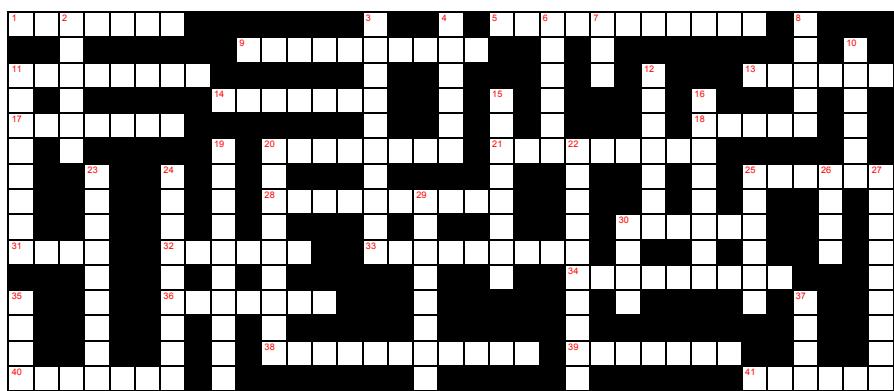


## Elements 35x15 2008-10-05

B.B. Huria

### Across

- 1 A soft silver-white ductile metal (liquid at normal temperatures); the most electropositive and alkaline metal (Cs) (7)
- 5 A radioactive transuranic element produced by bombarding plutonium with neutrons (E, Es) (11)
- 9 A trivalent metallic element of the rare earth group; forms compounds that are highly magnetic (Dy) (10)
- 11 A radioactive transuranic element (No) (8)
- 13 An essential component of all organic compounds (C) (6)
- 14 Its name is synonymous with that of the smallest planet which is nearest to the sun (Hg) (7)
- 17 A soft silvery metallic element of the rare earth group (Tm) (7)
- 18 A colourless and odourless inert gas; one of the six inert gases; comprises approximately 1% of the earth's atmosphere (Ar) (5)
- 20 Burns in air and reacts violently in water (Rb) (8)
- 21 A brittle silver-white metalloid element that is related to selenium and sulphur (Te) (9)
- 25 It constitutes about 20.8% of the air we breathe (O) (6)
- 28 Not found in nature; occurs as one of the fission products of uranium (Tc) (10)
- 30 A rare soft silvery metallic element (In) (6)
- 31 It itself is colourless but gives a red glow in a vacuum tube (Ne) (4)
- 32 If ammonia is used as



refrigerant, the pipeline has to be of this element (Cu) (6)

- 33 Broadly it resembles iron, but is not magnetic. Its primary use is in making of alloys and steel (Mn) (9)
- 34 A yellow trivalent metallic element of the rare earth group (Nd) (9)
- 36 Formerly, it was called columbium (Nb) (7)
- 38 A radioactive transuranic element synthesized by bombarding einsteinium with alpha particles (Md, Mv) (11)
- 39 Root cause of Indo-US 1-2-3 Agreement (U) (7)
- 40 Used in Batteries, pigments, coatings, PVC stabilizing (Cd) (7)
- 41 An intensely radioactive metallic element that occurs in minute amounts in uranium ores (Ra) (6)

### Down

- 2 A trivalent metallic element of the rare earth group; occurs with yttrium (Er) (6)
- 3 Used in Electrical equipment, refractory materials, pigments, etc. (Mo) (10)
- 4 A radioactive transuranic

metallic element; produced by bombarding plutonium with helium nuclei (Cm) (6)

- 6 A metallic element whose name is synonymous with that of a US coin worth 5 cents (Ni) (6)
- 7 Used in Metal sheeting, soldering and chemical industry (Sn) (3)
- 8 A chemical element commonly used as the dopant in photovoltaic device or cell material (B) (5)
- 10 A nonmetallic element belonging to the halogens family (I) (6)
- 11 It constitutes 78 percent of the atmosphere by volume (N) (8)
- 12 Next to oxygen, it is the most abundant element in the earth's crust (Si) (7)
- 15 A metallic element having four allotropic forms; used in a wide variety of alloys (Sb) (8)
- 16 A gray lustrous metallic element of the rare earth group; is used in special alloys (Sm) (8)
- 19 Reactive nonmetallic element that is important to living organisms and has many industrial uses (P) (10)
- 20 A rare polyvalent metallic element of the platinum group (Ru) (9)
- 22 A radioactive transuranic element synthesized from californium (Lw) (10)
- 23 Its deficiency causes problems with the nervous system including hand and foot spasms and cramping (Mg) (9)
- 24 Used in nuclear reactors as a neutron absorber (Zr) (9)
- 25 It is the heaviest metal known (Os) (6)
- 26 Women of the world possess most of it (Au) (4)
- 27 A radioactive transuranic metallic element (Np) (9)
- 29 It has the highest melting point among all metals (W) (8)
- 30 A small but most vital component of the haemoglobin (Fe) (4)
- 35 A metal that is used for galvanising of steel sheets and pipes (Zn) (4)
- 37 Bluish-gray metallic element that was one of the first known metals (Pb) (4)