

Day #43 Of 60 Mission CDSE of Vision Defence Institute

Chemistry

1. A cycle consisting of one constant pressure, one constant volume and two isentropic process is known as which among the following?

- a) Carnot cycle
- b) Stirling Cycle
- c) Diesel Cycle
- d) Otto Cycle

2. The amount of heat required to raise the temperature of the unit mass of gas through one degree at constant volume is called as which among the following?

- a) Specific heat at constant volume
- b) Specific heat at constant pressure
- c) Kilo Joule
- d) None of these

3. Which of the following is the lightest and most volatile liquid fuel?

- a) Gasoline
- b) Kerosene
- c) Fuel
- d) Oil

4. The compression ratio for petrol engines is which among the following?

- a) 3 to 6
- b) 5 to 8
- c) 15 to 20

d) 20 to 30

5. What happens to an Entropy in an irreversible cyclic process?

- a) Remains constant
- b) Decreases
- c) Increases
- d) Becomes Zero

6. The Ratio of Specific heat at constant pressure and specific heat at constant volume is which among the following?

- a) Equal to 1
- b) Less than 1
- c) Greater than 1
- d) None of these

7. In an open system for maximum work, the process must be entirely of which among the following?

- a) Irreversible
- b) Reversible
- c) Adiabatic
- d) None of the above

8. Thermal power plant works on which among the following?

- a) Carnot Cycle
- b) Joule Cycle
- c) Rankine Cycle
- d) Otto Cycle

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9. The amount of heat required to raise the temperature of the unit mass of gas through one degree at constant volume is called as

- a) Specific heat at constant volume
- b) Specific heat at constant pressure
- c) Kilo Joule
- d) None of the above

10. Who among the following won the Nobel Prize in Chemistry in the year 2019?

- a) Abiy Ahmed Ali
- b) Peter Handke
- c) Akira Yoshino
- d) James Peebles

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Current Affairs December 2019

1. Who among the following was awarded 2019 Karmaveer Chakra by iCONGO and United Nations?

- a) Manjeet Singh
- b) Rahul Adhikari
- c) Aman Desai
- d) Sachin Tanwar

2. Which IIT has joined hands with the National Council of Science Museums to develop "Gandhipedia"?

- a) IIT Kharagpur
- b) IIT Delhi
- c) IIT Madras
- d) IIT Palakad

3. Which among the following archipelago did Tropical Cyclone Sarai recently hit?

- a) Indonesia
- b) Solomon Islands
- c) Fiji
- d) New Guinea

4. Him Darshan Express that was recently launched by the Indian Railways connects which of the following sites?

- a) Sikkim – Gangtok
- b) Kalka – Shimla
- c) Chandigarh – Shimla
- d) Shimla – Kolkata

5. Which among the following states recently celebrated the Mandu?

- a) Madhya
- b) Tamilnadu
- c) Rajasthan
- d) Uttar Pradesh

6. Which country has recently won the Christopher Martin-Jenkins Spirit of Cricket award for the 2019?

- a) India
- b) Australia
- c) New Zealand
- d) West Indies

7. World Wildlife Conservation Day was observed around the world on which date?

- a) December 4th
- b) December 5th
- c) December 3th
- d) December 2th

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8. Which became the first Asian country to be the “Guest of Honour Country” at the International Book fair, Mexico?

- a) China
- b) Japan
- c) India
- d) Aустarlia

9. The National Pollution Control Day is observed on 2 December every year in order to honour the lives that were lost because of the Bhopal gas calamity. The calamity occurred due to discharge of which gas?

- a) Propane
- b) Methyl Isocyanate
- c) Propyl Isocyanate
- d) Methane

10. International Day for the Abolition of Slavery is observed on which date?

- a) November 30
- b) December 1
- c) December 2
- d) December 3



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SEVE WITH HONOUR

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Solutions

Chemistry

1. C
2. A
3. A
4. B
5. C
6. C
7. B
8. C
9. A
10. C

Current Affairs December 2019

1. C
2. A
3. C
4. B
5. A
6. C
7. A
8. C
9. B
10. C