

Home Assignment

Subject: Physics (Generic + Regular)

B.Sc 2nd Semester (CBCS)

Paper: (PHY-HG/RC-2016)

(Electricity & Magnetism)

Read the Instructions carefully before submission

1. The Assignment contains 20 numbers of Multiple Choice Questions (MCQs), each having one correct answer. Out of 20 you have to attempt only 16 numbers of questions.
 2. Please take your time and read each question carefully, because once you submit it you can't modify the answers.
 3. Students are directed to submit the assignment by any one of the following methods
 - (i) Copy the link and past in the browser to get the assignment
(<https://forms.gle/Pxp3Z5wgPcGuMGEx7>)
 - (ii) Send the scan copy of the assignment to the email id: cbcs2ndg@gmail.com mentioning their Name, Roll Code and Roll No., Registration No.
 4. **Last date of submission is 08/08/2020**
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Total Marks = 16

1. A Physical quantity having direction as well as magnitude is called
 1. Vector quantity
 2. Scalar quantity
 3. None of the above
2. A Physical quantity having only magnitude but not having direction is called
 1. Scalar quantity
 2. Vector quantity
 3. None of the above
3. Force is a vector quantity
 1. True
 2. False
4. What is the magnitude of a unit vector?
 1. Unity.
 2. It has no magnitude.
 3. Zero.
5. Adding two vectors to get a single vector is termed as
 1. Resultant Vector

2. Final Vector
3. None of Above
6. Energy is a scalar quantity
 1. True
 2. False
7. Electric current is a
 1. Scalar quantity
 2. Vector quantity
 3. None of the above
8. Charge of electron is
 1. $1.60217662 \times 10^{-19}$ coulombs
 2. $1.60217662 \times 10^{19}$ coulombs
 3. None of the above
9. Mass of an electron is
 1. 9.109×10^{-31} kilograms
 2. 9.109×10^{31} kilograms
 3. None of the above
10. S.I Unit of electric charge is
 1. Coulomb
 2. Farad
 3. None of the above
11. S.I unit of capacitance is
 1. Farad
 2. Coulomb
 3. None of the above
12. SI unit of Current is
 1. Ampere
 2. Coulomb
 3. None of the above
13. SI unit of inductance is
 1. Henry
 2. Ampere
 3. None of the above
14. Which of the following has zero magnitude?
 1. Null Vector
 2. Unit Vector
 3. None of the above
15. Electric field intensity is the negative gradient of _____
 1. Potential
 2. Force

3. None of the above
16. Physical Significance of Gradient is the
 1. Rate of change of a parameter P with respect to parameter X.
 2. Net flow of field out of a unit volume.
 3. Rotation
17. Physical Significance of Divergence is the
 1. Net flow of field out of a unit volume.
 2. Rate of change of a parameter P with respect to parameter Q.
 3. Rotation
18. Physical Significance of Curl is
 1. Rotation
 2. Net flow of field out of a unit volume.
 3. Rate of change of a parameter P with respect to parameter Q.
19. S.I unit of magnetic field is
 1. Tesla
 2. Volt
 3. Second
20. Can two magnetic lines of force intersect each other?
 1. Yes
 2. No
