

## Jharkhand University of Technology, Ranchi

### 6th Semester Diploma Examination, 2022

Subject : Industrial Engg. & Management

Subject Code : 601

Time Allowed : 3 Hours

Full Marks : 80

Pass Marks : 26

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*Answer in your own words.*

*Answer five questions in which Question No. 1 is compulsory  
and answer any four from rest questions.*

*All questions carry equal marks.*

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1. Choose the correct answer:

2×8=16

- (i) Basic tool in work study is
- |                    |                   |
|--------------------|-------------------|
| (a) Graph paper    | (b) Process chart |
| (c) Planning chart | (d) stop watch    |
- (ii) For a product layout the material handling equipment must
- |   |
|---|
| (a) have full flexibility                                       |
| (b) employ conveyor belts, tracks, tractors etc.                |
| (c) be a general purpose type                                   |
| (d) be designed as special purpose for a particular application |
- (iii) Which of the following layouts is suited for mass production?
- |                           |                    |
|---------------------------|--------------------|
| (a) Process layout        | (b) Product layout |
| (c) Fixed position layout | (d) Plant layout   |
- (iv) The production cost per unit can be reduced by
- |  |  |
|--|--|
| (a) Producing more with increased inputs | (b) Producing more with the same input |
| (c) Eliminating idle time                | (d) Minimizing resource wastage        |
- (v) Frederick W. Taylor introduced a system of working known as
- |                             |                                 |
|-----------------------------|---------------------------------|
| (a) Line organization       | (b) Line and staff organization |
| (c) Functional organization | (d) Effective organization      |
- (vi) Which of the following equation is not in conformity with others?
- |  |
|--|
| (a) Organization performance × motivation = profit |
| (b) Knowledge × skill = ability                    |
| (c) Ability × motivation = performance             |
| (d) Attitude × situation = motivation              |

(vii) Percent idle time for man or machine is found by

- (a) Work sampling (b) Time study  
(c) Method study (d) Work study

(viii) Which of these is not the principle of management by Henry Fayol?

- (a) Unity of command (b) Science not a thumb rule  
(c) Authority and responsibility (d) Esprit de corps

2. (a) What are the characteristics of management? Explain any four of them. 8  
(b) With the help of a diagram explain the level of management. 8
3. (a) State the difference between Authority and Responsibility. 6  
(b) What are the '14' principles of management according to Henry Fayol? Explain briefly. 10
4. (a) Define HRM. Explain the structure of the human resource development in relation to the role of HR manager. 8  
(b) Explain the term selection. Elaborate on the process of recruitment and selection. 8
5. (a) What are the factors affecting entrepreneurship? Explain any four of them. 10  
(b) Define Training. What are the objective of training? 6
6. (a) Discuss the different form of ownership business. 8  
(b) Differentiate between product layout and process layout. 8
7. Write short notes on *any four* of the following: 4×4=16
- (a) ABC Analysis  
(b) Industrial Dispute Act  
(c) Intellectual Property Act  
(d) Functions of PPC  
(e) Joint stock company  
(f) Sole proprietorship
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