2019

Major 3rd Semester Examination

INDUSTRIAL CHEMISTRY

Paper - SEC 1-T

Full Marks: 40 Time: 2 Hours

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

(Chemical Process ECON and Entrepreneurship)

Answer as directed.

Group-A

1. Answer *any five* questions : $2 \times 5 = 10$

(a) What do you mean by resource management?

2

(b) What are financial ratios?

(c) What are the characteristics of an entrepreneur?

[Turn ()ver]

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(d) Define the term "Creativity" and "Innovation".		
		2
(e	Explain the term "after sales and service".	2
(f) What do you mean by Product Planning?	2
(g) Explain the term "Partnership Act".	2
(h) Define the term "Breakeven point"?	2
	Group-B	
2. A	nswer <i>any four</i> questions : $5\times4=7$	20
(a)) (i) What is the difference of QA and QC?	
	(ii) What are the seven quality management principles?	
(b)	Explain the term "sickness" in small scanindustries.	ale 5
(c)	What do you mean by profitability analysis?	5
(d)	Explain different aspects of marketing.	5
(e)	What is capital investment cost ?	5
(f)	Why packaging is so important?	5

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Group-C

3. Answer any one question: $10 \times 1 = 10$	0		
(a) (i) What are the various factors associated win cost estimation of a project?	th		
(ii) Write down the criteria for econom feasibility of a project. 5+			
(b) (i) Explain the term "problem solving tools"	(•		
(ii) Explain with example the term SWC techniques.			
(Basic Computer Programming in C and its applications in Chemistry)			
Answer all questions.			
1. Answer any five questions from the below: $2 \times 5 = 10$			
(a) What is Input and Output device?	2		
(b) What do you mean by System software?	2		
(c) What is algorithm?	2		
(d) What is the function of operating system?	2		
[Turn ()ve	er]		

(e)) What do you mean by preprocessor directive	?
		2
(f)	What is Bohr radious?	2
(g)	Differentiate between looping and branching?	
(h)	What is conditional operator in C language? 2	<u>}</u>
	Group-B	
2. An	swer <i>any four</i> questions : $5\times4=20$	ř
(a)	What is a compiler? List three difference between Compiler and Interpreter.	
(b)	Differentiate between application software and system software.	
(c)	Distinguish between while and for loop with flow chart and example.	Ē
(d)	What are the applications of Programming Languages?	63
(e)	What is array? Write down the characteristic of an array. 2+3	\$ \$

Group-C

3. Answer any one question:

 $10 \times 1 = 10$

- (a) Draw the basic block diagram of a computer system and explain the different parts of a computer.
- (b) Draw a flow chart and write an algorithm to find the highest among three numbers.

Intellectual Property Rights (IPR)

Answer all questions.

1. Answer *any five* questions : $5\times 2=10$ (Choose the correct option)

- (a) Intellectual Property Rights (IPR) protect the information and ideas that are of: 2
 - (i) Ethical value (ii) Commercial value
 - (iii) Social value (iv) Moral value

[Turn Over]

(b)	The term 'Intellectual Prop	erty Rights' cover	
		#	2
	(i) Copyrights	(ii) Know-how	
	(iii) Trade secret	(iv) All of the abo	ove
(c)	The following can be prote	ected:	2
ii.	(i) Machine	(ii) Process	
	(iii) Composition of matter	(iv) All of the abo	ove
(d)	Design does not include:		2
	(i) feature and shape	N	
	(ii) composition of lines or colours		
	(iii) mode of principle of c	onstruction	
	(iv) none of the above	ÿ.	
(e)	The term 'WIPO' stands fo	ř:	2
	(i) World Investment Policy	Organization	
	(ii) World Intellectual prope	erty Organization	
	(iii) Wild life Investigat	tion and Polici	ng
	Organization		
	(iv) World Institute for Pre-	vention of Organiz	ed

crime.

- (f) A new way to process milk so that there is no fat in any cheese made from it.
 - (i) Copy rights
 - (ii) Trade mark
 - (iii) Patent
 - (iv) Industrial design
 - (g) Why an Invention should be patented 2
 - (i) It gives protection to a patentable invention
 - (ii) It gives legal recognition to the invention.
 - (h) Which of the principle is applicable to trade marks
 - (i) A trade mark should be distinctive
 - (ii) A trade mark should be capable of distinguishing goods or services.
 - (iii) A trade mark should not cause confusion with previous trade marks.
 - (iv) A trade mark should not be deceptive.

2.	Ans	swer any four questions:	5×4=20
	(a)	(i) What is patent?	
		(ii) What are different types of patent	? 2+3
	(b)	(i) What is Geographical Indication?	
		(ii) Give six Indian examples of Ge	ographical
		Indications.	2+3
	(c)	Write short notes on	
		(i) Trade marks	5
	(d)	Write short notes on	
		(i) GATT (ii) WTO	21/2+1/2
	(e)	(i) What are the importance of in property rights?	ntellectual
		(ii) What is Industrial Design ? V	Vhy it is
		important ?	2+3=5
	(f)	(i) What is trade secret ?	
		(ii) What are the importance of trade	secrets?
			2+3=5
3.	Ans	swer any one question:	10×1=10
	(a)	What are the different legislations co-	vering the

Intellectual Property Rights in India?

(Geographical Indications).

Discuss the steps for filling application of GI

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10

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