

4. Unsaturated vegetable oils contain double carbon-carbon bonds. How can one determine the level of unsaturation of a vegetable oil without looking at its formulae?

- a) The more unsaturated a vegetable oil is, the more bromine water it can decolourise.
- b) Higher unsaturation will result in blacker solution when iodine is added to the test sample
- c) After adding dilute hydrochloric acid, more Carbon dioxide gas bubbles are formed in the oil sample having higher unsaturation
- d) Adding powdered aluminium will give off higher volumes of ammonia gas in samples of higher unsaturation

5. The works of Chinese pilgrim Xuan Zang in Buddhist texts and his travel accounts played a very crucial role in re-discovering the essence of Buddhism that was nearly lost in India. In his memory respecting his immense contribution, the XuanZang Memorial Hall was built at

- a) Rumtek Monastery
- b) Nava Nalanda Mahavihara
- c) Bodhgaya
- d) Central Pagoda, Igtapuri

6. As per the accounts of the Delhi Sultanate by the traveller Barani

- 1. No ruler allowed idol worship and preaching of Hindu texts.
- 2. Some prisoners of war were exempted from punishment if they converted to Islam under the Delhi sultanate.
- 3. Singing, dancing and public processions were forbidden in the name of any God or Goddess.

Select the correct answer using the codes below.

- a) 3 only
- b) 1 and 2 only
- c) 2 only
- d) 1 only

7. Energy price elasticity measures the percentage change in energy consumption against a percentage change in energy price. Why are generally energy prices relatively inelastic?

- 1. Energy as a commodity of consumption comes in the category of basic necessities.
- 2. Energy as an overall commodity does not have close substitutes of its own.

Which of the above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) None