DEPARTMENT : PHYSICS

ACTIVITY : ENTRY LEVEL TEST

YEAR : 2019 – 2020

DEPARTMENT OF PHYSICS

DATE	TIME	VENUE
10.07.2019	10:00 a.m. to 11:00 a.m.	I B.Sc. Physics Classroom, EMGYWC
Nature of the Activity		Entry Level Test
Title		**Basics of Physics**
Convener		Mrs.R.Kayalvizhi Head & Assistant Professor of Physics EMGYWC
Coordinator		**Ms. R. Thenmozhi** Assistant Professor of Physics EMGYWC
No. of Participants		**Students -** 36

ENTRY LEVEL TEST ON "BASICS OF PHYSICS"

Objectives:

To evaluate students' comprehension of fundamental physics principles before beginning their formal coursework.

To assess their understanding across various domains of physics, including mechanics, thermodynamics, electricity and magnetism, and optics.

The test format consisted of multiple-choice questions with problem-solving tasks. These questions were designed to gauge students' knowledge and their ability to apply

theoretical concepts to practical situations. Students were required to demonstrate their understanding of basic laws, equations, and principles in each topic area.

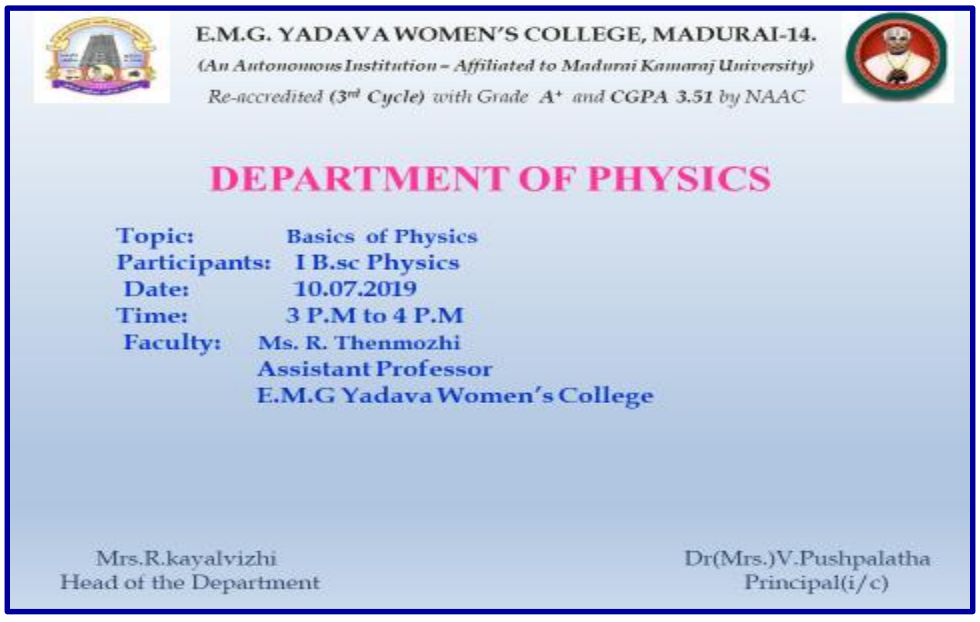
The test covered topics such as:

- Concepts of motion, force, energy, and momentum.
- Basic principles of heat, temperature, and thermal energy transfer.
- Fundamentals of electric charges, electric fields, magnetic fields, and their interactions.
- Basic concepts of light, reflection, refraction, and optical instruments.

The results of the test provided valuable information for both students and educators. Students gained awareness of their strengths and weaknesses in physics, enabling them to focus their efforts on areas needing improvement. Educators were able to adapt their teaching methods and curriculum to better meet the needs of their students. Overall, it emphasized the importance of mastering fundamental concepts before delving into more advanced topics within the discipline.

