EXERCISE WIRE LINE EQUIPMENT 3

1. A wireline BOP has a temperature rating of -20 to +120 °C. The seal element has a temperature rating of -20 to 90 °C. The well head assembly has temperature rating of - 20 to 180 °C. What is the maximum rated temperature of this wireline stack?

   a) 180 °C
   b) 90 °C
   c) 120 °C
   d) 60 °C

2. What is the correct procedure to shut in well after pulling a tool string out of hole? (THREE ANSWERS)

   a) Close Swab Valve and Upper Master Valve, bleed off and unscrew lubricator
   b) Inform Supervisor
   c) Check tool string pulled into lubricator, e.g. by counter, by sound, by 'feeling' the wire or by use of a tool catcher
   d) Close Swab Valve and count turns
   e) Note the time
   f) Close and inflow test Upper Master Valve
   g) Close Upper Master Valve, inflow test, close Swab Valve

3. What are the appropriate actions when running a tractor in a horizontal well and encountering a blockage? (TWO ANSWERS)

   a) Continue as tractors are not stopped by sand nor debris piled up
   b) Continue as a collapsed liner or casing is not a possible cause
   c) Nothing can be done. Abort operation
   d) As there is a possible sand blockage, we must circulate the sand out first, then try to pass with the tractor once more
   e) Investigate well conditions first before proceeding with next step

4. You are running braided wireline. When the grease injection seal is lost and observe a small leak, you attempt to re-energize the seal but that has failed. What action[s] is/are required to give you an opportunity and enough time to repair the GIH?

   a) Close the grease return
   b) Increase the grease injection pressure
   c) Stop cable movement. Close both braided line rams and inject grease between them
   d) Stop cable movement and close the Pack-Off [Stuffing Box]
   e) Stop cable movement

5. The wireline rig-up consists of;
Stuffing Box – Lubricator – Single BOP – Swab Valve – Wire Cutter Master Valve

Identify primary and secondary barrier if wire is blown out of well?

a) Primary – Swab valve Secondary – Wire Cutter Master Valve
b) Primary – Stuffing box Secondary – Swab Valve
c) Primary – Single BOP Secondary – Swab Valve
d) Primary – Single BOP Secondary – Wire Cutter Master Valve

6. You are rigging up on a well with 5,000 psi wireline equipment. Prior to perforating the well, the max. WHP is 4,800 psi. Well depth is 12,892 ft. and the hole filled with 9.1 ppg. After perforating, WHP has risen to 5,020 psi.

What action should be taken?

a) Check gauge calibration
b) Stop and call engineer in charge
c) Carry on as it's within 10% safety margin
d) It's OK as the fluid is 9.1 ppg. Fluid will reduce the BHP

7. During a wireline run in the well, the weight indicator shows a sudden drop in tension and is not going down anymore. What are the most likely reasons for this to happen? (TWO ANSWERS)

a) The tool string has hit a gas pocket or a change to low density well fluid
b) The tool string has hit some deposited scales in the well
c) The tool string is now running through high angle section of the hole
d) The wire has parted
e) The production tubing is buckled close to the production packer

8. During a wireline run in the well, the weight indicator shows a gradual drop in tension, but the tool string is still going down. What is the most likely reason for this to happen?

a) The wireline tool string hits the gas or change to low density of well fluid
b) The wireline tool string hits some deposited scales in the well
c) The wireline has run through high angle section of the hole
d) The wireline is broken in the well

9. Considering wireline surface equipment, which barrier components should, as a minimum, be available for a Slick Line operation, but not for a Braided Line operation? (TWO ANSWERS)

a) Stuffing Box
b) Riser
c) Single BOP
d) X/mas tree

10. You are currently running Slick Line in the well. If you want to run Braided Line for a fishing job, what change should be made in order to run this braided line safely?

a) Slickline BOP should be supplemented with a Dual Ram Braided Line BOP
b) Slickline BOP should be supplemented with Single Ram Braided Line BOP
c) Do nothing, the current rig up is OK
d) Remove Slickline BOP and replace with a Dual Ram Braided Line BOP

11. Which two of the following statements are correct regarding Wireline Shear Rams? (TWO ANSWERS)

a) All Shear Rams have a seal
b) Some Shear Rams have an integral seal
c) Some Shear Rams are combined with a Blind Ram
d) Shear Rams do not have seals

11.	a
12.	a
13.	b
14.	b
15.	a
16.	a
17a.	Primary Barrier: Stuffing Box [including Plunger] + Lubricator Sections
17b.	Secondary Barrier: Wire Line BOPs [Blind Rams]
17c.	Tertiary Barrier: Upper Master Valve [provided it can cut the wire]
18.	c
19a.	Primary Barrier: Grease Injection Head [GIH]
19b.	Secondary Barrier: Dual BOPs with Inverted Rams [for Braided/e-Line]
19c.	Tertiary Barrier: Shear/Seal BOPs [as a Single BOP above Xmas Tree]
20.	a
21.	a

EXERCISE WIRE LINE EQUIPMENT-3	
1.	b
2.	c, d, f
3.	d, e
4.	c
5.	b
6.	b
7.	b, e
8.	c
9.	a, c
10.	a
11.	b, c