

LAMARCKISM & NEO-LAMARCKISM

APR 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 2001

Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon

APRIL

① The "use and disuse" principle or theory of inheritance of Acquired characters for evolution was proposed by 17
Tuesday

(i) Hugo de Varies (ii) Weismann
(iii) Lamarck (iv) Darwin

Ans 1 - (iii)

② The key point of Lamarck's theory was or Lamarck's theory on Evolution is stated as -

- (i) Inheritance of acquired characters
- (ii) Natural selection
- (iii) Continuity of Germplasm
- (iv) Descent with change

Ans 2 - (i)

③ The book "Philosophic Zoologique" (1809) was written by -

- (i) Darwin (ii) Lamarck
- (iii) Mendel (iv) Haeckel

Ans 3 - (ii)

④ In a famous experiment, Weismann cut off the tails of new-born mice generation after generation. At the end of the experiment, the tail of mice neither disappeared nor shortened. This experiment

- (i) Supports Darwin's theory of natural selection.
- (ii) Shows that Lamarck was wrong in his theory of inheritance of acquired characters.
- (iii) Disproves de Vries mutation theory.
- (iv) Proves that tail is an essential organ of vertebrates.

Ans 4 - (ii)

APRIL

⑤ 18 Which evidence does not favour Lamarckism concept of inheritance of Acquired characters —

- Wednesday
- (i) Melanization is peppered moth in industrial areas.
 - (ii) Lack of pigment in cave dwelling animals.
 - (iii) absence of limbs in snakes
 - (iv) Presence of webbed toes in aquatic birds.

Ans 5 - (i)

⑥ Lamarckism envisages that organisms —

- (i) tend to grow in size.
- (ii) inherit characters acquired by their parents.
- (iii) are influenced by environment
- (iv) reproduce in large numbers.

Ans 6 - (ii)

⑦ Inheritance of 'acquired characters' is theory proposed by —

- (i) Darwin
- (ii) Lamarck
- (iii) Von Baer
- (iv) None of the above

Ans 7 - (ii)

⑧ One of the following scientists proved that acquired characters are somatic and can not be inherited —

- (i) Malthus
- (ii) Lamarck
- (iii) Weismann
- (iv) Mendel

Ans 8 - (iii)