the importance of motivation?   | 8 |
|    | (b) Explain Maslow's hierarchy of needs.   | 8 |
| 6. | (a) What is Working Capital? What are the sources of Working Capitals?   | 8 |
|    | (b) Define Budget. What are the characteristics of Budget?   | 8 |
| 7. | (a) What do you understand by entrepreneurship? Explain its need under present employment and economic condition in the country. | 8 |
|    | (b) What is Small Scale Industries (SSI)? What are the steps in setting up a small scale industrial enterprise?                  | 8 |
| 8. | (a) Explain various types of plant layout?   | 8 |
|    | (b) What is ABC analysis of inventory control? Describe it in detail.  | 8 |