Seat No.	Enrolment No.
TH	E CHARUTAR VIDYA MANDAL UNIVERSITY M.Sc.(Plant and Machinery Valuation) – SEMESTER 2 SUMMER (REGULAR) 2022 EXAMINATION
Course	Title: Legal Study I
Course	Code: 101380203
Total P	rinted Pages :03
Date: 05/	. •
NuMa	tempt all questions. umbers to the right indicate full marks for each question. ake suitable assumptions wherever necessary.
Q. 1 (1)	Answer the following multiple choice questions. (12 In which of the following circumstance the members of a company can be made liable for the liability of the company
	a. In case of diversion of fundsb. In case of tax evasionc. In case of penalties imposed by a courtd. In case of penalties imposed by the government
(2)	The capital of a company is divided into parts, called a. Shares b. Borrowings c. Secured Loans d. Bonds
(3)	What is the maximum number of members of a private limited company? a. 2 b. 200 c. 7 d. 700
(4)	 Which of the following is an adjudicating authority under IBC? a. Debt Recovery Appellate Tribunal b. The Supreme Court of India c. National Company Law Tribunal d. National Company Law Commission
(5)	During the moratorium period, which of the following act shall be prohibited?

- a. Transfer of assets by corporate debtor b. The supply of essential goods and services to the corporate debtor
- c. loss-making activity of the corporate debtor
- d. a decision of committee of creditor to declare liquidation of the corporate debtor

- (6) The committee of creditor is constituted by
 - a. Resolution Professionals
 - b. Adjudicating Authority
 - c. Insolvency and Bankruptcy Board of India
 - d. Interim Resolution Professional
- (7) The proceeds from the sale of the liquidation of assets shall be distributed lastly to
 - a. Equity Shareholders
 - b. Preference Shareholders
 - c. Operational Creditor
 - d. the Central Government
- (8) How long is the insolvency resolution process period?
 - a. 180 days from the insolvency commencement date
 - b. 180 days from the liquidation commencement date
 - c. 180 days from date of approval of resolution plan by adjudicating authority
 - d. 180 days from date of appointment of resolution professionals
- (9) Every appeal shall be filed within how many days before the National Company Law Applet Tribunal.
 - a. 30 days
 - b. 45 days
 - c. 45 days in case of corporate person and 30 days in case of partnership firm
 - d. maximum of 45 days if not filed within 30 days
- (10) Where the auction sale is without reserve price, the goods will be sold to
 - a. the highest bidder.
 - b. the highest bidder only if bid is equal to the real value of the goods.
 - c. the highest bidder only there are minimum three bids.
 - d. The highest bidder only if seller accept the bid
- (11) Whether goods are destroyed or damaged before the completion of auction sale, the loss will fall on
 - a. the highest bidder.
 - b. the seller.
 - c. the auctioneer.
 - d. the seller only if seller had participated in auction himself.
- (12) Any bidder may retract his bid at auction sale
 - a. if he is the only bidder
 - b. if the seller has not signed the contract
 - c. until acceptance
 - d. if the auctioneer have not signed the contract.
- Q.2 Attempt any eight of the following.

(16)

- (1) What do you mean by 'debt' and 'default' under IBC, 2016?
- (2) Who cannot be financial creditors under IBC. 2016?
- (3) What do you mean by Financial Service Provider?
- (4) Who is operational creditor under IBC, 2016?

