

Seat No. _____

Enrollment No. _____

THE CHARUTAR VIDYA MANDAL UNIVERSITY
MASTER OF SCIENCE(PLANT & MACHINERY VALUATION
SEMESTER 2
APRIL 2023 (REGULAR) EXAMINATION

Course Title: Principles of Machine Tools & Factory Equipments

Course Code: 201380202

Total Printed Pages : 02

Date: 19.04.2023

Time: 02.00 pm to 04.00 pm

Maximum Marks: 50

Instructions:

- Attempt all questions.
- Numbers to the right indicate full marks for each question.
- Make suitable assumptions wherever necessary.

Q.1 Answer the following multiple choice questions. **(04)**

- (I) Which One is not the material handling equipment.
- a. Over Head Crane
 - b. Fork lift
 - c. Elevator
 - d. Shaper
- (II) Form the following which one is not related with lathe machine
- a. Chuck
 - b. Taper turning
 - c. Indexing mechanism
 - d. Lead screw
- (III) From following which one is single point cutting tool



(a)



(b)



(c)



(d)

- (IV) Quick Return mechanism is used in _____
- a. Slotter Machine
 - b. Shaper Machine
 - c. Drilling machine
 - d. a & b

Q.2 Answer in brief and to the Point (3 questions of 2 marks each) **(06)**

- (I) List the constructional part of Drilling Machine

- (II) Match the followings Machine/Equipments from **A Column** to their relevant in **B column**

A	B
Lathe Machine	Roller
Milling Machine	Tail Stock
Material Handling Equipment	Accuracy & Precession
Measuring Instrument	Gear Cutting

- (III) State the major difference between Shaper Machine & Lathe Machine.

- Q.3** (a) What is the role of Valuator in the new establishment of industry. (05)
 (b) Describe the following mechanism (05)
 1. Quick Return Mechanism
 2. Indexing Mechanism

OR

- (b) State the significance of Working & Auxiliary motion in Productivity. (05)

- Q.4** (a) 1. List down the tools which is been used for Drilling Machine Operations (05)
 2. List down the tools which is been used for Milling Machine Operations

- (b) What is inspection? Describe the different stage of inspection (05)

OR

- (b) State the difference between Measuring Instrument & Measuring Gauges (05)
 And list any five Instruments.

- Q.5** (a) List the varies material handling equipment along with its suitable application (Where it can be used) (05)

- (b) State the detailed classification of material handling equipment. (05)

OR

- (b) What is the Pump? Describe with detailed classification. (05)

- Q.6** (a) What is material removal Process? List different material removal machines (05)

- (b) Discuss control parameters for machining. (05)

OR

- (b) As an Auditor what kind of things you should notice during valuation of Plant & Machinery? (05)

THE CHARUTAR VIDYA MANDAL UNIVERSITY
M.Sc.(Plant and Machinery Valuation) – SEMESTER 2
April 2023 (REGULAR) EXAMINATION

Course Title: Legal Study – I

Course Code: 201380203

Total Printed Pages :02

Date: 21/04/2023

Time:2pm to 4 pm

Maximum Marks: 50

Instructions:

- Attempt all questions.
- Numbers to the right indicate full marks for each question.
- Make suitable assumptions wherever necessary.

Q. 1 Answer the following multiple choice questions. **(04)**

- (I) A sold car by auction. It was knocked down to P who was allowed to take it away on (a) giving a cheque for the price, and (b) signing an agreement that ownership should not passed to him until the cheque was clear. The cheque was not clear; but meanwhile P had sold the car to S.
- (a) S had a good title to the car
 - (b) S did not having the good title to the car
 - (c) A has a right to recover from S
 - (d) none of the above
- (II) 'Insolvency resolution process period' means the period of 180 days beginning from the _____ and ending on 180th Day.
- (a) insolvency commencement date
 - (b) insolvency petition day
 - (c) date of default
 - (d) date of occurrence of 1st default
- (III) Which of the following activity is not prohibited the ring moratorium period?
- (a) The installation of suits
 - (b) encumbering by the corporate debtor any of its asset
 - (c) the recovery of any property by a lessor where such property is occupied by the corporate debtor
 - (d) the supply of essential goods to the corporate debtor as may be specified
- (IV) A husband and a wife, who were the only two members of a private limited company, are shot dead by the courts. Does the company also die with them?
- (a) No.
 - (b) Yes.
 - (c) No, only if either son or daughter is alive
 - (d) Yes, even if either son or daughter is alive

- Q.2** Answer in brief and to the Point (3 questions of 2 marks each) **(06)**
- (I) What you mean by foreign company?
- (II) Which is the adjudicating authority for the purpose of insolvency resolution and liquidation for corporate persons? State provisions for an appeal against order of adjudicating authority
- (III) What is 'moratorium period'?
- Q.3** (a) Explain very briefly:
Arbitration agreement, arbitral panel and its appointment, and Arbitration award. **(05)**
- (b) Explain the classification of companies based on number of members. **(05)**
- OR**
- (b) What is meant by a 'dormant company'? State its salient features. **(05)**
- Q.4** (a) State the circumstances under which a corporate debtor may be liquidated under IBC, 2016. **(05)**
- (b) All can initiate corporate insolvency resolution process? Explain in detail the process to be followed by Financial creditor. **(05)**
- OR**
- (b) What are the powers and duties of a liquidator under the IBC, 2016? **(05)**
- Q.5** (a) State the purpose for which Insolvency and Bankruptcy Code, 2016 has been passed. **(05)**
- (b) To whom shall IBC, 2016 be applicable? **(05)**
- OR**
- (b) (i) Who is corporate person? **(05)**
(ii) Who is financial service provider?
- Q.6** (a) Explain any three general rules regarding the sale by auction. **(05)**
- (b) Briefly state the content of catalogue for auction sale. **(05)**
- OR**
- (b) Write short note on auction sales under statute and by Order of the Court. **(05)**
- /paper ends/

Seat No. _____

Enrollment No. _____

THE CHARUTAR VIDYA MANDAL UNIVERSITY
M. Sc. (Plant and Machinery Valuation) – Semester II
April 2023 (Regular) Examination

Course Title: Valuation of P&M – I

Course Code: 201380204

Total Printed Page:2

Date: 25/04/2023

Time:2pm to 4 pm

Total Marks: 50

Instructions:

Attempt all questions

Numbers to the right indicates full marks for each question.

