

**A) 1) what are the different colours of crude oil (1.5) (A=10)**

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**A) 2) How many litres does a barrel of crude oil contain? And what does it produce? (Name the product and Gallons). (2.5)**

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**A) 3) In ancient times, what did people first use oil for?(1)**

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**A) 4) Look at the flow chart and decide if 1-8 are upstream, midstream or downstream. Tick (✓) the boxes.(2)**

	Upstream	Midstream	Downstream
1. Transportation of crude oil			
2. Selling of natural gas to consumers			
3. Exploration and discovery			
4. Refining crude oil			
5. Gas gathering			
6. Asphalt production			
7. Recovery of crude oil and natural gas			
8. Buying petrol/ gasoline from a filling station			

**A) 5) Make nouns from the verbs.(1.5)**

1. explore :	2. transport:
3. distribute:	4. Discover:
5. recover:	6. refine:
7. lubricate:	

**A) 6)complete the rules.(1.5)**

1. If a verb ends in a /t/ or /d/ sound, the final –ed is pronounced \_\_\_\_\_
2. if a verb end in a voiceless consonant sound, the final –ed is pronounced \_\_\_\_\_
3. if a verb ends in a voiced consonant sound, the final –ed is pronounced \_\_\_\_\_

**B) 1. Write the following in words. (3)**

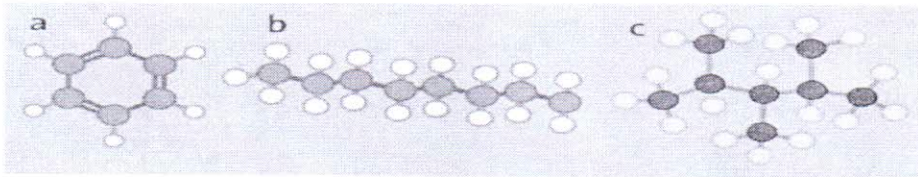
**(B= 11)**

1. (1.650):
2. (7.4 million):
3. (187.000):
4. (\$5.7 bn):
5. (€ 380.500):
6. (4.55.200):

**B) 2) Define the following terms. (2)**

1. Atom:
2. Molecule:
3. Boiling point
4. Mixture:

**B) 3) Look at the diagrams of three hydrocarbon molecules. What shape are they? (1.5)**

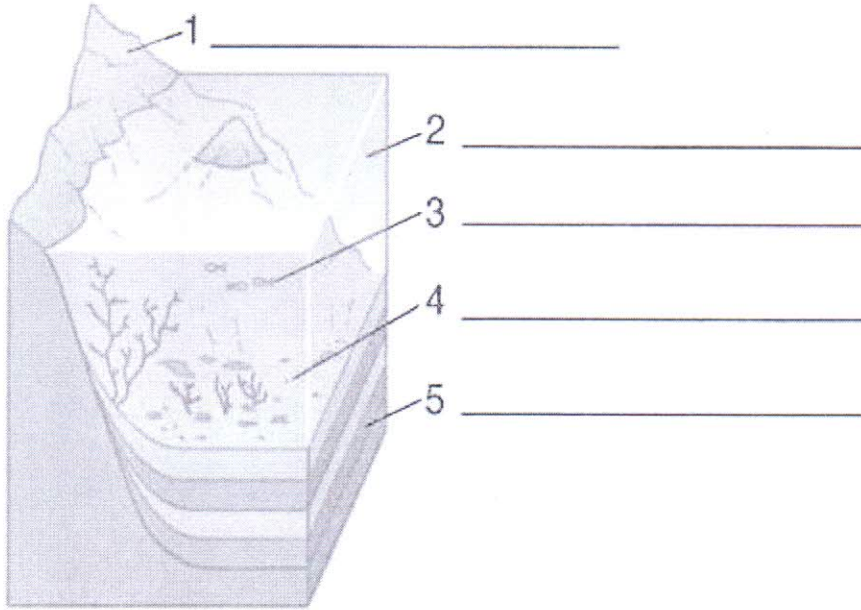


a)