	(5)	What do you mean by reserved price under auction sale?		
	 (6) Briefly state features of Auction Sale. (7) Can a company be a witness in the court of law? (8) Does the company ceased to exist because all the members are dead due to war? Why? 			
	(9)	How does a company is distinguished from a LLP with respect to maximum number of members and liability?		
	(10)	Explain very briefly - composition of arbitral tribunal		
Q. 3		What are the objectives of enactment of Insolvency and Bankruptcy Code, 2016? \mathbf{OR}	(08)	
Q.3		What shall comprise liquidation estate and what shall not be included in liquidation estate?	(08)	
Q. 4		What are the rights and duties of Auctioneer?	(08)	
		OR		
Q. 4		Write short notes on the following:	(08)	
		(a) Pretended bidding in Auction sale(b) Right to bid(c) Implied Warranties in Auction sale(d) Knock Out		
Q. 5		Write Short note on the following :	(08)	
		a) One person Company		
		b) 'Nidhi' c) Foreign Company		
		d) Dormant Company		
		OR		
Q. 5		Discuss the characteristics of a company.	(08)	
Q. 6		What are the advantages of arbitration over traditional litigation? What is 'arbitral award on agreed terms'? OR	(08)	
Q. 6		Mention grounds on which appointment of arbitrator can be challenged. Narrate the matters that cannot be referred for arbitration.	(08)	

Seat No.	
Deat 110.	

THE CHARUTAR VIDYA MANDAL UNIVERSITY

M.Sc. (PLANT & MACHINERY VALUATION)— SEMESTER 2 SUMMER (REGULAR) 2022 EXAMINATION

Course '	Fitle: Principles of	Machine Tools and	Factory Equipment
Course	Code: 101380202		
Total Pr	inted Pages: 02		
Date: 04/	_	Time: 10.30 am to 12.30	pm Maximum Marks: 60
Instruction			
• Nu	empt all questions. mbers to the right indicate fi ke suitable assumptions who		
Q. 1	Answer the following	g multiple choice question	ns. (12
(1)	Which of the following	ng is/are general purpose	machine(s)?
	a) Lathe	,	Drilling machine
	c) Shaper	,	All of the above
(2)		ng is not a cutting parame	
	a) Cutting speed	·	Feed
	c) Depth of cut	•	Height of the table
(3)		does a shaper machine g	
	a) Radial	•	Uneven
440	c) Flat	,	None of the above
(4)		ork piece is supported be	
	 a) Headstock an 	<i>'</i>	Ram and lever
	c) Bed and Tool	d)	Drive mechanism and Feed
			mechanism
(5)		nachine issuita	ble for using arbor mounting
	milling cutters.	1-1	TT: -1-1
	a) Not	,	Highly
(6)	c) Somewhat		perfect
(6)			direct measuring instrument? Micrometers
	a) Scale		
/ \	c) Venire calipe		Caliper
(7)			equipment is used to move
		d path between specific p b)	Crane
	a) Conveyor		Hoist
(0)	c) Forklift truck	kwise rotation of the whe	
(8)		novement of b)	Downward movement of
	controlled co	,	controlled component
	c) Movement a	-	A rectilinear movement right
		oing of chuck)	to the observer
(0)	Which of the following	ing pump is not positive of	
(9)	a) Piston Pump	h)	Gear Pump
	c) Propeller Pur	•	Bucket Pump

	(10)	Centrifugal compressor is suitable for producing			
		a) High pressure b) Medium pressure			
		c) Low pressure d) All of the above			
	(11)	Transfer machine is appropriate for			
		a) Short product cycle b) Low volume, more variety			
		c) High Volume, less variety d) Flexible product design			
	(12)	Which milling tool is shaped like a piece of pipe with inside cutting edges?			
		a) Face mill cutter b) Dovetail cutter			
		c) End mill cutter d) Hollow Mill Cutter			
Q.2		Attempt any eight of the following.	(16)		
	(1)	Write short note on power press.			
	(2)	Write in brief about collet.			
	(3)	What is the function of reamer?			
	(4)	What are the functions of flutes on a twist drill?			
	(5)	How do you employ combination set to measure the following?			
		a) Height			
		b) Centre of a bar stock			
	(6)	Distinguish between a measuring instrument and gauge.			
	(7)	Write uses of compressed air.			
	(8)	What is compressor? Why it is considered as reversed heat engine?			
	(9)	Explain the phenomenon involved in 'wringing' of slip gauges.			
	(10)	What is the difference between engine lathe and turret lathe?			
Q. 3		Explain nomenclature of twist drill with neat sketch.			
		OR	(08)		
Q.3		* *			
		ii. Differentiate between single-point and multipoint cutting tool.	(08)		
Q. 4	Q. 4 What are the common types of boring machines available? Explain flo				
		type horizontal boring machine with sketch			
0.4		OR	(00)		
Q. 4		How grinding wheel is specified? Explain in detail.	(08)		
Q. 5		What is an indexing head? Give explanation regarding the construction of	(08)		
		it.			
o =		OR	(00)		
Q. 5		With help of neat diagram explain the following setup on centre lathe:	(08)		
		i. Taper turning on long job using attachment			
0 (ii. External keyway cutting on shaft	(00)		
Q. 6		Define Pump. Give classification of pump.	(08)		
0 (OR What are the features of a good material handling system? Give detailed	(00)		
Q. 6		What are the features of a good material handling system? Give detailed	(08)		
		classification of material handling equipment.			

