1. Indicate 5 comparison points between malformations and deformation.

	Malformation	**Deformation**
Type of occurrence	Embryonic period	Fetal period
Level of disturbance	Organ	Region
Perinatal mortality	+	-
Spontaneous correction	-	+
Correction by posture	-	+
Relative recurrence risk	Higher	Lower
Approximate frequency in neonates	3%	2%

2. List 7 indicators of hearing loss in a neonate when universal screening is not available.

   a) Family history
   b) In utero infection, e.g. cytomegalovirus, rubella, syphilis, and toxoplasmosis
   c) Craniofacial anomalies, including those with morphologic abnormalities of pinna and ear canal
   d) Birth weight <150 mg (3.3.lbs)
   e) Hyperbilrubinemia at a serum level requiring exchange transfusion
   f) Ototoxic medications including but not limited to aminoglycosides used in multiple courses or in combination with loop diuretics
   g) Bacterial meningitis
   h) Apgar scores of 0-4 at 1 min or 0-6 at 5 min
   i) Mechanical ventilation lasting 5 days or longer
   j) Stigmata or other findings associated with a syndrome known to include a sensorineural and/or conductive hearing loss.

3. What are the diagnostic criteria to essential (objective) tinnitus

   a. Sudden onset, related to other disease or injury
   b. Persistence, unchanged for more than 1 year
   c. Pronounced lateralization
   d. Synchrony with pulse
   e. Related to altered head position
   f. No symptoms of increased intracranial pressure
   g. No pulsation exophthalmos
   h. No abnormalities of extracranial arteries

    i.   Normal cerebral angiogram