Enclosures:

a. Invitation :


E.M.G. YADAVA WOMEN'S COLLEGE, MADURAI-14.
(An Autonomous Institution – Affiliated to Madurai Kamaraj University)
Re-accredited (3rd Cycle) with Grade A+ and CGPA 3.51 by NAAC

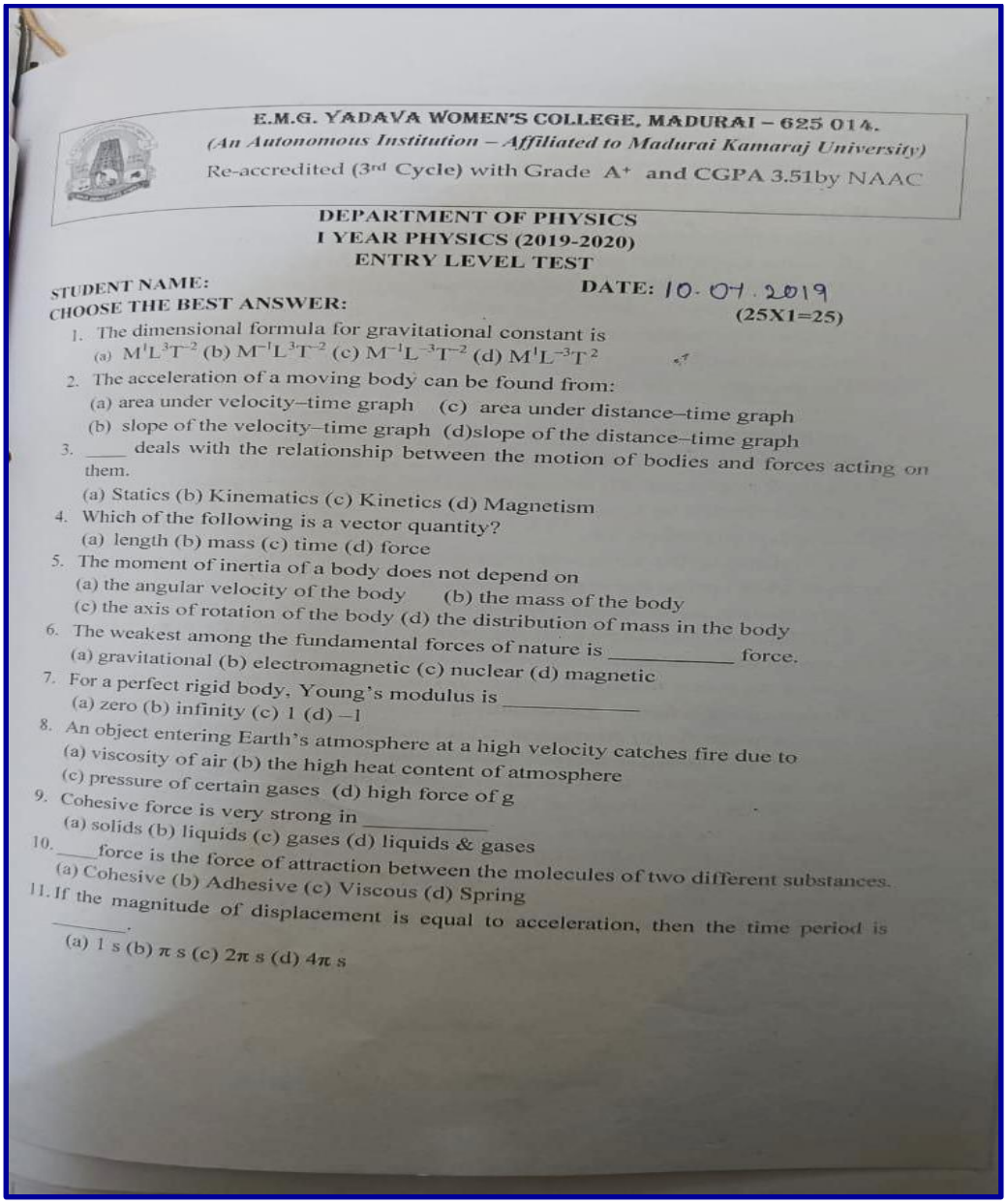
DEPARTMENT OF PHYSICS

Topic: Basics of Physics
Participants: I B.sc Physics
Date: 10.07.2019
Time: 3 P.M to 4 P.M
Faculty: Ms. R. Thenmozhi
Assistant Professor
E.M.G Yadava Women's College

Mrs.R.kayalvizhi
Head of the Department

Dr(Mrs.)V.Pushpalatha
Principal(i/c)