Seat No	Enrollment No.
	THE CHARUTAR VIDYA MANDAL UNIVERSITY M. Sc. (Plant and Machinery Valuation) – Semester II Summer (Regular) 2022 Examination
Course Tit	le: Valuation of P&M – I
	de: 101380204
Total Print	· · · · · · · · · · · · · · · · · · ·
Date: 06/0	
	comment of comments and comments are comments and comments and comments are comments and comments are comments
Q.1 Sel	lect the most appropriate answer:
1	is defined as the amount a particular purchaser agrees to pay and a particular seller agrees to accept under the circumstances surrounding their transaction.
	Keywords: cost, worth, price, value
2	value in place is an opinion of the gross amount, expressed in terms of money, that typically could be realized from a properly advertised transaction, with the seller being compelled to sell, as of a specific date, for a failed, non-operating facility, assuming that the entire facility is sold intact.
	Keywords: fair market, forced liquidation, liquidation, orderly liquidation
3	is a macro identification.
	Keywords: physical size, plant layout, capacity, serial number
4	cost can also be estimated when an appraisal is to be compared with other value indicators developed by trending.
	Keywords: replacement, reproduction, production, acquisition
5	The costs of similar plants or pieces of equipment of different sizes vary with the size raised to some power is method.
10000	Keywords: cost to capacity, detail, trending, engineering
6	The difference in value between an existing old property and a hypothetical new property taken as a standard of comparison is called
! I	Keywords: accounting depreciation, appraisal depreciation, obsolescence, loss in value
7	Which of the following is not cause of Depreciation?
	Keywords: physical deterioration, functional obsolescence, reproduction cost economic obsolescence
8	is the number of years that have elapsed since a property was originally
!	built or placed in service.
	Keywords: age, chronological age, effective age, useful life
9	A primary use of the is to deflate revenue streams in order to measure real

		growth in output.	
		Keywords: PPI, CPI, IIP, WPI	
	10	A primary use of the is to adjust income and expenditure streams for changes	
		in the cost of living.	
	i	Keywords: PPI, CPI, IIP, WPI	
	11	Fixed Asset Register is for purpose.	
		Keywords: insurance, accounting, valuation, management	
	12	WPI is compiled by	
		Keywords: Ministry of Finance, Ministry of Corporate Affairs, Reserve Bank of India,	
		Ministry of Commerce & Industry	
Q.2	Disc	uss the following topics. (Answer Any Eight)	16
	1	Define: Salvage Value	
	2	Define: Scrap Value	
	3	Define: Effective Age	
	· 4	Write minimum eight examples of Direct Cost	
	5	Write minimum eight examples of Indirect Cost	
	6	Strengths of the detail method	
	7	Limitation of trending method	
	8	Producer Price Index	
	9	List out plant and machinery normally valued with the premises	
	10	Name major components of a typical industrial complex.	
Q.3		Discuss: Macro and Micro identification for valuation of plant & machinery OR	80
		Discuss: Classes of machinery and equipment	
Q.4		Depreciation under The Companies Act	08
	1	OR	
	į	Discuss methods of Depreciation with example.	
		1. Straight Line Method and	
.,		2. Written Down Value Method	
Q.5	i	RBI indices - their uses and limitations	08
		OR	
	******	Plant records and asset registers - their compilation, uses and limitations	

Name major structural components of an industrial building. Draw neat sketches of any two types of shallow footings.

