

1) gravitational constant unit?

2) Newton's rings are result of? a) polarization B) diffraction

3) Which of the following is not sedimentation algorithm.

4) vertical force on an object with 1000N upward force, 9000N downwards and 500N towards left.

- A.500
- B.1000
- C.10000
- D.1050

5) neutrons penetrate further bcs of? Ans electrically neutral

6) What is true about the daughter element formed by beta radiation?

Options yad nahi bug right one was
Same mass no but charge no greater than parent element

7) What is true about isotopes?

Same charge no but diff mass no

8) if the high heat reservoir is at 400K and low heat reservoir is at 300K....calculate the efficiency

9) ideal gas constant?

10) Speed is 10m/s and frequency is 5 Hz....find wavelength...??

11) If temperature increases by 2 ...what will be effect on general gas eq...? Ans is i think $2nR$

12) The internal energy of the system is 560 and the work done by surroundings is 320....find Q ...?

13) A wire of length 2 m carries a current of ___ A.. How strong will be the magnetic field when the wire is 2cm away and then 4 cm away?

Sorry magnitude of current yad nh.

- a) 2
- b) $2(\text{under root } 2)$
- c) $4(\text{under root } 2)$
- d) 3

14) Single convex lense it applies to all :

- A) image always larger than object
- B) smaller than object
- C) image formed on same side of object
- D) erect
- E) inverted

15) parallel rays after passing through principle axis of convex lense

- A) converge on focal point
- B) away to focal point
- C) converge on center of sphere
- D) diverge