E.M.GOPALAKRISHNA KONE YADAVA WOMEN'S COLLEGE



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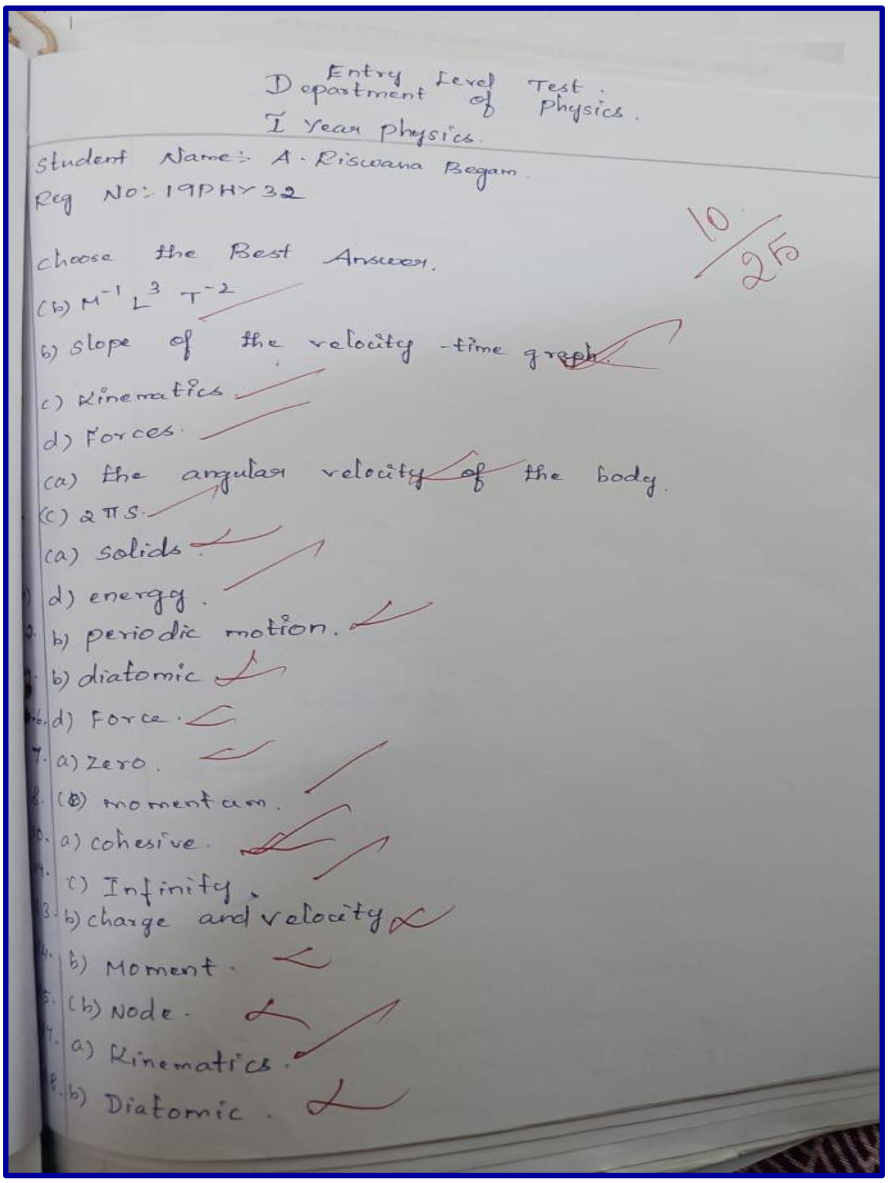
DEPARTMENT OF PHYSICS
I YEAR PHYSICS (2019-2020)
ENTRY LEVEL TEST

