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N.SRIRAMAKRISHNAN , SRI SARASWATHI PATASALA (G) HR.SEC.SCHOOL,KUMBAKONAM.9150655508

CLASS : 10	SUBJECT: SCIENCE
<b>DIFFERENTIATE THE FOLLOWING.</b> (Write:Basic definition,scalar quantity,vector quantity,expressions,units ,examples.Minimum 4points for 2marks and all points for 4marks)	

- 1) Like and Unlike parallel forces.(3)
- 2) Inertia of rest,motion and direction with examples.(2,3)
- 3) Balanced and unbalanced forces.(4)
- 4) Moment of force and Impulse (5,7)
- 5) Mass and Weight.(10)
- 6) Elastic and Inelastic scattering.(18)
- 7) Tyndall scattering and Raman scattering.(19)
- 8) Convex and concave lens.(23)
- 9) Myopia and Hypermeteropia.(25)
- 10)Prebyopia and Astigmatism(25,26)
- 11)Linear,Superficial and Cubical expansion.(34,35)
- 12)Real expansion and apparent expansion.(36)
- 13)Coefficient of real expansion and coefficient of apparent expansion.(36)
- 14)Ideal gas and real gas.(37)
- 15)Electric potential and potential difference.(44)
- 16)Resistance and conductance.(46)
- 17)Resistivity and conductivity.(46)

- 18)Resistors in series and Parallel.(49)
- 19)Electric energy and Electric Power.(51)
- 20)Sound and Light waves.(60)
- 21)Audible waves,Infrasonic waves and Ultrosonic waves.(60)
- 22)Natural and Artificial radioactivity.(76)
- 23)Alpha,Beta and Gamma rays.(77)
- 24)Controlled and Uncontrolled chain reaction.(79)
- 25)Nuclear fission and Nuclear Fusion.(82)
- 26)Atom bomb and Hydrogen bomb.(80,81)
- 27)Relative atomic mass and Average atomic mass.(92,93)
- 28)Atoms and Molecules.(96)
- 29)Atomic radius and Ionic radii.(109,110)
- 30)Aqueous and Non-aqueous solutions.(126)
- 31)Saturated,Unsaturated and Super saturated solutions.(126,127)
- 32)Mass percentage and Volume percentage.(129)
- 33)Hygroscopic and Deliquescence substances.(131)
- 34)Combination reaction,Decomposition reaction.(142)
- 35)Single Displacement reaction and Double Displacement reaction.(141,142)
- 36)Reversible and Irreversible reaction.(145)

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37)Chemical equilibrium and Physical equilibrium.(146,147)

38)Acyclic and Cyclic compounds.(156)

39)Alkane,Alkene and Alkynes.(157)

40)Soap and Detergents.(169)

41)Dicot and Monocot root.(177)

42)Dicot and Monocot stem.(178)

43)Dicot and Monocot leaf.(180)

44)Aerobic and Anaerobic respiration.(183,184)

45)Diffusion and Osmosis.(201)

46)Apoplast and Symplast pathway.(202)

47)Artery and vein.(206)

48)Open and Closed types of blood circulation.(207)

49)Systole and diastole.(210)

50)voluntary and involuntary actions.(224)

51)Medullated and non-medullated nerve fibre.(220)

(medullated ie myelinated & non-medullated ie non-myelinated)

52)Endocrine and Exocrine glands.()

53)Asexual and sexual reproduction.(243)

54)Monohybrid cross and Dihybrid cross.(262,263)

55)Homologous and Analogous organs.(275)

56)Inbreeding and Outbreeding.(291)

57)Differentiated and Undifferentiated stem cell.(293)

58)Embryonic and Adult stem cell.(294)

59)Type-1 and Type-2 Diabetes Mellitus.(307)

60)Cancer cell and Normal cell.()

61)Malignant and Non-malignant tumours.(309)

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CLASS: 10. SUBJECT: SCIENCE

IMPORTANT LAWS,DEFINITIONS.

(Write expressions if any.அனைத்து வரிகளும்  
அடிமாறாமல்,வார்த்தைகள் மாறாமல் எழுதவேண்டும்)

1)Newton's first law(2)

2)Newton's second law(6)

3)Principle of moments(5)

4) Newton's third law(7)

5)Newton's law of gravitation.(8)

6)Laws of refraction.(17)

7)Rayleigh's scattering law (18)

8)Mie scattering.(18)

9)Tyndall scattering.(19)

10)Raman scattering.(19)

11)Calorie(34)

12)Kilocalorie(34)

13)Coefficient of linear expansion.(34)

14) Coefficient of superficial expansion.(35)

15) Coefficient of cubical expansion.(35)

16) Coefficient of real expansion.(36)

17) Coefficient of apparent expansion.(36)

18)Boyle's law.(36)

19)Charles's law.(37)

20)Avogadro's law.(37)

21)Real gas.(37)

22)Ideal gas.(37)

23)Ohm's law.(45)

24)Resistance of a conductor.(45)

25)Joule's law of heating.(50)

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26)Laws of reflection of sound.(62)

27)Doppler effect.(66)

28)Rutherford.(76)

29)Becquerel(76)

30)Roentgen(76)

31)Alpha decay.(78)

32)Beta decay(78)

33)Gamma decay(78)

34)Relative atomic mass(92)

35)Average atomic mass(93)

36)Relative molecular mass(95)

37)Avogadro hypothesis(98)

38)Vapour density(99)

39)Modern periodic law(107)

40)Concentration of a solution(129)

41)Mass percentage(129)

42)Volume percentage(129)

43)Chemical equilibrium (146)

44) Functional group(158)

45)Respiratory quotient(184)

46)Diffusion(201)

47)Osmosis(201)

48)Apoplast(202),Symplast(202)

49)Principles of Lamarckism(277)

50)Type-1 and Type-2 diabetes mellitus(306)

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