80

OR

What are the different planning regulations for industrial buildings as per the Development Control Regulations?

Seat I	No	· · · · · · · · · · · · · · · · · · ·	Enrollment No	
		M. Sc. (Plant and Macl	DYA MANDAL UNIVERSITY hinery Valuation) – Semester II alar) 2022 Examination	
Cour	oo Titl	e: Valuation of P&M – II		
		e: valuation of F&WI – II e: 101380205		
		l Page: 03		
	07/05/		10:30 to 12:30	Total Marks: 60
	uctions	auestions		
	·	the right indicates full marks for each que	estion.	
		le assumptions whenever necessary		
				10
Q.1	Sele	ect the most appropriate answer:		12
	1	During change of phase process:		
		(a) Temperature remains constant		
		(b) Pressure remains constant		
		(c) Enthalpy remains constant		
		(d) Energy remains constant		
	2	Unit of pressure is:		
		(a) Bar		
	1	(b) Pascal		
		(c) Atm(d) All of the above		
	3	· ·	mnarotura	
	3	With increase in pressure, saturation ter (a) Decreases	imperature.	
		(b) Increases		
		(c) Remains constant		
		(d) May increase or decrease		
	4	A sample whose temperature is more th	nan saturation temperature is called:	
	•	(a) Sub cooled liquid	r	
		(b) Wet		
		(c) Dry	•	
		(d) Superheated		
	5	Following is used to increase efficiency	of a boiler:	
		(a) Super-heater		
		(b) Fire tubes		
		(c) Water tubes		

(d) Air per-heater

(a) Latent heat

6

Energy interaction that results in change of temperature is called

		(b) Sensible heat	
1		(c) Work	
1		(d) Internal energy	
	7	A pump handles:	
1		(a) Gases	
	1	(b) Vapor	
	1	(c) Liquid	
1		(d) Mixture of liquid and vapor	
	8	Selection of pump depends on:	
4		(a) Capacity of pump	
1		(b) No of pump units	
:		(c) Discharge condition	
!		(d) All of the above	
	9	Priming is required in:	
	1	(a) Centrifugal pump	
		(b) Reciprocating pump	
		(c) Gear pump	
•		(d) All of the above	
1	10	Air conditioning deals with:	
	1	(a) Temperature of air	
		(b) Moisture content of air	
:		(c) Velocity of air	
		(d) All of the above	
	11 ,	COP of a refrigeration system is generally:	
1		(a) Greater than one	
		(b) Less than one	
!		(c) Equal to one	
		(d) Between one and zero	
	12	Which of the following is not a part of VCR system:	
		(a) Compressor	
		(b) Evaporator	
		(c) Condenser	
		(d) Pump	
Q.2	Disc	cuss the following topics. (Answer Any Eight)	16
	1	Differentiate between water tube and fire tube boiler.	
1	2	Differentiate between sensible and latent heat.	
	3	Define saturation temperature.	
	4	Explain the function of air vessel in a reciprocating pump.	
	5	Explain the need for priming of a pump.	
	6	Give applications of refrigeration.	

	• 7	Enlist different commercial refrigerants used in refrigeration system.	
	8	Why and when a lift should be inspected?	
	9	Name the unit of Force, Power, Current and Voltage	
	10	Name the electrical installation used in industrial plant	
Q.3	1	Differentiate between boiler mountings and accessories. Give two examples of each	04
	2	Explain working of the following:	04
		(a) Water level indicator	
		(b) Feed check valve	
		OR	
Q.3.		Explain working of a Babcock and Wilcox boiler and also give detailed classification of the same.	08
Q.4		Explain working of a centrifugal pump.	08
		OR	
Q.4		Explain working of a reciprocating pump.	08
Q.5		Define refrigeration. Draw a line diagram for VCR system and write expression for COP for the same.	08
		OR	
Q.5	1	Differentiate between a VCR and VAR system	04
	2	Draw a line diagram for a VAR system	04
Q.6	1	List the drawings to be sent to Chief Elect Inspector before approval.	04
	2	List the documents which the electrical inspector would check during annual inspection. OR	04
Q.6.		Discuss: Case study of Lancashire Boiler	08
		/paper ends/	