STUDENT NAME: **DATE:** 10.04.2019

CHOOSE THE BEST ANSWER: **(25X1=25)**

1. The dimensional formula for gravitational constant is
   (a) $M^1L^3T^{-2}$ (b) $M^{-1}L^3T^{-2}$ (c) $M^{-1}L^{-3}T^{-2}$ (d) $M^1L^{-3}T^2$
2. The acceleration of a moving body can be found from:
   (a) area under velocity–time graph (c) area under distance–time graph
   (b) slope of the velocity–time graph (d)slope of the distance–time graph
3. ____ deals with the relationship between the motion of bodies and forces acting on them.
   (a) Statics (b) Kinematics (c) Kinetics (d) Magnetism
4. Which of the following is a vector quantity?
   (a) length (b) mass (c) time (d) force
5. The moment of inertia of a body does not depend on
   (a) the angular velocity of the body (b) the mass of the body
   (c) the axis of rotation of the body (d) the distribution of mass in the body
6. The weakest among the fundamental forces of nature is _____ force.
   (a) gravitational (b) electromagnetic (c) nuclear (d) magnetic
7. For a perfect rigid body, Young's modulus is _____
   (a) zero (b) infinity (c) 1 (d) –1
8. An object entering Earth's atmosphere at a high velocity catches fire due to
   (a) viscosity of air (b) the high heat content of atmosphere
   (c) pressure of certain gases (d) high force of g
9. Cohesive force is very strong in _____
   (a) solids (b) liquids (c) gases (d) liquids & gases
10. ____force is the force of attraction between the molecules of two different substances.
    (a) Cohesive (b) Adhesive (c) Viscous (d) Spring
11. If the magnitude of displacement is equal to acceleration, then the time period is _____.
    (a) 1 s (b) π s (c) 2π s (d) 4π s



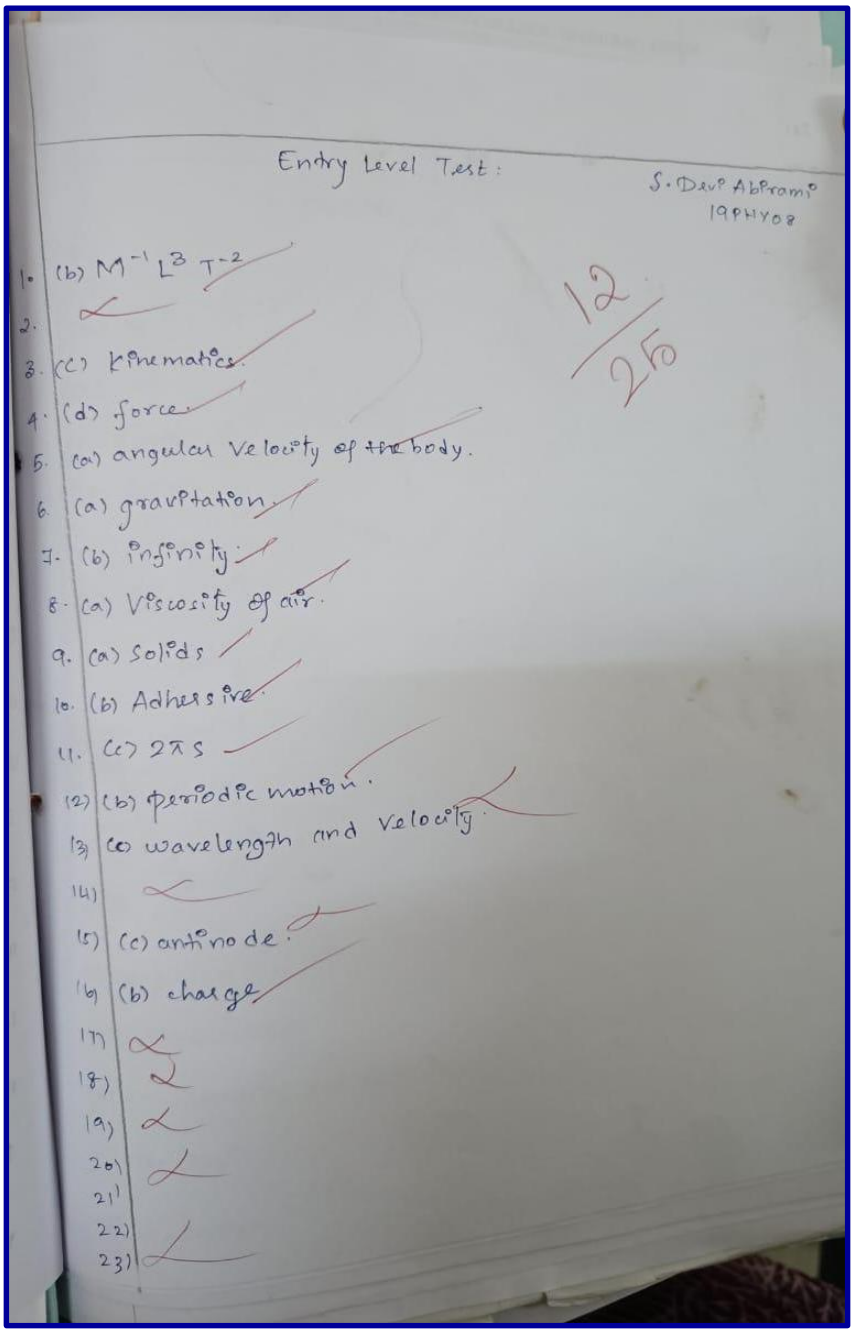
Department of Physics.
Entry Level Test.
I Year Physics.

