## ST. XAVIER'S SENIOR SECONDARY SCHOOL, DELHI - 110054

Time: 1 hr.

Class 8

25-7-2014 Formative Assessment I in SCIENCE M. Marks: 20 PHYSICS (M. Marks: 07; Time: 20 mts.) 1. Give one use of electrostatic force.  $(\frac{1}{2})$ 2. Why magnetic force is a non-contact force?  $(\frac{1}{2})$ 3. Define atmospheric pressure. Why our body does not get crushed due to atmospheric pressure? (1) 4. Why heavy tanks are provided with caterpillar tracks? (1) 5. Differentiate balanced & unbalanced forces. What is the direction of motion of a body if it is under the action of several forces? (2) 6. Define Pascal. Calculate pressure exerted by a brick of dimension 25 x 10 x 5cm when placed upright on soil if weight of the brick is 20N. (2) CHEMISTRY (M. Marks: 07; Time: 20 mts.) 1. How is rayon fibre made, why is it called a regenerated fibre? (1)2. Write one property and one use of each of the following:-(1)Teflon **Bakelite** a) b) 3. Differentiate between thermoplastic and thermosetting plastic. (1)4. Give reason for the following:-Synthetic fibres are not very comfortable to wear in hot and humid season. a) b) Plastic containers are not used to store chemicals . (2) Name the following:-5. The plastic used to insulate the hollow walls of refrigerator. a) Synthetic fibre used to make strong ropes. b) Plastic which is transparent like glass. c) d) Fibre which resembles wool in its properties . (2) BIOLOGY (M. Marks: 06; Time: 20 mts.) 1. Fill in the blanks with suitable words:-(1) organelles are responsible for energy production in a cell. a) Jelly like substance present in the cell is \_\_\_\_ b) The largest known single cell is c) cells can change shape and squeeze through the walls of blood vessels. d) 2. What is cell division? Draw a labelled diagram of a cell showing cell division. (1) 3. Write any two differences between unicellular and multicellular organisms. (2) Write the functions of the following in a cell (any one function). 4. (2) Cell Membrane Mitochondria b) a) **Nucleus** c) d) Vacuoles.

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