1) Although they are called guidelines, compliance with the NIH Guidelines is mandatory for institutions which receive NIH funding for any work with rDNA.
   True       or       False

2) All rDNA work in human cell lines must be conducted:
   a) BL-1
   b) anywhere, as long as you register with the IBC
   c) BL-2
   d) BL-3

3) Match role with responsibility:
   A) PI  1) Appoint a Biological Safety Officer (BSO) to the IBC
   B) Institution  2) Determine which category (A-E) the experiments fall under
   C) Research staff  3) Approve experiments involving human gene therapy
   D) NIH RAC  4) Complete rDNA and other mandated trainings including Intro to Biosafety

   A:            B:          C:           D:

4) Activities covered under Section III-F are exempt from the Guidelines and do not require registration. These activities include:
   1. Purchase, transfer or maintenance of transgenic rodents
   2. Use of *E.coli* K12 vector system
   3. Use of rDNA that is not in organisms or viruses.
   4. All of the above
5. Match the activity with the level of oversight required

<table>
<thead>
<tr>
<th>A. NIH and IBC approval required before start</th>
<th>1. Breeding of transgenic rodents that are housed at BL1</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. IBC approval required before start</td>
<td>2 Transfer of drug resistance to microorganisms</td>
</tr>
<tr>
<td>C. IBC notification required at start</td>
<td>3 Use of a lentiviral vector system</td>
</tr>
<tr>
<td>D. Experiments are Exempt</td>
<td>4 rDNA with no more than 2/3 of the genome of any eukaryotic virus</td>
</tr>
</tbody>
</table>

Answer A: B: C: D:

6) Who is responsible to conduct a risk assessment to determine which containment level is required for the rDNA experiment?

1) the IBC
2) the NIH RAC
3) the PI
4) the Biosafety Officer

7) Experiments covered under Sections III A, B, and C require prior NIH approval. Which of the following is not included in that group:

a) Human gene transfer
b) Generating transgenic rodents
b) Transfer of drug resistance to microorganisms
d) Cloning of toxins with an LD50 < 100 ng/kg

8) The PI must:

a) Provide supervision to ensure appropriate lab techniques are followed
b) Register work with IBC
c) Ensure maintenance of the biological integrity of recombinant material
d) All of the above

9) Significant rDNA research related accidents or illnesses must be reported to the NIH:

a) immediately
b) within 30 days
c) in the annual IBC report
d) reporting to the IBC is sufficient

10) Spills and accidents which result in overt exposure to BL-2 organisms containing rDNA must be immediately reported to the IBC.

a) True
b) False