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Goyal, 2024-08-11 1 Number Systems 2 Polynomials 3 Coordinate Geometry 4 Linear Equations in Two Variables 5 Introduction to Euclid's Geometry 6 Lines and Angles 7 Triangles 8 Quadrilaterals 9 Areas of Parallelograms and Triangles 10 Circles 11 Constructions 12 Heron's Formula 13 Surface Areas and Volumes 14 Statistics 15 Probability Appendix 1 Proofs in Mathematics Appendix 2 Introduction to Mathematical Modelling NCERT Exemplar Problems with Solutions **Educart CBSE Question Bank Class 9 Social Science 2025-26 on new Syllabus 2026 (Most Recommended NCERT based Reference Book)** Educart, 2025-04-21 Book Structure Related Theory Detailed Solutions How Good is the Educart Class 9 Question Bank Updated with the most recent exam format and question trends Step by step solutions enhance understanding and problem solving skills Covers NCERT Exemplar and previous years board exam questions Helps students familiarise themselves with exam style questions and manage time efficiently Well researched and accurate answers to avoid confusion Preferred by high achieving students for its clarity and effectiveness Covers all topics with clear explanations and step by step solutions Includes previous years question papers along with marking schemes Additional practice questions to enhance understanding and exam readiness Detailed solutions to NCERT and Exemplar problems for thorough preparation Why choose this book The Educart Class 9 Question Bank is an excellent resource for students aiming to excel in their board exams This book is designed to provide a structured approach to revision offering fully solved past exam papers and additional practice questions **Educart CBSE Question Bank Class 9 Science 2025-26 on new Syllabus 2026 (Most Recommended NCERT based Reference Book)** Educart, 2025-04-16 Book Structure Related Theory Detailed Solutions How Good is the Educart Class 9 Question Bank Updated with the most recent exam format and question trends Step by step solutions enhance understanding and problem solving skills Covers NCERT Exemplar and previous years board exam questions Helps students familiarise themselves with exam style questions and manage time efficiently Well researched and accurate answers to avoid confusion Preferred by high achieving students for its clarity and effectiveness Covers all topics with clear explanations and step by step solutions Includes previous years question papers along with marking schemes Additional practice questions to enhance understanding and exam readiness Detailed solutions to NCERT and Exemplar

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gravitational pull of the earth and study its relationship with the angle of inclination by plotting graph between force and  $\sin$

**Viva voce SECTION B EXPERIMENTS**

1 Elasticity 1 To determine the Young's modulus of elasticity of the material of the wire using Searle's apparatus Viva voce 2 Spring Constant 2 To find the spring constant of a helical spring by plotting load extension graph Viva voce 3 Boyle's Gas Law 3 To study the variation in volume with pressure for a sample of air constant temperature by plotting graphs between P and V and between P and  $\frac{1}{V}$  18 Viva voce 4 Surface Tension 4 To determine the surface tension of water by capillary rise method Viva voce 5 Viscosity 5 To determine the coefficient of viscosity of given liquid by measuring the terminal velocity of a given spherical body in it Viva voce 6 Newton's Law of Cooling 6 To study the relationship between temperature of a hot body and time by plotting a cooling curve Viva voce 7 Vibrations of Strings 7 To study the relation between frequency and length for a given wire under constant tension using a sonometer Viva voce 8 To study the relation between the length of a given wire and tension for constant frequency using sonometer Viva voce 8 Vibrations of Air Columns 9 To find the velocity of sound in air at room temperature using a resonance tube by two resonance position Viva voce 9 Specific Heat 10 To determine specific heat of a given solid by the method of mixture 11 To determine the specific heat of a given liquid by method of mixture Viva voce

**SECTION A ACTIVITIES**

1 To make a paper scale of given least count e.g. 0.2 cm, 0.5 cm and use it to measure the length of a given object 2 To determine the mass of a given body using a metre scale and by applying principle of moments Viva voce 3 To plot a graph for a given set of data using proper choice of scales and error bars Viva voce 4 To measure the force of limiting friction for rolling of a roller on horizontal plane Viva voce 5 To study the variation in the range of a jet of water with angle of projection Viva voce 6 To study the conservation of energy of a ball rolling down on inclined plane using a double inclined plane Viva voce 7 To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time Viva voce

**SECTION B ACTIVITIES**

1 To observe the change of the state and plot a cooling curve for molten wax Viva voce 2 To observe and explain the effect of heating on a bimetallic strip Viva voce 3 To note the change in level of liquid in a container on heating and interpret the observations Viva voce 4 To study the effect of detergent in surface tension by observing capillary rise Viva voce 5 To study the factors affecting the rate of loss of heat of a liquid Viva voce 6 To study the effect of load on depression of a suitably clamped meter scale loaded i) at its end ii) in the middle Viva voce 7 To observe the decrease in pressure with the increase in velocity of the fluid Viva voce

**APPENDIX Some Important Tables of Physical Constants Log Antilog and other Tables**

**NCERT Biology Practical/Lab Manual/Project Class 12** Dr. Sunita Bhagiya, Megha Bansal, 2024-09-29

**EXPERIMENTS**

1 To study pollen germination on slide 2 To study plant population density by quadrat method 3 To study plant population frequency by quadrat method 4 To study various stages of mitosis in root tip of onion by preparing slide in acetocarmine 5 To study the isolation of DNA from available plant material such as spinach green pea seeds papaya etc

**SPOTTING**

1 Pollination in flowers 2 Pollen germination 3 Slides of mammal tissues 4 Meiosis cell division 5 T.S. of Blastula 6 Mendel's inheritance laws 7

Pedigree chart 8 Controlled pollination 9 Common disease causing organisms 10 Symbolic Association in root nodules 11 Homologous and analogous organs PROJECTS 1 To study the different means of pollination 2 To study infectious diseases of humans 3 To study birth rate and death rate In your village or town 4 To study genetic disorders 5 To study malaria causes and disorders 6 To study causes symptoms and diagnosis of cancer 7 To study causes symptoms and diagnosis of AIDS 8 To study the applications and importance of Biotechnology 9 At the time of COVID 19 what kind of problems did your acquaintance have to face when he got covid 10 To study DRUG ABUSE 11 Name the medicinal drugs which are banned all over the world 12 Describe the response of biotic factors to abiotic factors in the environment 13 Biodiversity and Conservation Practices in Indian Culture 14 What has been the effect on pollution control after covid 15 To study Management of sewage and waste materials 16 To study the role of micro organisms in human welfare 17 To study about harmful micro organisms VIVA VOCE FOR PRACTICE **Biology Lab Manual Class XII | As per the latest CBSE syllabus and other State Board following the curriculum of CBSE.**

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