

# DAIRY QUIZ

**RANJAN MOHANTA**

- White revolution deals with the growth of which sector in India?**
  - Agriculture
  - Industry
  - Milk (Dairying)
  - Fishery
- The headquarters of the National Dairy Development Board is in which city?**
  - Anand
  - New Delhi
  - Mumbai
  - Namakkal
- Who is known as the "Father of the white revolution"?**
  - M.S. Swaminathan
  - V. Kurien
  - M.S. Borlaug
  - C. Subramanyam
- Which popular farming leader supervised the white revolution with miraculous results in Khaira district of Gujarat?**
  - Tribhubandas Patel
  - Amrita Patel
  - Vinoba Bhave
  - Baba Amte
- What film directed by Shyam Benegal was based on the white revolution?**
  - Anand
  - Gopinath
  - Gokul
  - Manthan
- Which country occupies the number one position in the world in total milk production?**
  - USA
  - China
  - India
  - Brazil
- Which animal has the largest share in contribution of milk in India?**
  - Buffalo
  - Cow
  - Doe
  - Ewe
- What is the position of India in terms of buffalo population in the world?**
  - First
  - Second
  - Third
  - Fourth
- What is the position of India in terms of cattle population in the world?**
  - First
  - Second
  - Third
  - Fourth
- Which milk is more whitish, due to the absence of  $\beta$ -carotene pigment in milk?**
  - Cow
  - Buffalo
  - Ewe
  - Doe
- What is the name given to the first *in vitro* fertilized buffalo calf born in India at the National Dairy Research Institute, Karnal?**
  - Karan-Swiss
  - Pratham
  - Karan-Fries
  - Bhenshi
- Which is the major energy source for ruminants, like glucose in non-ruminants?**
  - Glucose
  - Sucrose
  - Volatile fatty acids
  - Fats
- Which breed of buffalo is used more in India due to its favourable characters?**
  - Surti
  - Murrah
  - Bhadwari
  - Mehsana
- What is the usual fat percentage of the milk of buffaloes?**
  - >5
  - >7
  - <7
  - 3-6
- Who is the present chairperson of NDDB?**
  - Amrita Patel
  - V. Kurien
  - M.S. Swaminathan
  - N. Borlaug
- Which greenhouse gas is one of the major belching products of ruminants?**
  - Methane
  - Carbon dioxide
  - Nitrous oxide
  - Sulphur dioxide
- Which volatile fatty acid is the major precursor of milk fat?**
  - Acetic acid
  - Propionic acid
  - Butyric acid
  - Valeric acid
- How many compartments does the ruminant stomach have in addition to the glandular stomach?**
  - One
  - Two
  - Three
  - Four
- Which state is the leading producer in milk in India?**
  - Punjab
  - Haryana
  - Rajasthan
  - Uttar Pradesh
- The first milk secreted after childbirth has more of which of the following for protection of the calf?**
  - Immunoglobulin
  - Proteins
  - Fatty acids
  - Lactose

## ANSWERS:

- |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|
| 1. c  | 2. a  | 3. b  | 4. a  | 5. d  | 6. c  | 7. a  |
| 8. a  | 9. b  | 10. b | 11. b | 12. c | 13. b | 14. b |
| 15. a | 16. a | 17. a | 18. c | 19. d | 20. a |       |

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# OH! OZONE

**BASANTA KUMAR DAS**

- The molecular formula for ozone is generally written as:**
  - O
  - O<sub>2</sub>
  - O<sub>3</sub>
  - O<sub>s</sub>
- What is the unit for ozone gas?**
  - A.U
  - B.U
  - C.U
  - D.U
- Who discovered the ozone hole in Antarctica?**
  - Joe Ferman
  - Enrico Fermi
  - Franz Joseph Gall
  - F. Cohn
- Which of the following would reduce Ozone pollution?**
  - Car pool or use of public transportation
  - Having your car tuned and inspected regularly
  - Using water-based paints and solvents instead of volatile paints and solvents
  - All of the above
- Stratospheric ozone, the ozone layer in the upper atmosphere:**
  - Needs to be reduced
  - Protects us from the harmful rays of sunlight
  - Causes skin cancer
  - All of the above
- Ground-level ozone pollution is:**
  - Also called tropospheric ozone
  - Harmful to people with asthma
  - Harmful to animals and plants
  - All of the above
- Generally cars:**
  - Emit H<sub>2</sub>O which causes ozone depletion
  - Emit ozone
  - Emit CO<sub>2</sub> which reacts with chlorofluorocarbons (CFCs) in the presence of sunlight to produce ozone
  - Emit nitrogen oxides and volatile organic compounds that react in the presence of sunlight to produce ozone pollution
- Which of the following is true?**
  - Cars are solely responsible for ozone pollution
  - Only chemical industries are responsible for smog
  - Emissions from cars and industries contribute to ozone pollution
  - None of the above
- In order to protect yourself when ozone pollution levels are high, you should:**
  - Minimise your outdoor activities
  - Stay indoors if you have respiratory problems
  - Play in the afternoons
  - Both 'a' and 'b'
- We are concerned that ozone levels:**
  - Are too high at ground levels
  - Are too high in the stratosphere
  - Are too low in the stratosphere
  - Both 'a' and 'C'
- Which of the following is true about Ozone?**
  - Ozone is formed when ultraviolet light strikes water releasing highly reactive oxygen atoms
  - Ozone is naturally formed only in the stratosphere
  - Stratospheric ozone is the result of the incomplete combustion of fossil fuels
  - Ozone acts as a shield by absorbing harmful UV rays
- During ozone season, people can help reduce ozone by:**
  - Mowing the lawn after 6 pm
  - Car pooling on by reducing use of cars/vehicles on days when high ozone levels are predicted
  - Limiting use of oil-based paints and volatile solvents
  - All of the above
- Troposphere ozone is:**
  - A gaseous emission from industry smokestacks and vehicle tailpipes
  - One of the main constituents of smog
  - Formed on hot, sunny days when nitrogen oxides (NO<sub>x</sub>) and volatile organic compounds (VOCs) undergo a photochemical reaction
  - Both 'b' and 'c'
- In which year thinning of ozone layer was first observed over the Antarctica?**
  - 1987
  - 1992
  - 1985
  - 1997
- The ozone hole is formed by destruction of ozone molecules by which manmade substances:**
  - T.N.T
  - CFCs
  - Isotopes of oxygen
  - Hydrogen
- Ozone is produced naturally by the action of sun's ultraviolet radiation on:**
  - Nitrogen
  - Carbondioxide
  - Oxygen
  - Hydrogen
- The target of the Montreal Protocol was to reduce the use of CFCs by 50% by:**
  - 1998
  - 1987
  - 1988
  - 1992
- 'World Ozone Day' is observed on:**
  - 16<sup>th</sup> August
  - 16<sup>th</sup> September
  - 16<sup>th</sup> November
  - 14<sup>th</sup> December
- The wavelength of ultraviolet radiation having wavelength between Violet light and X-rays is:**
  - 400 to 4 nanometre
  - 4000 to 40 nanometre
  - 40 to 400 nanometre
  - 400 to 40 nanometre
- 1 D.U. is generally accepted as:**
  - 1mm
  - 0.1 mm
  - 0.01 mm
  - 0.001 mm

## ANSWERS:

- |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|
| 1. c  | 2. d  | 3. a  | 4. d  | 5. b  | 6. d  | 7. d  |
| 8. c  | 9. d  | 10. d | 11. d | 12. d | 13. d | 14. c |
| 15. b | 16. c | 17. a | 18. b | 19. a | 20. c |       |

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