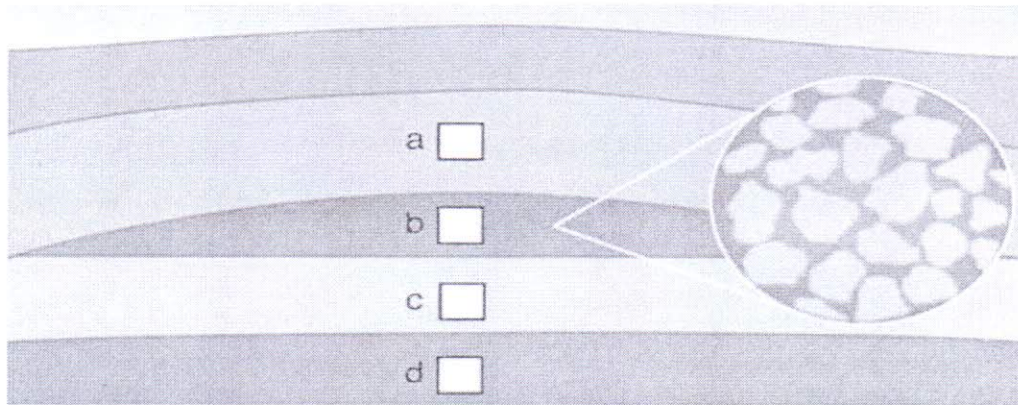
b)

c)

**B) 4) Fill in the information of oil and gas formation. (2.5)**



**B) 5) Label the name of rocks. (2)**



- a)
- b)
- c)
- d)

**C) 1) Complete the sentences with one of the phrasal verbs. (6) (C=19)**

Looking into, look for, look out for, came across, look up, find out

1. Can you send them an email to \_\_\_\_\_ the price of a new microscope?
2. If you can't remember his number, \_\_\_\_\_ it \_\_\_\_\_ in the staff register.
3. I was analysing some samples when I \_\_\_\_\_ some traces of rare fossils.
4. Always \_\_\_\_\_ traces of this rock, it usually signals the presence of hydrocarbons.
5. I can't find the well log for well 7, can you help me \_\_\_\_\_ it?
6. The safety engineer is \_\_\_\_\_ the reasons for the explosion.

