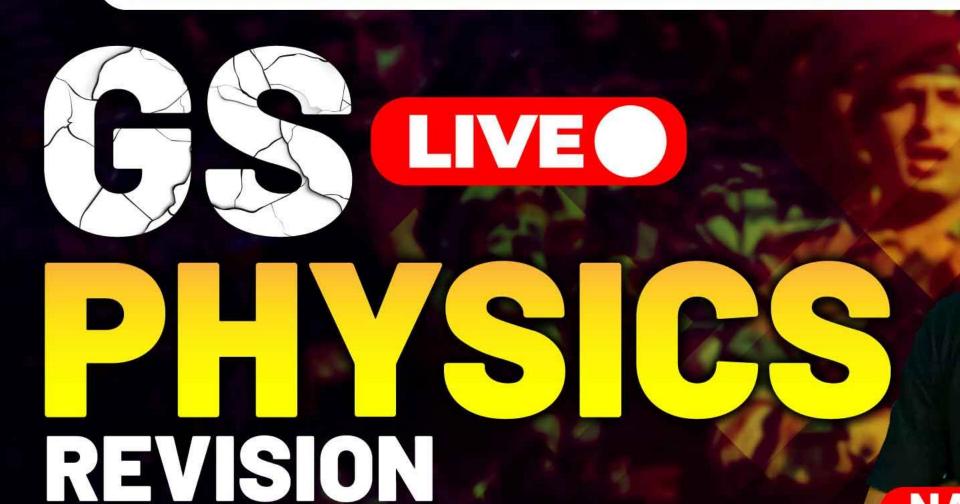
# NDA-CDS 2 2024



**CLASS 7** 

SSBCrack

**NAVJYOTI SIR** 

SSECrack



8:00AM 13 AUGUST 2024 DAILY CURRENT AFFAIRS RUBY MA'AM

9:00AM - 13 AUGUST 2024 DAILY DEFENCE UPDATES DIVYANSHU SIR

#### SSB INTERVIEW LIVE CLASSES

9:00AM -- OVERVIEW OF GROUP TASKS ANURADHA MA'AM

#### NDA 2 2024 LIVE CLASSES

11:00AM GK - GEOGRAPHY REVISION - CLASS 1 RUBY MA'AM

12:00PM PHYSICS REVISION - CLASS 7 NAVJYOTI SIR

1:00PM MATHS REVISION - CLASS 7 NAVJYOTI SIR

2:00PM BIOLOGY REVISION - CLASS 7 SHIVANGI MA'AM

5:30PM — ENGLISH - REVISION - CLASS 3 ANURADHA MA'AM

#### CDS 2 2024 LIVE CLASSES

11:00AM GK - GEOGRAPHY REVISION - CLASS 1 RUBY MA'AM

12:00PM PHYSICS REVISION - CLASS 7 NAVJYOTI SIR

2:00PM BIOLOGY REVISION - CLASS 7 SHIVANGI MA'AM

3:00PM MATHS REVISION - CLASS 7 NAVJYOTI SIR

5:30PM ENGLISH - REVISION - CLASS 3 ANURADHA MA'AM









# REVISION TOPICS:

Miscellaneous Topics

Nucleus -Heat Transfer -



1. Which one of the following energy is stored in the links between the atoms?

(a) Nuclear energy

(b) Chemical energy

(c) Potential energy

(d) Thermal energy



- Which one of the following energy is stored in the links between the atoms?
  - (a) Nuclear energy
  - (b) Chemical energy
  - (c) Potential energy
  - (d) Thermal energy

**ANSWER: C** 



Which of the following statements about latent heat for a given substance is/are correct?

- 1. It is fixed at a given temperature.
- 2. It depends upon the temperature and volume.
- 3. It is independent of temperature and volume.
- 4. It depends on the temperature but independent of volume.

