2 pts (0.5pt each)
Circle each of the following that is true about the neural developmental issues discussed in class due to exposure to toxic levels of radiation

  a) Has a known genetic cause
  b) Leads to a problem of the neural folds fusing to become the neural tube.
  c) Most severe if occurring between 8-16 weeks of development
  d) Leads to UNDERSHOOTING of cells to their final destinations during migration

2 pts (0.5 pt each)
Circle each of the following that is true about Huntington's Disease?

  a) Caused by > 37 repetitions of the CAG sequence in chromosome 4
  b) Leads to damage of the basal ganglia
  c) Leads to OVERSHOOTING of cells to their final destinations during migration
  d) Has a late onset (30-40 years old)

1 pt (0.5 pt each)
Unlike __________ cells, which show cell-autonomous differentiation, spinal motor neurons are influenced by the notochord to take their final form, a process called ___________.

(quiz is double-sided!)
1.25 pts (0.25 pts each)
Order the following (1=soonest, 5=latest) from earliest to latest stage of development:

___ Apoptosis
___ Differentiation
___ Migration
___ Proliferation
___ Synaptogenesis

1.5 pts (0.5 pts each)
During radial migration, migrating cells move along ____________ cells (be specific!). Newer
migrating cells _____________ older cells on the way to their target location, terminating their
migration at the _____________.

2.25 pts (0.75 each)
List 1 features of the face (FF) and 2 issues in the development of the nervous system (NS) that are
affected by Fetal Alcohol Syndrome

FF1:

NS1:

NS2:

BONUS (1 pt)
What is the name of the "dance"—the large, involuntary movements—that is seen in Huntington's
disease?

(quiz is double-sided!)