**C) 2) Transform these sentences from active to passive. (5)**

1. Geologists conduct an aerial survey from a plane or satellite.

\_\_\_\_\_

2. They study the photographs for examples of reservoir rock formations.

\_\_\_\_\_

3. Afterwards, geologists on the ground collect rock samples and analyse them.

\_\_\_\_\_

4. Geochemists will explore the rainforests for oil soon.

\_\_\_\_\_

5. A magnetometer measures magnetic fields and an instrument called a gas chromatograph can analyse gas.

\_\_\_\_\_

**C) 3) Describe parts of the Rig and drill string. (8)**

1. Hook: \_\_\_\_\_

\_\_\_\_\_

2. Draw works: \_\_\_\_\_

\_\_\_\_\_

3. Derrick: \_\_\_\_\_

4. Swivel: \_\_\_\_\_

5. Monkey board: \_\_\_\_\_

6. Travelling block: \_\_\_\_\_

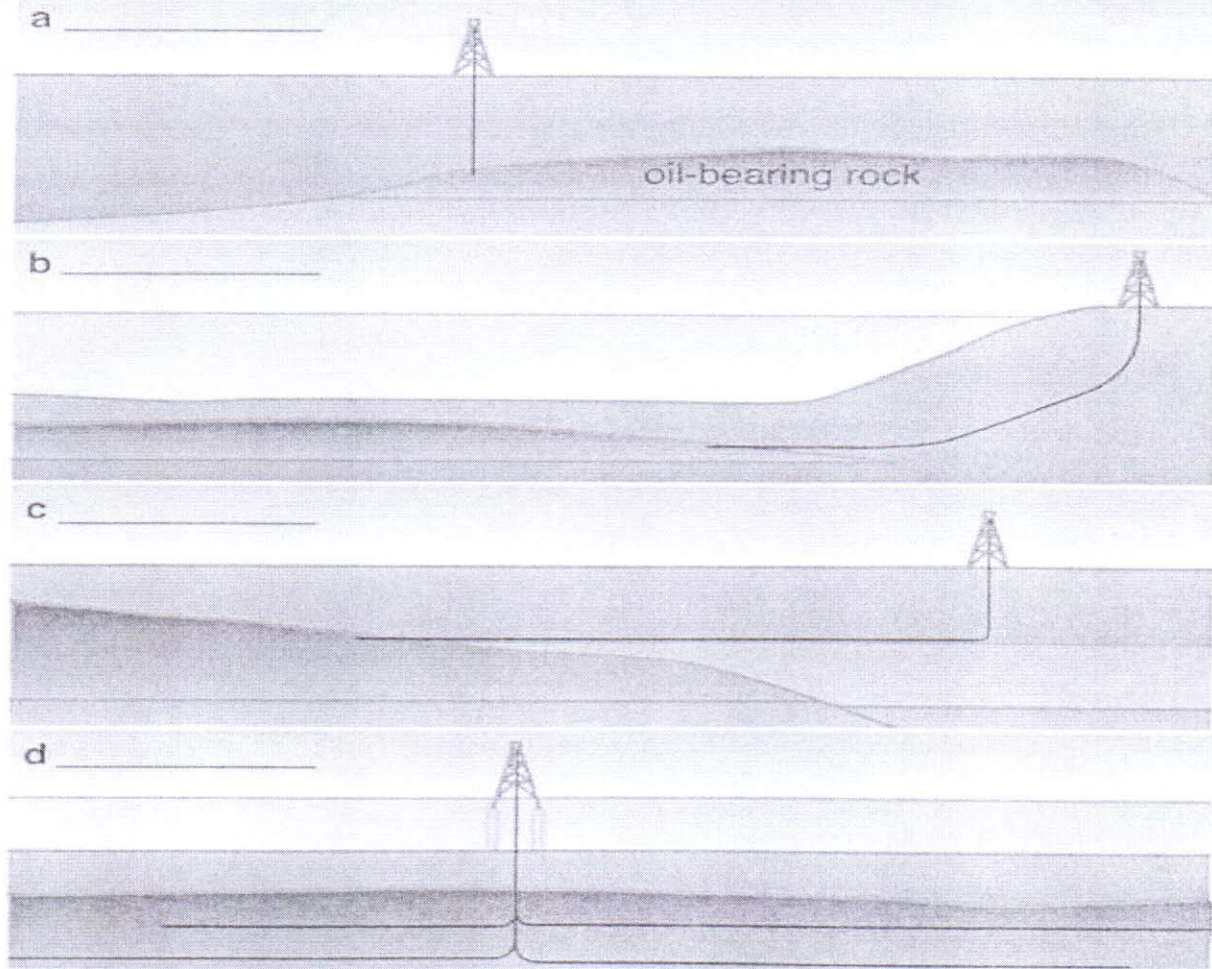
7. Crown block: \_\_\_\_\_

8. Kelly: \_\_\_\_\_

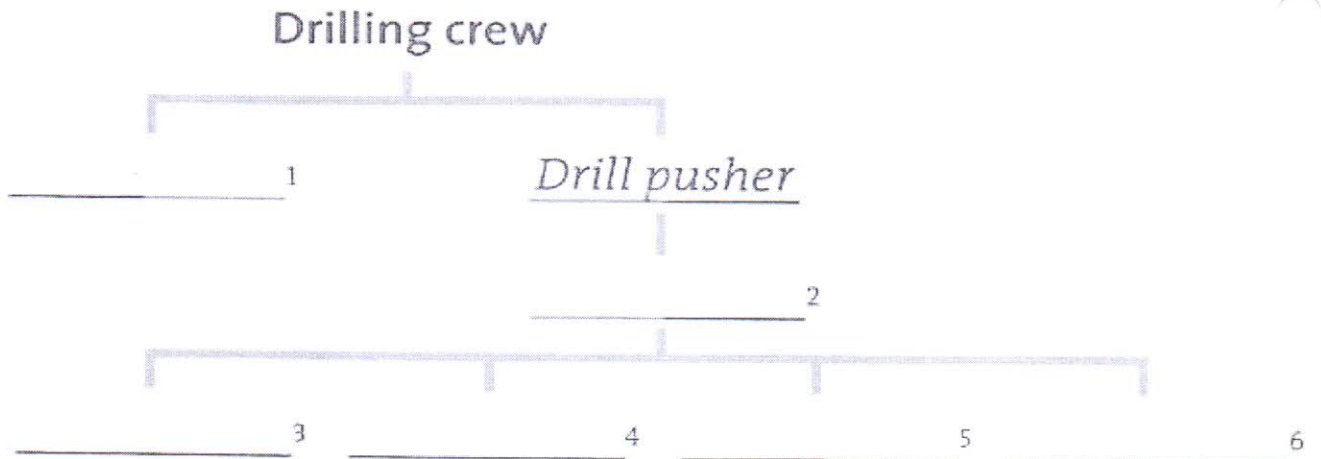
**D) 1) Make a contrast between drilling platforms. (2.5) (D=20)**

Semi-submersible, Drill ship, jack up unit

**D) 2) Label the diagrams with the type of drilling they show. (2)**



D) 3) Complete the organizational chart with the jobs. (3)



**D)4)Identify the following branches of engineering in the oil and gas industry.(8)**

a) Drilling Engineering	b) electrical engineering
c) environmental engineering	d) process engineering
e) mechanical engineering	f) structural engineering
g) production engineering	h) reservoir engineering

D) 5) What are these different measurements? And make questions about them. (5)