Seat No.		:	Enrollment No	
	· · · · · · · · · · · · · · · · · · ·	THE CHARUTAR VIDYA M. Sc. (Plant and Machinery Summer (Regular) 2	Valuation) – Semester II	
Course '	Title: Industrial P	rocesses		
	Code: 101380207	en de la companya de	and the same of	
	inted Page: 3 /05/2022	Time: 10:30	to 12:30	Total Marks: 60
Instruct Attempt Number	iions: all questions s to the right indica	ates full marks for each questi whenever necessary		Total Marks, 00
Q.1 S	Select the most a	ppropriate answer:		12
	1 Most suitable	plant layout for manufacturi	ng of ship is	
	Keywords: F	ixed Position Layout, Process	Layout, Product Layout, Hybrid L	ayout
!	2 Most suitable	plant layout for manufacturing	ng of parts of automobile is	
	Kevwords: F	ixed Position Lavout. Process	Layout, Product Layout, Hybrid L	avout
	·	plant layout for manufacturi		,
				avout
· · · · · · · · · · · · · · · · · · ·			Layout, Product Layout, Hybrid L	ayout
	4 Process layou	it is recommended for	production.	
	Keywords: B	atch, Mass, Job, Continues		
	5 Rated capacit	y of turbine measured in	•	
	Keywords: K	VA, MW, kV, mWhr		
	6 Vulcanization	process is involved in	industry.	
	Keywords: R	ubber, Metal, Pharma, Paper		
	7 Pasteurization	n process is involved in	industry.	
		ement, Ceramic, Dairy, Sugar		
			industry	
		nachine is used in	_ mausu y.	
	Keywords: C	ement, Oil, Plastic, Sugar		
	9 Curing machi	ne is used in indu	ustry.	

		Reywords: Tire, Steel, Textile, Cement	
	10	Raw Meal Silo is used in industry.	
		Keywords: Rubber, Metal, Cement, Paper	
	11	production method involves a continuous production of standardized products on large scale.	
		Keywords: Batch, Mass, Job, Continues	
	12	production method is generally like job production except the quality of production.	
	; i	Keywords: Batch, Mass, Tailor-made, Continues	
		en de la company de la comp La company de la company d	
Q.2	Disc	cuss the following topics. (Answer Any Eight)	16
	: 1	Factor affecting selection of site for thermal power plant	
	2	Factor affecting selection of site for cement plant	
- 10	3	Factor affecting selection of site for dairy unit	
	4	Availability of Raw Materials as a one of the factors for selection of plant location	
	5	Availability of Government Policy as a one of the factors for selection of plant location	
	6	List out minimum ten core machinery used in plastic industry.	
	. 7	List out minimum ten core machinery used in dairy Unit	
	8	Function of carding machine & combing machine in Spinning Plant	
	9	Function of Kiln in Cement Plant	
	10	Name all raw material used in Ceramic Plant	
Q.3	1	Comparison between Rural Site, Suburban Site and Urban Site for selection of plant location	04
	2	Objectives of Plant Layout	04
	:	OR	
		Describe factors affecting selection of Plant Layout.	08
Q.4		List out minimum ten core machinery used in Spinning Unit with its important technical specification.	08
	i	OR	
		List out minimum ten core machinery used in Ginning Unit with its important technical specification.	

page 2f3

Q.5	List out minimum ten core machinery used in Sugar Plant with its important technical specification.	08
	OR	
:	List out minimum ten core machinery used in Tire Plant with its important technical specification.	
Q.6	List out minimum ten core machinery used in Fresh Paper Plant with its important technical specification.	08
	OR	
	List out minimum ten core machinery used in Steel Plant with its process description	