

- Nociceptive, 795, 801
 impulses, 832
 reflex, 825
- Noeud vital, 327
- Nonelectrolytes, 16
- Nonthreshold substances, 512
- Normal acid, 22
- Normoblasts, 93
- Nuclease, 638
- Nucleic acid, 637, 689
- Nuclein ferments, 90
- Nucleins, 637
- Nucleoside, 638
- Nucleotide, 638
- Nystagmus, 871, 875
- O
- Obesity, Banting cure for, 571
- Oleic acid, 868
- Olein, 868
- Opsonins, 70
- Organs, loss of weight during starvation, 568
 perfusion of, 618
- Ornithine, 616, 631
- Ornithuric acid, 631
- Orthopnea, 313, 318
- Oscillatory method of blood pressure, 130
- Osmometer, 5, 230
- Osmosis, 4
- Osmotic pressure, 10
 and formation of lymph, 13
 and hemolysis, 7
 and plasmolysis, 8
 measurement by depression of freezing point, 11
 in physiologic mechanisms, 13
 in production of urine by kidneys, 14
 of transfusates, 141
- Ovalbumin, as food, 577
- Oxovitelin, as food, 577
- Oxidases, 82
- Oxidation of blood, 387
- Oxybutyric acid, 616, 683, 709
- Oxygen:
 coefficient of oxidation, 393
 determination of, 562
 estimation in blood, 390
 requirements of tissues, 393
 tension in alveolar air, 340, 344
 tension in arterial blood, 337
 transportation by blood, 379
 volume percentage in blood, 390
- Oxygen insufficiency, and periodic breathing, 373
 effect of, on respiration, 350, 359
- Oxygen supply of heart, 161
- Oxyproteic acid, 629
- P
- Pachionian body, 249
- Pain:
 sensation of, 832
- Pain, sensation of—Cont'd
 transmission in cord, 830
 sense, 795
- Palatability, 593
- Palmitic acid, 686, 707
- Pancreas:
 hormone control of, 420
 histologic changes of, 429
 oxygen requirements, 396
 nervous control of, 427
 sugar metabolism and, 678
- Pancreatic diabetes, 678
- Pancreatic digestion, 189
- Pancreatic juice, 441
 and fat digestion, 690
 secretion of, 420, 426
- Pancreatin, 490
- Parasympathetic system, 882
- Paroxysmal tachycardia, 269, 278
- Partial dissociation, 271
- Partial pressure of gases, 336
- Pathways, sensory, in spinal cord, 830
- Pelvic ganglionic group, 878
- Pentose, 664
- Pepsin, action of, 485
 products of, 486
- Pepsinogen, 485
- Peptides, 601
- Peptone, 105, 486
- Perception, 861
- Perfusion, of kidney, 631
 of liver, 618
- Perfusion fluid, of heart, 165
- Perfusion of heart, 161
- Periodic breathing, causes of, 372
 types of, 371
- Peripheral resistance, 134, 229
- Peristalsis:
 in esophagus, 446
 in large intestine, 468
 in small intestine, 465
 in stomach, 453, 456
- Peristaltic rush, 466, 470
- Peristaltic wave, 465
- Pernicious anemia, energy output in, 542
- Peroxidases, 82
- Ph, 27
- Phagocytes, 97
- Phenaceturic acid, 710
- Phenol, 501
 acetic acid, 502
 phthalein, 482, 525
 glycolic acid, 631, 710
- Phenylalanine, 604
- Phenyl group, 604
- Phlorhizin, 664, 665
- Phosphates, excretion of, 47
- Phosphate solutions for H-ion, 31
- Phosphates of urine, 532
- Phospholipins, 689
 in bile, 498
- Phrenic center, 328
- Physicochemical basis, 1