

RY-003-001647

Seat No.

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

March - 2019

IC - 602 : Heavy & Fine Chemicals - 2 & Analytical Chemistry

Faculty Code: 003

	S	Subject Code: 001647	
Time: 2	$2\frac{1}{2}$ Hours]	[Total Marks :	70
Instruct	(1) (2) (3) (4) (5) (6)	All the questions are compulsory. Figures to the right indicate maximum man Draw labeled diagram wherever necessary Assume suitable data. Question-1 carries 20 marks. Question-2 & 3 carry 25 marks each.	
1 Ans	wer the foll	owing questions :	20
(1)	Triphenyl	phosphine is used as	
(2)	-	chloride can be used as paint removing True/False?	
(3)	Give full f	form of THF.	
(4)	1,4-dioxane	e can be produced from diethylene glycol	

- (5) Write raw materials used for production of KBr.
- (6) By which process perchloric acid can be synthesized?
- (7) Sodium bicarbonate is also known as _____
- (8) Washing soda is manufactured via Haber process. True/False?
- (9) Cold fat extraction is also known as _____
- (10) Give one example of anticaking agent.
- (11) Give full form of GC.

	(12)	mai	cator electrode is made up of	
	(13)	Ligh	at source used in polarimeter is	
	(14)		mina can be used as stationary phase in matography. True/False?	
	(15)	Part	ition ratio is also called as	
	(16)		le splitting of the sample, of the sample t not be changed.	
	(17)	Give	e full form of FID.	
	(18)		ch spectroscopy is used to identify functional group ent in compound?	
	(19)	By	which detector sample destruction takes place?	
	(20)	NMI	R is stands for what?	
2	(A)	Ans	wer any three:	6
		(1)	What is R _f value?	
		(2)	Write a note on Triethyl phosphate.	
		(3)	Give composition of Fehling solutions.	
		(4)	Write principle of conductometric titration.	
		(5)	Discuss sample injection system in chromatography in brief.	
		(6)	Elaborate the word 'Partition coefficient'.	
	(B)	Ans	wer any three:	9
		(1)	Give uses of Nujol.	
		(2)	Discuss types of emulsion.	
		(3)	Give difference between perfumes and flavors.	
		(4)	Explain graphical representations of conductometric titration method.	
		(5)	Write a brief note on sampling methodology.	
		(6)	Discuss carrier gas selection in chromatography in brief.	

2

[Contd....

RY-003-001647]

(C)	Ans	wer any two:	10
	(1)	Discuss manufacturing of chloroform with neat diagram.	
	(2)	Explain production of mono sodium glutamate with block diagram.	
	(3)	Explain classification of surfactants in detail.	
	(4)	Explain UV spectroscopy with neat diagram.	
	(5)	Write a detailed note on thermal conductivity detector with diagram.	
(A)	Ans	wer any three:	6
	(1)	Draw only diagram for manufacturing of acetaldehyde.	
	(2)	Write a brief note on DMF.	
	(3)	What are intentional food additives?	
	(4)	Write principle of Polarimetry analysis.	
	(5)	Enlist classifications of chromatography.	
	(6)	Write a brief note on stationary phase selection in chromatography.	
(B)	Ans	ewer any three:	9
(B)	Ans (1)	wer any three : Write a brief note on DMSO.	9
(B)		·	9
(B)	(1)	Write a brief note on DMSO.	9
(B)	(1) (2)	Write a brief note on DMSO. Write industrial uses of food additives.	9
(B)	(1)(2)(3)	Write a brief note on DMSO. Write industrial uses of food additives. What is hot fat extraction? Discuss principle and working of colorimetry with	9
(B)	(1)(2)(3)(4)	Write a brief note on DMSO. Write industrial uses of food additives. What is hot fat extraction? Discuss principle and working of colorimetry with schematic diagram.	9
(B) (C)	(1) (2) (3) (4) (5) (6)	Write a brief note on DMSO. Write industrial uses of food additives. What is hot fat extraction? Discuss principle and working of colorimetry with schematic diagram. Enlist any one basic rule for sampling.	9
	(1) (2) (3) (4) (5) (6)	Write a brief note on DMSO. Write industrial uses of food additives. What is hot fat extraction? Discuss principle and working of colorimetry with schematic diagram. Enlist any one basic rule for sampling. Draw only diagram of atomic emission detector.	
	(1) (2) (3) (4) (5) (6)	Write a brief note on DMSO. Write industrial uses of food additives. What is hot fat extraction? Discuss principle and working of colorimetry with schematic diagram. Enlist any one basic rule for sampling. Draw only diagram of atomic emission detector. Explain manufacturing of various aminoethanol	
	(1) (2) (3) (4) (5) (6) Ans (1)	Write a brief note on DMSO. Write industrial uses of food additives. What is hot fat extraction? Discuss principle and working of colorimetry with schematic diagram. Enlist any one basic rule for sampling. Draw only diagram of atomic emission detector. Explain manufacturing of various aminoethanol with neat diagram.	
	(1) (2) (3) (4) (5) (6) Ans (1) (2)	Write a brief note on DMSO. Write industrial uses of food additives. What is hot fat extraction? Discuss principle and working of colorimetry with schematic diagram. Enlist any one basic rule for sampling. Draw only diagram of atomic emission detector. Explain manufacturing of various aminoethanol with neat diagram. Discuss sampling of liquid in detail.	
	(1) (2) (3) (4) (5) (6) Ans (1) (2) (3)	Write a brief note on DMSO. Write industrial uses of food additives. What is hot fat extraction? Discuss principle and working of colorimetry with schematic diagram. Enlist any one basic rule for sampling. Draw only diagram of atomic emission detector. Explain manufacturing of various aminoethanol with neat diagram. Discuss sampling of liquid in detail. Explain colorimetry analysis with diagram.	

3

3