Student Name: A. Riswana Begam.
Reg No: 19PHY32

10/25

Choose the Best Answer.

(b) $M^{-1} L^{3} T^{-2}$
b) slope of the velocity-time graph.
c) Kinematics
d) Forces.
(a) the angular velocity of the body.
(c) $2\pi S$
(a) solids
d) energy.
b) periodic motion.
b) diatomic
d) Force.
a) Zero.
(b) momentum.
a) cohesive.
c) Infinity.
b) charge and velocity
b) Moment.
(b) Node.
a) Kinematics.
b) Diatomic.



Entry Level Test:

S. Devi Abirami
19PHY08

1. (b) $M^{-1} L^3 T^{-2}$
2. ✓
3. (c) kinematics.
4. (d) force.
5. (a) angular velocity of the body.
6. (a) gravitation.
7. (b) infinity.
8. (a) Viscosity of air.
9. (a) solids
10. (b) Adhesive.
11. (c) $2\pi s$
12. (b) periodic motion.
13. (c) wavelength and velocity.
14. ✓
15. (c) antinode.
16. (b) charge
17. ✓
18. ✓
19. ✓
20. ✓
21. ✓
22. ✓
23. ✓

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a. **Nominal Roll of Participants:**

1. Student participants of EMGYWC:

Entry Level Test - Basics of Physics - 10.07.2019			
S.No.	**REGISTER NO.**	**NAME**	**DEPARTMENT**
1	19PHY02	D.Anitha	Physics
2	19PHY03	M.Anitha	Physics
3	19PHY04	S.Apsanabarveen	Physics
4	19PHY05	P.Archana	Physics
5	19PHY06	A.Bavani	Physics
6	19PHY07	I.Devadharshini	Physics
7	19PHY08	S.Devi Abirami	Physics
8	19PHY10	D.Dharani	Physics
9	19PHY11	K.Dharani	Physics
10	19PHY12	S.Dhivya Bharathi	Physics
11	19PHY13	V.Durga Sri	Physics
12	19PHY14	L.Elakkiya	Physics
13	19PHY15	P.Gayathri	Physics
14	19PHY16	M.Hema Shalini	Physics
15	19PHY18	A. Kavi Priya	Physics
16	19PHY19	P.Kirubha	Physics
17	19PHY20	M.Leena	Physics
18	19PHY21	C.Madhumitha	Physics
19	19PHY22	C.Muthamilselvi	Physics
20	19PHY23	S.Nandhini	Physics
21	19PHY24	S.K.Nandhini	Physics
22	19PHY25	P.Nisanthi	Physics
23	19PHY26	S.Nivetha Lakshmi	Physics
24	19PHY27	T.Pavithra	Physics
25	19PHY28	V.Preethi	Physics
26	19PHY29	M.Priyadharshini	Physics
27	19PHY30	N.Priyanga	Physics
28	19PHY31	N.Raghavi	Physics
29	19PHY32	A.Riswana Begam	Physics
30	19PHY33	P.Sarumathi	Physics
31	19PHY34	S.S.Shanmathi	Physics
32	19PHY35	S.Suba Parvathi	Physics
33	19PHY37	S.Swedha	Physics
34	19PHY38	P.Swetha	Physics
35	19PHY39	M.Thiruveni	Physics

36	19PHY40	G.Ubashini	Physics