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4th Sem. / Mechanical Engineering
Sub. : Industrial Engineering

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (10x1=10)

Q.1 Productivity is the ratio of (CO1)

- a) Output and Input
- b) Input and output
- c) Production and Output
- d) None of the above

Q.2 Work study involves (CO2)

- a) Method study and labour study
- b) Method study and work measurement
- c) Wage Payment
- d) None of the above

Q.3 The symbol 'O' stands for (CO3)

- a) Inspection
- b) Storage
- c) Operation
- d) None of the above

Q.4 Square is a process chart symbol, it stands for (CO3)

- a) Operation
- b) Storage
- c) Inspection
- d) None of the above

Q.5 Ergonomics denotes (CO3)

- a) Psychology
- b) Human motion economy
- c) Economics
- d) All of these

Q.6 Which of the following is not a technique of work measurement? (CO3)

- a) Time study
- b) Method study
- c) Analytical estimating
- d) Motion time study

Q.7 An event is represented by _____ on the network diagram. (CO7)

- a) An arrow
- b) A straight line
- c) A circle
- d) A dashed line

Q.8 Which allowance is provided to the worker for the sudden stoppage of machine during operation? (CO4)

- a) Random interference allowance
- b) Rest allowance
- c) Process allowance
- d) Policy allowance

Q.9 The layout for mass production is (CO8)

- a) Product layout
- b) Process layout
- c) Functional layout
- d) None of the above

Q.10 The amount of money spent to get an item into inventory is called. (CO9)

- a) Inventory carrying cost
- b) Inventory ordering cost
- c) Inventory cost
- d) None of the above

(1)

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(2)

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SECTION-B

Note: Objective type questions. All questions are compulsory. **(10x1=10)**

- Q.11 Define work measurement. (CO2)
Q.12 What is the purpose of routing? (CO5)
Q.13 What is rest allowance? (CO6)
Q.14 Which type of production system uses process layout? (CO6)
Q.15 What is use of Therbligs. (CO3)
Q.16 Define bin card. (CO9)
Q.17 What is S.I.M.O. chart? (CO7)
Q.18 Define Ergonomics. (CO5)
Q.19 PERT stands for . (CO7)
Q.20 List any two direct incentives. (CO5)

SECTION-C

Note: Short answer type Questions. Attempt any twelve questions out of fifteen Questions. **(12x5=60)**

- Q.21 Define method study. (CO3)
Q.22 Explain Design & Arrangement of workplace. (CO3)
Q.23 Define production and productivity in brief? (CO1)
Q.24 Make a two handed process chart for assembling nut and bolt. (CO3)
Q25 Explain batch order production system. (CO6)

- Q.26 Write limitations of work study. (CO2)
Q.27 Write a short note on flow process chart of man type. (CO3)
Q.28 Name the various techniques of work measurement. (CO3)
Q.29 Write a short note on standard data. (CO7)
Q.30 Write a short note on performance rating. (CO4)
Q.31 Describe structures of stores. (CO9)
Q.32 What do you mean by indirect incentives? (CO4)
Q.33 What are the causes of low productivity? (CO1)
Q.34 Define dispatching. (CO5)
Q.35 Give advantages of good inventory control. (CO9)

SECTION-D

Note: Long answer questions. Attempt any two questions out of three Questions. **(2x10=20)**

- Q.36 Explain the objectives and procedure of work measurement. (CO4)
Q.37 Explain wages and its types in detail. (CO8)
Q.38 Write a short note on
a) Process Planning
b) Production Planning & Control (P.P.C.)