

**Q.1) Amur Falcons were recently spotted in Pench Tiger Reserve. Consider the following with respect to Amur Falcons**

1. Amur Falcons are native species of Siberia and North-eastern China.
2. Indian state of Nagaland is the breeding ground of Amur falcons.
3. The conservation status of Amur Falcons as per IUCN is “Least Concerned”

Select the correct option

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

**Q.1) Solution (d)**

- Click [here](#)

**Q.2) The phenomena of Animal Sacrifices have continued to haul even today. Consider the following statements with respect to Later Vedic Religion?**

1. Absence of sacrifices.
2. The concept of karma emerged
3. Rise of Upanishad thought
4. Emergence of new gods like Vishnu, Rudra, Prajapathi.

Select the correct answer using the codes given below

- a) All of the above
- b) 3 and 4 only
- c) 1 and 3 only
- d) 2,3 and 4 only

**Q.2) Solution (d)**

- During later Vedic age ,religion was characterised by the rise of new gods that came in to prominence like -Vishnu, Rudra, Prajapati
- The sacrifices become more elaborate and complex and gained pre eminence over prayers. The simple character of Rig Vedic age was slowly disappearing.

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- Later Vedic age also marked by the rise of Upanishad thought, ie Concept of Brahma, salvation by means of knowledge and realisation.
- New philosophical concepts like Metempsychosis, Samsara, and karma emerged.
- Click [here](#)

### Q.3) Consider the following statement with respect to Solar Wind.

1. Solar wind is the energised plasma that spews from the Sun into the solar system at a supersonic speed of 160 million km per hour.
2. The solar wind plasma is mostly made up electrons, protons and Neutrons.
3. The beautiful phenomena of Aurora are caused by the interaction of the solar wind with the Earth's magnetosphere.

Select the incorrect option

- a) 1 and 2 only
- b) 2 only
- c) 2 and 3 only
- d) None of the above

### Q.3) Solution (b)

- The solar wind is a stream of energized, charged particles, primarily electrons and protons, flowing outward from the Sun, through the solar system at speeds as high as 900 km/s and at a temperature of 1 million degrees (Celsius).
- The solar wind plasma is mostly made up electrons and protons. The composition of the solar wind is a mixture of materials found in the solar plasma, composed of ionized hydrogen (electrons and protons) with an 8% component of helium (alpha particles) and trace amounts of heavy ions and atomic nuclei: C, N, O, Ne, Mg, Si, S, and Fe
- Auroras are produced when the magnetosphere is sufficiently disturbed by the solar wind that the trajectories of charged particles in both solar wind and magnetosphere plasma, mainly in the form of electrons and protons, precipitate them into the upper atmosphere (thermosphere/exosphere), where their energy is lost.

### Q.4) Consider the following statements with respect to Radiation Sterilisation

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1. Radiation Sterilisation is a cold process that uses gamma radiation for sterilisation of Healthcare Products.
2. Radioisotopes such as Cobalt-60 are commonly used for radiation sterilisation.

Select the correct statement

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

### Q.4) Solution (c)

- Radiation Sterilisation is a cold process that uses gamma radiation for sterilisation of Healthcare Products.
- Controlled gamma energy which is released by radioisotope such as Cobalt-60 is used for sterilisation.
- Cobalt-60 is most preferred radioisotope as it is readily available from single nuclear reaction in reactor and also cost effective.
- Click [here](#)

### Q.5) Consider the following causes of the failure of revolt, 1857.

1. The eastern, southern and western parts of India remained more or less unaffected.
2. Modern educated Indians viewed this revolt as forward looking and disagreed that British would usher an era of modernization.
3. The rebels represented diverse elements with common grievances and concepts of current politics.
4. The lack of unity among Indians was unavoidable at this stage of Indian history.

Which of the above statements are correct?

- a) Only 1 & 2
- b) Only 2 & 3
- c) Only 1 & 4
- d) All of the above

### Q.5) Solution (c)

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- It is estimated that not more than one fourth of the total area and not more than one tenth of the total population was affected.
- The revolt was poorly organized with no co-ordination or central leadership. The rebels represented diverse elements with differing elements with differing grievances.
- The modern educated Indians viewed this revolt as backward looking and mistakenly hoped the British could usher in era of modernization.
- Source: Revolt of 1857 Modern India Ncert.

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