

نموذج اجابه لماده الاضافات البتروليه ١٣ ٤ ك

<u>نصف ورقه امتحانیه</u>

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اليوم: الأربعاء مساءا ١١-١-٢٠١٧

الزمن: ساعتان

Model Answer

<u>Part (B)</u>

<u>Cho</u>	bose the correct answer: (40 marks)		
41.	Dewaxing process can be used to remove compounds. a) Olefinic b) Paraffinic c) Aromatic d) Cycloalkanes		
42	, , , , , , , , , , , , , , , , , , ,		
42.	Aromatic base oil has fluidity at low temperature. a) Poor b) High c) Low d) Moderate		
43.	, , , , , , , , , , , , , , , , , , , ,		
43.	The lowest temperature at which it can vaporize to form an ignitable mixture in air is		
	a) Pour point. b) Self ignite point. c) Aniline point. d) Flash point.		
44	Theis the temperature at which wax crystals begin to appear in oil liquid.		
77.	a) Flash point. b) Ignite point. c) Aniline point. d) Pour point.		
45.	In crude oil, a high pour point is generally associated with highcontent.		
70.	a) Paraffinic. b) Aromatic. c) Naphthenic. d) Alcoholic.		
46.	The lowest temperature at which a mineral oil is completely miscible with an equal volume		
10.	of aniline is		
	a) Kraft point. b) Ignite point. c) Aniline point. d) Flash point.		
47.			
• 7 •	a) Resins. b) Acidic compounds. c) Lacquers. d) Alkali compounds.		
48.			
	a) Reduce friction. b) Decrease engine life. c) Reduce pour point. d) a, c.		
49.	The dispersants deposit precursors in oil.		
	a) Suspend. b) Coagulate. c) Aggregate. d) Precipitate.		
50.	compounds are used to improve the colour of lubricating oil		
	a) Polymeric b)Phenolic c) Iminic d) Dyes		
51.	viscosity index means the high change rate in viscosity with the temperature		
	a) High b) low c) Moderate d) None of them		
52.	is used to improve the pour point and viscosity index		
	a) Polypropylene b) Polybutylene c) Polyethylene d) Polymethacrylate		
53.			
	a) Decreasing b) Increasing c) Elevating d) b, c		
54.	Basic sulphonate compounds are used as additives		
	a) Anticorrosion b) Detergent c) Dispersant d) All of them		
55.	From the advantages of solvent used in solvent extraction process are		
	a) Chemically changed b) Low selectivity c) Hard to handle d) None of them		
56.	The solvent used in deasphalting process is		
	a) Butane b) Propene c) Toluene d) Propane		
57.	are the most widely used as antifoaming additives.		
	a) Carboxylics b) Amines c) Phenols d) Organic silicon polymers		
58.	From the advantages of Lubricating oils additives is		
	a) Must not interfere with each other b) chemically unchanged		
	c) More chemically reactive the base oil d) all of them		
59.	Polymethacrylates can be used as		
	a) Antifoaming additives b) Pour point depressants c) Colour additives d) All of them		
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60.	The metal components of an engine can be protected from corrosion process by		
	a) Inhibition of oil oxidation b) Acid neutralization c) Protective film formation d) All of them		

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62.	a) Neutral material b) Polar materials c) Nonpolar material d) None of the	em
02.	Zinc dithiophosphates are good destroyer a) Acid b) Ester c) Peroxide d) Amine	
63.	Lubricating oils can be classified according to their physical properties as addit a) Dispersants b) Viscosity improvers c) Anticorrosion d) Antifoam	ives
64.	Solvent exctraction is very important to remove compounds. a) Aliphatic b) Paraffinic c) Aromatic d) Olefinic	
65.	Deasphalting processes used to dissolve compounds in the top and asphal compounds are withdrawn from the bottom.	tenic
66.	a) Olefinic b) Paraffinic c) Aromatic d) Cycloalkanes Finishing treatment can be used to remove compounds. a) Nonpolar b) Polar c) Neutral d) Cycloalkanes	
67.	Viscosity index improvers are molecular weight polymers.	
	a) Long chain, high b) Short chain, high c) Long chain, low d) Short chain, low	w
68.	compounds are the most widely used detergents additives. a) Sulfonates b) Aromatic c) Nitrogenates d) Paraffines	
69.	Friction modifiers may be	
70.		
71.	Antifoaming additives are used to of foam. a) Decrease amount b) Weak the droplet c) Reduce the stability d) All of them	
72.	a) Antiwear b) Antifriction c) Detergent or dispersants d) Anticorrosion	
73.	Pour point depressantthe growth of wax crystals and their capacity to adsorbliquid oil to form gel. a) Decrease b) Raises c) Increases d) None of them) the
74.	The rate of change in viscosity with temperature can be expressed in terms of	
75.	Paraffinic base oil has volatility and high flash point a) High b) Low c) Moderate d) None of them	
76.	The pour point depressant can be occurred by a)Removing the long chain alkane b)Addition of polyester compounds c)Increasing of aromatic compounds d)All of them	
77.	Color and fluorescence additives can be used to a) Reduce friction b) Depress oil pour point c) Prevent rust formation d) None of the	m
78.	Lubricating oil has no point	.41
79. ′	a) Flash b) Pour c) Boiling d) Freezing The pour point is typically the cloud point.	
;	a) Higher than b) Lower than c) Equal d) b, c	
	The pH of lubricating oil must be5.5 a) Lower than b) Higher than c) Equal d) All of them	

With my best wishes
With my best wishes Dr. Ahmed Tantawy
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