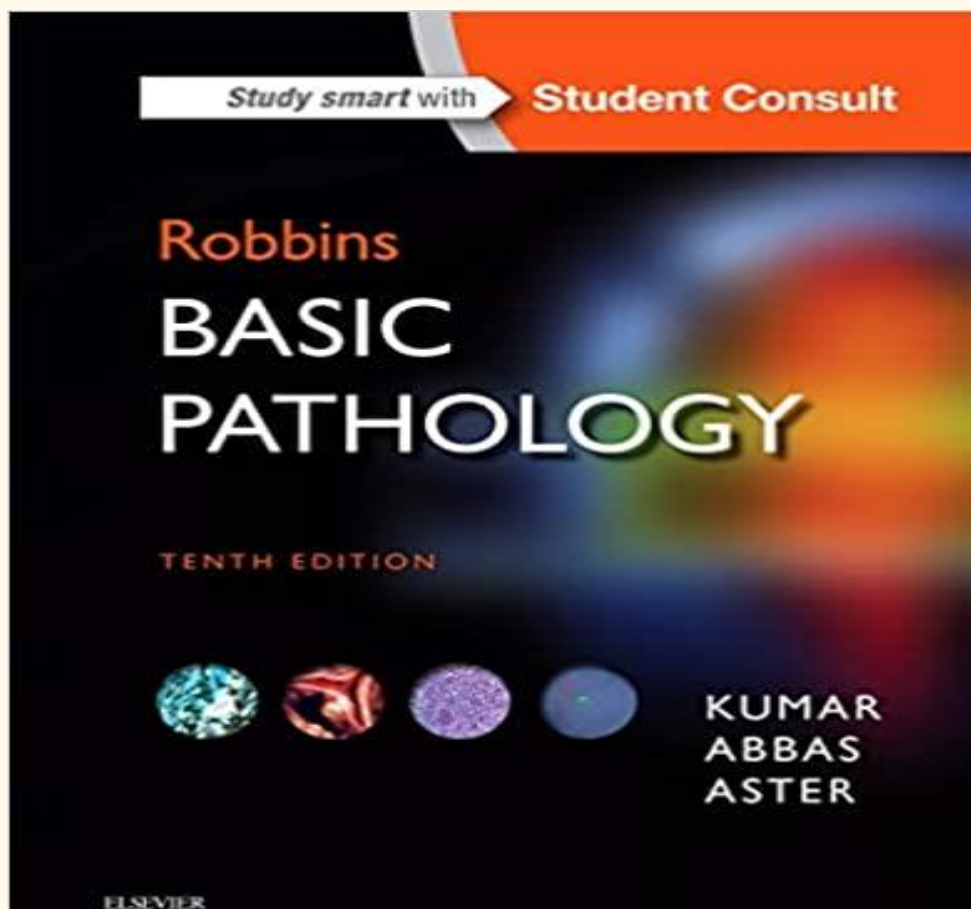


# TEST BANK

# ROBBINS BASIC PATHOLOGY

10TH EDITION

By: Kumar, Abbas, Aster



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## **Robbins: Basic Pathology 10th Edition Kymar Abbas Test Bank**

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### **Table of Contents**

---

Chapter 1. The Cell as a Unit of Health and Disease

---

Chapter 2. Cell Injury, Cell Death, and Adaptations

---

Chapter 3. Inflammation and Repair

---

Chapter 4. Hemodynamic Disorders, Thromboembolism, and Shock

---

Chapter 5 Diseases of the Immune System

---

Chapter 6 Neoplasia

---

Chapter 7. Genetic and Pediatric Diseases

---

Chapter 8. Environmental and Nutritional Diseases

---

Chapter 9. General Pathology of Infectious Diseases

---

Chapter 10. Blood Vessels

---

Chapter 11. Heart

---

Chapter 12. Hematopoietic and Lymphoid Systems

---

Chapter 13. Lung

---

Chapter 14. Kidney and Its Collecting System

---

Chapter 15. Oral Cavities and Gastrointestinal Tract

---

Chapter 16. Liver and Gallbladder

---

Chapter 17. Pancreas

---

Chapter 18. Male Genital System and Lower Urinary Tract

---

Chapter 19. Female Genital System and Breast

---

Chapter 20. Endocrine System

---

Chapter 21. Bones, Joints, and Soft Tissue Tumors

---

Chapter 22. Peripheral Nerves and Muscles

---

Chapter 23. Central Nervous System

---

Chapter 24. Skin

---

**Robbins: Basic Pathology 10th Edition Kymar Abbas Test Bank****Chapter 1. The Cell as A Unit Of Health And Disease**

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1	The Nucleus_____, Which Is Essential For Function And Survival Of The Cell.	
A)		Is The Site Of Protein Synthesis
B)		Contains The Genetic Code
C)		Transforms Cellular Energy
D)		Initiates Aerobic Metabolism
2	Although Energy Is Not Made In Mitochondria, They Are Known As The Power Plants Of The Cell Because They:	
A)		Contain RNA For Protein Synthesis.
B)		Utilize Glycolysis For Oxidative Energy.
C)		Extract Energy From Organic Compounds.
D)		Store Calcium Bonds For Muscle Contractions.
3	Although The Basic Structure Of The Cell Plasma Membrane Is Formed By A Lipid Bilayer, Most Of The Specific Membrane Functions Are Carried Out By:	
A)		Bound And Transmembrane Proteins.
B)		Complex, Long Carbohydrate Chains.
C)		Surface Antigens And Hormone Receptors.
D)		A Gating System Of Selective Ion Channels.
4	To Effectively Relay Signals, Cell-To-Cell Communication Utilizes Chemical Messenger Systems That:	
A)		Displace Surface Receptor Proteins.
B)		Accumulate Within Cell Gap Junctions.
C)		Bind To Contractile Microfilaments.
D)		Release Secretions Into Extracellular Fluid.

