

11. According to Pascals law the pressure of gas in a vessel is

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|---|---|
| <u>A.</u> Different in different direction | <u>B.</u> Same in all direction |
| <u>C.</u> Same only along opposite directions | <u>D.</u> Same only along normal directions |

Answer: Option **B**

12. We can produce heat by

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|--------------------------------|------------------------------|
| <u>A.</u> Frictional process | <u>B.</u> Chemical processes |
| <u>C.</u> Electrical processes | <u>D.</u> All of the above |

Answer: Option **D**

13. Which one is true for internal energy?

- It is sum of all forms of energies
- | | |
|--|--|
| <u>A.</u> associated with molecules of a system | <u>B.</u> It is a state function of a system |
| <u>C.</u> It is proportional to transnational K.E of the molecules | <u>D.</u> All are correct |

Answer: Option **D**

14. Metabolism is the name of a process in which energy transformation takes place within

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|-----------------------|----------------------|
| <u>A.</u> Heat engine | <u>B.</u> Human body |
| <u>C.</u> Atmosphere | <u>D.</u> Laboratory |

Answer: Option **B**

15. Which one is not an example of adiabatic process ?

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|--|---|
| <u>A.</u> rapid escape of air from a burst tyre | <u>B.</u> rapid expansion of air |
| <u>C.</u> conversion of water into ice in refrigerator | <u>D.</u> cloud formation in the atmosphere |

Answer: Option C

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16. The pressure exerted by a column of mercury 76cm high and at 0°C is called
- A. 1 atmosphere B. 1 Newton per square meter
C. 1 Pascal D. data is insufficient

Answer: Option A

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17. Standard condition STP refer to a gas at
- A. 76cm 0°C B. 760mm 273K
C. 1atm 273K D. all of the above

Answer: Option D

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18. If the volume of a gas is held constant and we increase its temperature then
- A. its pressure is constant B. its pressure rises
C. its pressure falls D. any of above

Answer: Option B

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19. If the pressure of a given gas is held constant its density is inversely proportional to its absolute temperature. We can refer it as another statement of
- A. Boyles law B. Charles law
C. Ideal gas law D. Avagadros law

Answer: Option B

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20. Boyles law holds for ideal gases in
- A. isochoric processes B. isobaric processes
C. isothermal processes D. adiabatic processes

Answer: Option C

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