Q.45 Define refining.

Ans. Refining process is the separation of crude oil mixture into various useful products (fractions). It is carried out by a process called fractional distillation

Q.46 Describe the difference between diesel oil and fuel oil.

Ans.

Diesel oil	Fuel oil				
i. It contains number of carbon, 13 to 15.	i. It contains number of carbon, 15 to 18.				
ii. It is used fuel for buses, trucks, railway	ii. It is used in ships and industries to heat				
engines, tubewell. Engines and other heavy	boilers and furnace.				
vehicles.					

Q.47 Write down the name, of our fractions obtained by the fractional distillation of residual oil.

Ans. The four fractions of residual oil are

i. lubricants

iii. wax

ii. paraffin

iv. asphalt

Q.48 What is the difference between crude oil and residual oil?

Ans.

Crude oil	Oil				
It is dark brownish viscous liquid which is formed of dead plant, and animals, where converted into a dark brownish viscous liquid.	After the fractional distillation of petroleum, the oil is left behind called residual oil				

Q.49 Which petroleum fraction is used in dry cleaning?

Ans. Gasoline or petrol is used in dry cleaning.

Multiple Choice Questions

1. Extraction of metals from its ores is called

- (a) Metallurgy
- (b) Mining
- (c) Grinding
- (d) All

- 2. At the time of partition, How many industries were present in Pakistan
 - (a) 30

(b) 32

(c) 34

(d) 40

(a)Copper glance (b) Chalcopyrite (c)Both a & b (d) None 4. Brown hair contains (a) Iron compound (b) Copper compound (c) titanium compound (d) both a & b 5. Blonde hair contains compounds of (a) Iron (b) copper (c) titanium (d) Molybdenum 6. Red hair contains compounds of (a) Iron (b) copper (c) titanium (d) molybdenum 7. Process of heating the concentrated ore to high temperature in excess of air is called (a) Rosasting (b) Smelting (c) Bessemerization (d) All 8. Which one is not metal? (a) Copper (b) Carbon (c) Chromium (d) Iron 9. The elements that do not conduct heat and electricity are called (a) Metallurgy involves which of the following steps? (a) Mining and enrichment (b) Reduction (c) Refining and casting (d) All of these 11. Blast furnace (b) Fire furnace (c) Bessemer converter (d) Reverberatory Furnace (c) Chromium ore (d) aluminum ore 14. Compounds of metals exist under earth crust are called (a) Ore (b) Gangue (c) Mineral (d) None 15. An ore consists of two portions pure metal and impurities called (a) ore (b) Silicates (c) Slag (d) gangue 16. Which contains sufficient amount of metal? (a) Mining and enrichment (b) Reduction (c) Refining and casting (d) All of these 11. Blast furnace usually used for the metallurgy of (a) Iron (b) copper (c) (c) Ironomium ore) (a) Roverberatory Furnace (c) Bessemer converter (d) Reverberatory Furnace (c) Chromium ore (d) aluminum ore 14. Compounds of metals exist under earth crust are called (a) Ore (b) Gangue (c) Mineral (d) None 15. An ore consists of two portions pure metal and impurities called (a) ore (b) Silicates (c) Slag (d) gangue 16. Which contains sufficient amount of metal? (a) Mining and enrichment (b) Reduction (c) Refining and casting (d) All of these 11. Blast furnace usually used for the metallurgy of (d) Na ₃ PO ₄ 20. Formula of soda ash is (a) Na ₂ CO ₃ (b) NaHCO ₃ (c) Na ₂ SO ₄ (d) Na ₃ PO ₄	3. Which one of the o	ore of copper?		of roasting during			
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(c) Refining and casting (d) All of these 11. Blast furnace usually used for the metallurgy of (a) Iron (b) Reduction (c) Ammonia gas (d) All 19. Formula of baking soda is (a) Na ₂ CO ₃ (b) NaHCO ₃ (c) Na ₂ SO ₄ (d) Na ₃ PO ₄ 20. Formula of soda ash is (a) Na ₂ CO ₃ (b) NaHCO ₃	(a) Mining and em	richment					
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(a) Iron (b) copper (c) Aluminum (d) both a & b (a) Na ₂ CO ₃ (b) NaHCO ₃	11. Blast furnace	usually used for the	A STATE OF THE STA	2 2			
(c) Aluminum (d) both a & b (a) Na ₂ CO ₃ (b) NaHCO ₃	metallurgy of			50 1004 100 100			
(c)/Hullimulii (d) com a co	(a) Iron	(b) copper					
(c)Na2SO4 (d) Na3PO4	(c) Aluminum	(d) both a & b					
			$(c)Na_2SO_4$	(d) Na_3PO_4			