5	Aerobic Metabolism, Also Known As Oxidative Metabolism, Provides Energy By:	
A)		Removing The Phosphate Bonds From ATP.
B)		Combining Hydrogen And Oxygen To Form Water.
C)		Activating Pyruvate Stored In The Cytoplasm.
D)		Breaking Down Glucose To Form Lactic Acid.
6	Exocytosis, The Reverse Of Endocytosis, Is Important In _____ Into The Extracellular Fluid.	
A)		Engulfing And Ingesting Fluid And Proteins For Transport
B)		Killing, Degrading, And Dissolving Harmful Microorganisms
C)		Removing Cellular Debris And Releasing Synthesized Substances
D)		Destruction Of Particles By Lysosomal Enzymes For Secretion
7	The Process Responsible For Generating And Conducting Membrane Potentials Is:	
A)		Diffusion Of Current-Carrying Ions.
B)		Millivoltage Of Electrical Potential.
C)		Polarization Of Charged Particles.
D)		Ion Channel Neurotransmission.
8	Epithelial Tissues Are Classified According To The Shape Of The Cells And The Number Of Layers. Which Of The Following Is A Correctly Matched Description And Type Of Epithelial Tissue?	
A)		Simple Epithelium: Cells In Contact With Intercellular Matrix; Some Do Not Extend To Surface

B)	Stratified Epithelium: Single Layer Of Cells; All Cells Rest On Basement Membrane
C)	Glandular Epithelium: Arise From Surface Epithelia And Underlying Connective Tissue
D)	Pseudostratified Epithelium: Multiple Layers Of Cells; Deepest Layer Rests On Basement Membrane
9	Connective Tissue Contains Fibroblasts That Are Responsible For:
A)	Providing A Fibrous Framework For Capillaries.
B)	Synthesis Of Collagen, Elastin, And Reticular Fibers.
C)	Forming Tendons And The Fascia That Covers Muscles.
D)	Filling Spaces Between Tissues To Keep Organs In Place.
10	Although All Muscle Tissue Cells Have Some Similarities, Smooth Muscle (Also Known As Involuntary Muscle) Differs By:
A)	Having Dense Bodies Attached To Actin Filaments.
B)	Containing Sarcomeres Between Z Lines And M Bands.
C)	Having Rapid Contractions And Abundant Cross-Striations.
D)	Contracting In Response To Increased Intracellular Calcium.
11	Which Of The Following Aspects Of The Function Of The Nucleus Is Performed By Ribosomal RNA (Rrna)?
A)	Copying And Carrying DNA Instructions For Protein Synthesis

B)	Carrying Amino Acids To The Site Of Protein Synthesis
C)	Providing The Site Where Protein Synthesis Occurs
D)	Regulating And Controlling Protein Synthesis
12	Breakdown And Removal Of Foreign Substances And Worn-Out Cell Parts Are Performed By Which Of The Following Organelles?
A)	Lysosomes
B)	Golgi Apparatus
C)	Ribosomes
D)	Endoplasmic Reticulum (ER)
13	Impairment In The Function Of Peroxisomes Would Result In:
A)	Inadequate Sites For Protein Synthesis.
B)	An Inability To Transport Cellular Products Across The Cell Membrane.
C)	Insufficient Energy Production Within A Cell.
D)	Accumulation Of Free Radicals In The Cytoplasm.
14	After Several Months Of Trying To Conceive, A Couple Is Undergoing Fertility Testing. Semen Analysis Indicates That The Mans Sperm Have Decreased Motility, A Finding That Is Thought To Underlie The Couples Inability To Become Pregnant. Which Of The Following Cellular Components May Be Defective Within The Mans Sperm?
A)	Ribosomes
B)	Microtubules
C)	Mitochondria
D)	Microfilaments

15	Which Of The Following Statements Is True Of Glycolysis?
A)	Glycolysis Requires Oxygen.
B)	Glycolysis Occurs In Cells Without Mitochondria.
C)	Glycolysis Provides The Majority Of The BodysEnergy Needs.
D)	Glycolysis Produces Energy, Water, And CarbonDioxide.
16	Which Of The Following Membrane Transport MechanismsRequires The Greatest Amount Of Energy?
A)	Facilitated Diffusion
B)	Passive Transport
C)	Vesicular Transport
D)	Simple Diffusion
17	A Male Patient With A Diagnosis Of Type 1 Diabetes Mellitus Is Experiencing Hyperglycemia Because He Lacks Sufficient Insulin To Increase The Availability Of Glucose Transporters In His Cell Membranes. Consequently, His Cells Lack Intracellular Glucose And It Accumulates In His Blood. Which Of The Following Processes Would Best Allow Glucose To Cross His CellMembranes?
A)	Facilitated Diffusion
B)	Simple Diffusion
C)	Secondary Active Transport
D)	Endocytosis
18	Which Of The Following Statements Is True Of Skeletal MuscleCells?
A)	Skeletal Muscle Cells Each Have An Apical,Lateral, And Basal Surface.