Select the correct answer using the code given below:

- (a) 2
- (b) 1 and 3
- (c) 4 only
- (d) 1 and 4

H = ML



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Select the correct answer using the code given below:

- (a) 2
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- (d) 1 and 4

**ANSWER: D** 



- Thermal capacity of a body depends on the
  - (a) mass of the body only
  - (b) mass and shape of the body only
  - (c) density of the body
  - (d) mass, shape and temperature of the body

•



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  - (c) density of the body
  - (d) mass, shape and temperature of the body

**ANSWER: A** 



- 4. In which of the following phenomena do heat waves travel along a straight line with the speed of light?
  - (a) Thermal conduction
  - (b) Thermal convection
  - (c) Thermal radiation
  - (d) Both, thermal conduction and radiation



- 4. In which of the following phenomena do heat waves travel along a straight line with the speed of light?
  - (a) Thermal conduction
  - (b) Thermal convection
  - (c) Thermal radiation
  - (d) Both, thermal conduction and radiation

**ANSWER: C** 



- 5. Which of the following statements about specific heat of a body is/are correct?
  - 1. It depends upon mass and shape of the body
  - 2. It is independent of mass and shape of the body
  - 3. It depends only upon the temperature of the body

Select the correct answer using the code given below:

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

$$S = \frac{H}{m(\Delta T)}$$



- 5. Which of the following statements about specific heat of a body is/are correct?
  - 1. It depends upon mass and shape of the body
  - 2. It is independent of mass and shape of the body
  - 3. It depends only upon the temperature of the body

Select the correct answer using the code given below:

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

# **ANSWER: D**



The hydrogen bomb and the uranium bomb are based, respectively on

- (a) nuclear fusion and fission
- (b) fission and thermonuclear fusion
- (c) geothermal fission and fusion
- (d) geothermal fusion and fission



The hydrogen bomb and the uranium bomb are based, respectively on

- (a) nuclear fusion and fission
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- (d) geothermal fusion and fission

**Answer: (A)** 



Consider the following statements about the microphone and the speaker of a mobile phone:

- The microphone converts sound to a mechanical signal.
- 2. The microphone converts sound to an electrical signal.
- The speaker converts a mechanical signal to sound.
- The speaker converts an electrical signal to sound.

Which of the statements given above are correct?

- (a) 1 and 3
- (b) 1 and 4
- (c) 2 and 3
- (d) 2 and 4



Consider the following statements about the microphone and the speaker of a mobile phone:

- The microphone converts sound to a mechanical signal.
- 2. The microphone converts sound to an electrical signal.
- The speaker converts a mechanical signal to sound.
- The speaker converts an electrical signal to sound.

Which of the statements given above are correct?

- (a) 1 and 3
- (b) 1 and 4
- (c) 2 and 3
- (d) 2 and 4

Answer: (D)



# 3. Nuclear energy is generated by

- nuclear fission and its expression was proposed by Einstein.
- (b) nuclear fission and its expression was proposed by Rutherford.
- (c) nuclear fusion and its expression was proposed by Bohr.
- (d) nuclear fusion and its expression was proposed by Heisenberg.



# 3. Nuclear energy is generated by

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- (b) nuclear fission and its expression was proposed by Rutherford.
- (c) nuclear fusion and its expression was proposed by Bohr.
- (d) nuclear fusion and its expression was proposed by Heisenberg.

**Answer: (A)** 



In which of the following phenomena do heat waves travel along a straight line with the speed of light?

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- (c) Thermal radiation
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**Answer: (C)** 



Which of the following represents a relation for 'heat lost = heat gained'?

- (a) Principle of thermal equilibrium
- (b) Principle of colors
- Je Principle of calorimetry
- (d) Principle of vaporization



Which of the following represents a relation for 'heat lost = heat gained'?

- (a) Principle of thermal equilibrium
- (b) Principle of colors
- (c) Principle of calorimetry
- (d) Principle of vaporization

**Answer: (C)**