

HIDDEN TREASURE HIGH SCHOOL
SECOND TERM EXAMINATION 2023/2024 ACADEMIC SESSION
SUBJECT: PHYSICS CLASS: SS 1 TIME: 1½ HOURS

Instructions: Answer all questions in section A and three in B
SECTION A (Objective Test Questions: Choose correct option from A-D)

1. Cooking pots are usually made of metals because metals (A) have high coefficient of expansion (B) have low specific heat capacity (C) are poor radiators of heat (D) are good conductors of heat
2. The mechanism of heat transfer from one point to another through the vibrations of the molecules of the medium is called (A) Convection (B) Conduction (C) radiation (D) diffusion
3. On a hot and sunny day, the most comfortable colour of attire is (A) black (B) white (C) red (D) blue
4. The heat from the sun reaches the earth's surface by the process of (A) convection (B) conduction (C) radiation (D) precipitation
5. A blacksmith heated a metal whose cubic expansivity is $6.3 \times 10^{-6} K^{-1}$. The area expansivity is (A) $6.3 \times 10^{-6} K^{-1}$ (B) $4.2 \times 10^{-6} K^{-1}$ (C) $2.1 \times 10^{-6} K^{-1}$ (D) $2.0 \times 10^{-6} K^{-1}$
6. The sagging of overhead cables is the consequence of (A) linear expansivity (B) superficial expansivity (C) cubic expansivity (D) apparent expansivity
7. When a very hot water is poured into two identical thin and thick glass tumblers in equal volumes, the thick one cracks because (A) glass is a good conductor of heat (B) of the uneven expansion of the glass (C) glass is a crystal (D) of the even expansion of glass
8. A metal of volume 40 cm^3 is heated from 30°C to 90°C , the increase in volume is (A) 0.40 cm^3 (B) 0.14 cm^3 (C) 4.00 cm^3 (D) 1.20 cm^3 [Linear expansivity of the metal; $2.0 \times 10^{-5} K^{-1}$]
9. Which of the following sources of energy is renewable? (A) Petroleum (B) Charcoal (C) Hydro (D) Nuclear
10. If a cage containing a truck of coal weighing 750 kg is raised to a height of 90 m in 1 minute , what is the total power expended? (A) 11.50 kW (B) 12.60 kW (C) 11.25 kW (D) 12.10 kW [$g = 10 \text{ ms}^{-2}$]
11. What factor does not affect the amount of work done? (A) Force (B) distance (C) time (D) none of these
12. The faster an object travels (A) The greater its kinetic energy (B) The less its potential energy (C) The greater its potential energy (D) All of the above
13. The S.I unit of work is the (A) Newton (N) (B) Newton/metre (N/m) (C) Joule (J) (D) Joule/metre (J/m)
14. What is the gravitational potential energy of an object (A) energy due to only the motion of the object (B) potential energy stored in the nuclei of the object's atoms (C) energy due to only the height of the object above Earth's surface (D) energy due to the motion and position of the object above Earth's surface
15. A car with a mass of 1800 kg is travelling at a speed of 16.0 ms^{-1} . What is the kinetic energy of the car? (A) $4.61 \times 10^5 \text{ J}$ (B) $2.30 \times 10^5 \text{ J}$ (C) $5.6 \times 10^5 \text{ J}$ (D) $2.88 \times 10^5 \text{ J}$
16. Water stored in a dam possesses (A) no energy (B) electrical energy (C) kinetic energy (D) potential energy
17. If the speed of an object is doubled then its kinetic energy is (A) doubled (B) quadrupled (C) halved (D) tripled
18. The coefficient of volume expansion (β) is related to the coefficient of linear expansion (α) as follows: (A) $\beta = \alpha$ (B) $\beta = 2\alpha$ (C) $\beta = 3\alpha$ (D) $\beta = \frac{\alpha}{3}$

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Karin Nielsen-Saines



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Jingshin Theoretical Physics Symposium In Honor Of Prof Ta-you Wu Jong-ping Hsu, Leonardo Hsu, 1998-06-30 Prof T Y Wu is not only an eminent physicist with an encyclopedic knowledge but also a motivational teacher and an influential policy maker in science and technology The young Wu was inspired by Prof Y T Yao whose course on modern physics sparked an interest that burned during a long and productive career Among Wu s achievements are 14 books and more than 120 papers covering subjects from atomic and molecular physics to plasmas and gases to atmospheric physics to relativity theory Even at the age of 90 he remains active publishing papers and lecturing on physics Prof Wu feels grateful that he had the opportunity to educate a group of extremely talented students and in particular to discover T D Lee s remarkable talent Although creative talent is no doubt a product of nature it must also be nurtured Prof Wu has played a crucial role for an entire generation of physicists in China and has won great respect from former students such as C N Yang T D Lee K Huang and countless others Prof Wu s love of physics and his dedication in teaching and research will always be remembered

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