Make suitable assumptions whenever necessary

Q.1 Select the most appropriate answer:

[04]

- 1 Two major procedures in the identification and listing of machinery are _____ and _____. 01
physical-identification, macro-identification, visual-identification, micro-identification
- 2 _____: This term is used to describe those items of equipment whose value remains in the whole property or a component of the whole property that has been retired from service. 01
salvage, scrap, poor, fair
- 3 In the _____ method, the appraiser makes a comparison based on the experience gained by looking at similar properties and comparing them to new properties. 01
formula/ratio, age/life, direct dollar measurement, observation,
- 4 The sales comparison approach is most _____ when there is an _____ market providing a _____ number of sales of comparable property that can be independently verified through reliable sources. 01
active, reliable, sufficient, appropriate

Q.2 Discuss the following topics.

[06]

- 1 A. Reproduction Cost New 02
B. Depreciated Replacement Cost
- 2 A. Rolling Stock and 02
B. Foundations and Structural Supports
- 3 Elements of Comparability under Market Approach 02

Q.3 A Discuss: Residual Value, Recoverable Amount & Highest and Best Use 05

B Discuss: Macro-identification of plant and machinery 05

OR

B Discuss: In-situ Existing use, Ex-situ Existing use, In-situ Alternative use, and Ex-situ Alternative use 05

Q.4	A	Discuss: Depreciation and various methods of computing depreciation	05
	B	Discuss: Depreciation as per Income Tax Act	05
OR			
	B	Discuss: Depreciation as per The Companies Act	05
Q.5	A	Discuss: WPI indices - their uses and limitations	05
	B	Discuss: PPI indices - their uses and limitations	05
OR			
	B	Discuss: Fixed Asset Register - their compilation, uses and limitations	05
Q.6	A	Name different types of industrial buildings based on usage and based on types of structures.	05
	B	Show major components of a typical industrial building with a neat sketch.	05
OR			
	B	Discuss: Plant and machinery normally valued with the premises	05

/paper ends/

Seat No. _____

Enrollment No. _____

THE CHARUTAR VIDYA MANDAL UNIVERSITY
M.Sc.(Plant and Machinery Valuation) – SEMESTER 2
APRIL 2023 (REGULAR) EXAMINATION

Course Title: Valuation of Plant and Machinery - II

Course Code: 201380205

Total Printed Pages : 02

Date: 27/04/2023

Time: 2:00 pm to 4:00 pm

Maximum Marks: 50

Instructions:

- Attempt all questions.
- Numbers to the right indicate full marks for each question.
- Make suitable assumptions wherever necessary.

- Q.1** Answer the following multiple choice questions. **(04)**
- (I) Function of air pre heater is
- (a) To heat water supplied to the boiler
 - (b) To heat water coming out of condenser
 - (c) To heat air supplied to boiler
 - (d) To heat air going out of the boiler
- (II) Pressure at the eye of the impeller in a centrifugal pump is
- (a) More than atmospheric pressure
 - (b) Less than atmospheric pressure
 - (c) Equal to atmospheric pressure
 - (d) Equal to absolute vacuum
- (III) Increase of pressure ratio in a reciprocating air compressor leads to
- (a) Increase in work of compression and decrease in volumetric efficiency
 - (b) Increase in work of compression and increase in volumetric efficiency
 - (c) Decrease in work of compression and decrease in volumetric efficiency
 - (d) Decrease in work of compression and increase in volumetric efficiency
- (IV) Which of the following is not a part of VCR system
- (a) Compressor
 - (b) Condenser
 - (c) Boiler
 - (d) Evaporator
- Q.2** Answer in brief and to the Point (3 questions of 2 marks each) **(06)**
- (I) Write four applications of compressed air.
- (II) Differentiate between water tube and fire tube boiler.
- (III) Explain the term 1 TON of refrigeration.
- Q.3** (a) Differentiate between boiler mountings and accessories. With help of neat sketch, explain working of the following components related to a steam generator: **(05)**
- i. Water level indicator
 - ii. Fusible plug
- (b) What is meant by priming in relation to a pump? Also explain the reason for need of priming in a centrifugal pump. **(05)**

OR

- (b) With help of a neat sketch, explain working of a gear pump. (05)
- Q.4** (a) Draw p-V diagram for reciprocating air compressor with clearance volume. Also explain of rise of compression ratio on volumetric efficiency of the compressor, using the same figure. (05)
- (b) With help of neat sketch, explain multi stage and multi cylinder arrangement related to reciprocating air compressor. (05)
- OR**
- (b) Explain the working of a one way pressure differential valve. (05)
- Q.5** (a) Define refrigeration. Draw the line diagram of VCR system showing its main components and explain working of the same. (05)
- (b) Discuss: General layout of the transmission system (05)
- OR**
- (b) Discuss: Various electrical equipment used in industrial electrical installation with description (05)
- Q.6** (a) Discuss: Case study of Lancashire Boiler (05)
- (b) List the drawings or records to be sent to Chief Elect Inspector before approval. (05)
- OR**
- (b) List the documents which the electrical inspector would check during annual inspection. (05)

/paper ends/