21. Imperial chemical industries (ICI)	(c) 3-7 (d) 5-7
was established in	31. The number of carbon atoms
(a) 1942 (b) 1944	present in gasoline or petrol
(c) 1950 (d) 1996	(a) 5-10 (b) 6-10
22. Sindh alkalies limited was	(c)7-10 (d) 8-10
established near Karachi in	32. The number of carbon atoms
(a) 1965 (b) 1966	present in kerosene oil
(c) 1970 (d) 2000	(a) 8-12 (b) 9-12
23. How many % age of nitrogen in	(c) 10-12 (d) 11-12
urea fertilizers?	33. The number of carbon atoms
(a) 40.6 (b) 45.6	present in diesel oil
(c) 46.6 (d) 50	(a) 10-15 (b) 11-15
24. The raw materials for the	(c) 12-15 (d) 13-15
manufacturing of urea are	34. The number of carbon atoms
(a) Ammonia (b) Carbondioxide	present in fuel oil
(c)Limestone (d) a & b	(a) 14-18 (b) 15-18
25. Ammonia is prepared by the process	(c) 16-18 (d) 17-18
(a)Ostwald (b) Haber	35. Concentration is a separating
(c)Clark (d) all	technique in which mineral is separated
26. How many % age of urea is used as	from
fertilizers?	(a) Gangue (b) Silicates
(a) 80% (b) 90%	(c) Aluminates (d) all
(c)95% (d) 98%	36. Sodium carbonate is manufactured
27. How many % age of nitrogen	by
present in air by volume?	(a) Haber's process
(a) 70% (b) 75%	(b) Ostwald's process
(c) 78% (d) 80%	(c) Solvay's process (d) All
28. Formula of urea is	37. Ammonical brine is prepared by
(a) KCNO (b) H_2N -CO- NH_2	dissolving ammonia gas in
(c) HN - CO_2 - NH (d) H_3N - CO - NH_3	(a) NaCl (b) CaCO ₃
29. The number of carbon atoms	(c) CaCl ₂ (d) Na ₂ SO ₄
present in petroleum gas	38. The residual oil is heated above 400c
(a) 1-2 (b) 1-3	to produce
(c) 1-4 (d) 1-5	(a) lubricants (b) Paraffin wax
30. The number of carbon atoms	(c) Asphalt (d) All
present in petroleum ether	39. Concentration is a
(a) 1-5 (b) 2-5	(a) mixing technique

(b) separating technique (c) boiling technique (d) cooling technique 40. Froth flotation process is used to concentrate the ore on: (a) density basis (b) concentration basis (c) wetting basis (d) magnetic basis 41. Matte is a mixture of: (b) Cu₂O and FeO (a) FeS and CuS (d) CuS and FeO (c) Cu₂S and FeS 42. In the bessemerization process: (a) roasted ore is heated (b) molten matte is removed (c) molten matte is heated (d) molten matte is added 43. Concentration of the copper ore is carried out by: (b) roasting (a) calcinations (c) forth flotation (d) distillation 44. When CO2 is passed through the ammonical brine the only salt that precipitates is: (a) NaHCO₃ (b) NH₄HCO₃ (d) $(NH_4)_2CO_3$ (c) Na₂CO₃ 45. In Solvay's process slaked lime is used to: (a) prepare CO₂ (b) prepare quick lime. (c) recover ammonia (d) Form Na₂CO₃ 46. When NaHCO3 is heated it forms:

(b) $Ca(OH)_2$

(d) CaO

(a) CO_2

(c) CaCO₃

47. Formula of urea is: (a) NH₂COONH₄

(b) NH₂COONH₂ (c) NH₂CONH₄ (d) NH₂CONH₂ 48. Crude oil heated is fractionating furnace upto: (b) 350° C (a) 300° C (d) 450° C (c) 400° C 49. When crude oil is heated in the fractionating tower: (a) vapours of higher boiling point fraction condense first in the lower part of the tower (b) vapours of lower boiling point fraction condense first in the lower part of tower (c) vapours of higher boiling point condense lather in the upper part of tower (d) vapours of higher boiling point never condense 50. Which one of the following is used as jet fuel: (b) lubricating oil (a) kerosene oil (d) diesel oil (c) fuel oil 51. Which one of the following is not fraction of crude oil (a) paraffin wax (b) asphalt (d) petroleum coke (c) fuel oil 52. Which one of the following is not a fraction of petroleum? (a) kerosene oil (b) diesel oil (d) petrol (c) alcohol 53. The nitrogen present in urea is used by plants to synthesize (b) proteins (a) sugar (d) DNA (c) fats

(c) C_7H_{10}

(d) $C_{12}H_{26}$

(a) C₂H₄

(b) C₃H₈

Answer key

1	a	2	C.	3	С	4	b	5	c
6	d	7	a.	8	b	9	b	10	d
11	d	12	d	13	a	14	c	15	d
16	b	17	a	18	d	19	b	20	a
21	b	22	b	23	С	24	d	25	b
26	b	27	c	28	b	29	С	30	d
31	С	32	С	33	d	34	b	35	a
36	d ·	37	a	38	d	39	b	40	c
41	С	42	. c	43	С	44	a	45	С
46	a	47	d	48	c	49	a	50	d
51	С	52	c	53	b	54	С		