

Council for Technical Education and Vocational Training
Office of the Controller of Examinations
Sanothimi, Bhaktapur
Regular/Back Exam-2077, Magh/Phalgun

Program: Health All

Full Marks: 60

Year/Part: First Year (2016)

Pass Marks: 24

Subject: Physics

Time: 3 hrs.

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Group 'A'

Attempt Any Eight questions.

[8x2=16]

1. Obtain the dimensional formula of universal gravitational constant and specific heat capacity. [2]
2. At what angle should two equal forces act so that the resultant is equal to either of the force? [2]
3. How does a shot put player project a ball so that he could get a maximum range? Explain. [2]
4. Differentiate between elastic and inelastic collisions. [2]
5. Define principal focus and focal length in a lens. [2]
6. Sky appears blue in Colour. Justify it. [2]
7. Why can you get severe burn from steam at 100°C than from water at 100°C . [2]
8. During winter season the animals curl into a circle. Why? [2]
9. What do you mean by neutral temperature and temperature of inversion. [2]
10. Two magnetic lines of force never intersect to each other. Why? [2]

Group 'B'

Attempt Any Six questions.

[6x4=24]

11. What is conservation of energy? Show that the total mechanical energy of a free falling object is conserved. [1+3]
12. Define stress and strain. Derive an expression for energy density of a stretched wire. [1+3]
13. How does the value of g vary due to effect of depth inside the earth? Justify the value of g is zero at the center of earth. [3+1]
14. Define linear and cubical expansivity in solids. And hence obtain the relationship between them. [1+3]
15. Derive an expression for lens maker's formula. The power of lens changes when immersed in water. Why?

Cont....

Diploma First Year Applied Physics Questions Paper

PT Brinkman



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