

DBB-003-001538

Seat No.

B. Sc. (Sem. V) (CBCS) Examination

May/June - 2015

I. C. - 502

(Heavy & Fine Chemicals-1 and Management)

Faculty Code: 003

Subject Code: 001538

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Time : $2\frac{1}{2}$ Hours]	[Total Marks : 70

- **Instructions:**(1) All the questions are compulsory.
 - (2) Figures to the right indicate maximum marks.
 - (3) Draw labelled diagram wherever necessary.
 - (4) Assume suitable data.
 - (5) Question 1 carries 20 marks and Question 2 & 3 each carries 25 marks.

1 Multiple	Choice	Questions.
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- (1) _____ is a detailed list of movable items which are necessary to manufacture a product.
 - (a) Inventory
- (c) Repair cost
- (b) Operational accuracy
- (d) Production scrap
- (2) _____ is a concept used in macroeconomics, national accounts and financial economics.
 - (a) Capital formation
- (c) Product

(b) Supplies

(d) Production scrap

(3)	are recruitment consists of transfers and						
	promotion of employees.						
	(a)	Internal sources	(c)	External sources			
	(b)	(a) & (c) both	(d)	None of these			
(4)		is horizontal shifting.					
	(a)	Promotion	(c)	(a) and (b) both			
	(b)	Transfer	(d)	None of these			
(5)		stage is a part of	of pro	duct life cycle.			
	(a)	Maturity	(c)	Market			
	(b)	Supplies	(d)	Services			
(6)		is a technique of locating different machines					
	and plant services within the factory.						
	(a)	Plant location	(c)	Plant layout			
	(b)	Plant maintenance	(d)	Plant regeneration			
(7)		is a type of plant maintenance.					
	(a)	Lighting	(c)	Premises			
	(b)	Break down	(d)	All of these			
(8)	Which one of the following is not the function of						
	mar	nagement?					
	(a)	Directing	(c)	Processing			
	(b)	Organizing	(d)	Controlling			

(9)	Uni	ty of command brings		in organization.		
	(a)	Decentralization	(c)	Harmony		
	(b)	Chaos	(d)	All of these		
(10)	Whi	ch one is not the type of pl	lanni	ng from the viewpoint		
	of b	usiness?				
	(a) Planning for development					
	(b)	Special planning				
	(c)	Planning for current bu	ısine	ss		
	(d)	Long term planning				
(11)	Whi	ch one of the following	are i	not characteristics of		
	sour	nd organization?				
	(a) Harmonious grouping					
	(b) Better communication					
	(c) Reasonable span of control					
	(d) Chaos					
(12)	Whi	ch one of the following	ng is	advantage of line		
	orga	anization ?				
	(a)	Orderly communication	(c)	Deficiency of safety		
	(b)	Chaos	(d)	All of these		
(13)	Whi	ch is/are techniques of	direc	tion?		
	(a)	Autocratic technique	(c)	Free rein technique		
	(b)	Democratic technique	(d)	All of these		

(14)	Type of Staffing Process includes					
	(a)	External Recruitment	(c)	Both (a) & (b)		
	(b)	Internal Recruitment	(d)	None of these		
(15)	Phenol is manufactured by which process?					
	(a)	Cumene Process				
	(c)	Sulfonation Process				
	(b)	Rasching Process				
	(d)	All of these				
(16)	Na_2	SO ₄ salt is used in		_ .		
	(a)	Paper industries	(c)	Both (a) and (b)		
	(b)	Dying industries	(d)	None of these		
(17)	Whi	ich of the following is us	se of	Iodine ?		
	(a) For disinfection					
	(b) In Photographic Industries					
	(c) In Pharmaceutical Industries					
	(d)	All of these				
(18)	Whi	ich chemical is manufactu	red f	from spent caustic lye		
	of d	etergent industry?				
	(a)	Phenol	(c)	Acetylene		
	(b)	Glycerin	(d)	Melamine		

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	(19)	Which process is more suitable for manufacturing of Ammonium Nitrate?				
		(a)	Prilling Method			
		(b)	Stengel Method			
		(c)	Bamag Process			
		(d)	Crystallization Process	8		
	(20)	Whi	ch temperature is suit	able ir	n electric arc furnac	e
		process for manufacturing of H ₃ PO ₄ ?				
		(a)	500 - 550°C	(c)	500 - 550°F	
		(b)	1400 - 1450°C	(d)	1400 - 1450°F	
2	(a)	Answer any Three out of Six questions:			6	
(1)			1) Give flow diagram of Fischer-Tropsch process.			
		(2)	2) Give reaction and use of ammonium phosphate.			
		(3)) Enlist various uses of Nitric Acid.			
		(4) Give the definition of capital formation.				
		(5) Define: (a) Planning and (b) Staffing.(6) Define: (a) Unity of command and (b) Decision making.Answer any Three out of Six questions:				
					aking.	
	(b)				9	
(1) Describe inventory classification.			tion.			
	(2) Give a labelled diagram of Ammonia by Bosch-				1-	
		Harber process.				
		(3) Explain properties and uses of glycerol.				
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- (4) Give properties and uses of Formaldehyde.
- (5) Explain characteristics of management in detail.
- (6) Explain advantages and disadvantages of planning.
- (c) Answer any Two out of Five questions.

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- (1) Write any case study for product success.
- (2) Explain manufacturing of Nitric Acid with the help of a flow diagram.
- (3) Write a detailed note on manufacturing of Br₂.
- (4) What is meant by staffing? Explain in very brief.
- (5) Explain roll of middle level management in organization.
- 3 (a) Answer any Three out of Six questions.

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- (1) Enlist various properties of Acetone.
- (2) Enlist various uses of Ammonia.
- (3) Draw labelled diagram of Diaphragmcell.
- (4) Give the importance of maintenance of plant in short.
- (5) Explain any six functions of management in detail.
- (6) Enlist step or procedure of decision making.
- (b) Answer any Three out of Six questions.

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- (1) Give block diagram for Boric acid isolation from sea water.
- (2) Draw labeled diagram of manufacturing of Phosphoric acid.

- (3) Give the classification of product on the basis of consumer's intentions.
- (4) Explain Break even analysis.
- (5) Explain types of planning from the viewpoint of time.
- (6) Explain phases of planning.
- (c) Answer any Two out of Five questions: 10
 - (1) Describe product life cycle.
 - (2) Explain manufacturing of NaCl from sea water.
 - (3) Give preparation, properties and uses of Zeolites.
 - (4) Explain types of decision making with examples.
 - (5) Explain principles of organization.