TD 1/2/3 CHAPITRE 1 — TCE L1 SNV

Exercise 1: Decompose the following words

Identify the prefix, root, and suffix where applicable, then give the meaning of each word.

- Biology
- Cytology
- Hematology
- Neurology
- Hepatitis
- Gastritis
- Hypoglycemia
- Hyperthermia
- Appendectomy
- Osteoporosis

Answers Exercise 1

- Biology = bio (life) + logy (study of).
- Cytology = cyt/o (cell) + logy (study of).
- Hematology = hemat/o (blood) + logy (study of).
- Neurology = neur/o (nerve) + logy (study of).
- Hepatitis = hepat (liver) + itis (inflammation).
- Gastritis = gastr (stomach) + itis (inflammation).
- Hypoglycemia = hypo (low) + glyc (sugar) + emia (blood condition).
- Hyperthermia = hyper (excessive) + therm (heat) + ia (condition).
- Appendectomy = append (appendix) + ectomy (surgical removal).
- Osteoporosis = oste/o (bone) + por/o (pore) + -osis (condition).

Exercise 2: Match each word part with its meaning

1. Osteo-
   - Blood
   - Bone
   - Cell
2. Dermato-
   - Skin
   - Liver
   - Nerve
3. -itis
   - Study of
   - Inflammation
   - Surgical removal
4. Nephro-
   - Kidney
   - Heart
   - Lung
5. Cardio-
   - Brain
   - Heart

- Stomach

6. -logy
   - Pain
   - Disease
   - Study of
7. Pulmon/o
   - Lung
   - Bone
   - Blood
8. Hyper-
   - Below normal
   - Above normal
   - Without
   - Check answersReset

Answers Exercise 2: Matching Word Parts

1. Osteo- → Bone
2. Dermato- → Skin
3. -itis → Inflammation
4. Nephro- → Kidney
5. Cardio- → Heart
6. -logy → Study of
7. Pulmon/o → Lung
8. Hyper- → Above normal / excessive

Exercise 3: Break down the terms

Complete the table by identifying the word parts and their meanings.

Scientific term	Word parts	Meaning
1. Leukocyte		
2. Erythrocyte		
3. Osteology		
4. Cardiomegaly		
5. Nephritis		
6. Dermatology		
7. Hypothermia		
8. Electrocardiogram		

ANSWERS Exercise 3:

1. Leukocyte = leuk/o (white) + -cyte (cell): white blood cell.
2. Erythrocyte = erythr/o (red) + -cyte (cell): red blood cell.
3. Osteology = oste/o (bone) + logy (study): study of bones.
4. Cardiomegaly = cardi/o (heart) + megaly (enlargement): enlargement of the heart.
5. Nephritis = nephr (kidney) + itis (inflammation): kidney inflammation.
6. Dermatology = dermat/o (skin) + logy (study): study of the skin.
7. Hypothermia = hypo (low) + therm (heat) + ia (condition): abnormally low body temperature.
8. Electrocardiogram = electr/o (electricity) + cardi/o (heart) + gram (record): recording of the heart's electrical activity

Exercise 4: Find the meaning

Write the scientific term that corresponds to each definition

1. Study of cells: _____
2. Inflammation of the liver: _____
3. Study of the kidneys: _____
4. Abnormally high body temperature: _____
5. A white blood cell: _____
6. A red blood cell: _____
7. Enlargement of the heart: _____
8. Inflammation of the kidney: _____

ANSWERS Exercise 4

1. Cytology
2. Hepatitis
3. Nephrology
4. Hyperthermia
5. Leukocyte
6. Erythrocyte
7. Cardiomegaly
8. Nephritis

Exercise 5: Find the meaning

Write the correct scientific term for each definition.

1. Study of tissues: _____
2. Inflammation of the stomach: _____
3. Abnormally slow heart rate: _____
4. Study of the nervous system: _____
5. Surgical removal of the kidney: _____
6. Abnormally high blood glucose: _____
7. Inflammation of the skin: _____
8. Study of microorganisms: _____

ANSWERS Exercise 5

1. Histology
2. Gastritis
3. Bradycardia
4. Neurology
5. Nephrectomy
6. Hyperglycemia
7. Dermatitis
8. Microbiology

Exercise 6 — Decompose the scientific terms

No.	Scientific term	Prefix	Root(s)	Suffix
1	Hyperparathyroidism	?	?	?
2	Electroencephalography	?	?	?
3	Polyneuropathy	?	?	?
4	Thrombocytopenia	?	?	?
5	Glomerulonephritis	?	?	?
6	Osteochondritis	?	?	?
7	Cardiomyopathy	?	?	?
8	Hematopoiesis	?	?	?
9	Immunodeficiency	?	?	?
10	Gastroenterology	?	?	?

ANSWERS Exercise 6 — Decomposition of scientific terms

No.	Scientific term	Prefix	Root(s)	Suffix	Meaning
1	Hyperparathyroidism	Hyper-	Parathyroid	-ism	Excessive activity of the parathyroid glands
2	Electroencephalography	—	Electr/o + encephal/o	-graphy	Process of recording the brain's electrical activity
3	Polyneuropathy	Poly-	Neur/o	-pathy	Disease affecting multiple peripheral nerves
4	Thrombocytopenia	—	Thromb/o + cyt/o	-penia	Abnormally low platelet count
5	Glomerulonephritis	—	Glomerul/o + nephr/o	-itis	Inflammation affecting the kidney glomeruli
6	Osteochondritis	—	Oste/o + chondr/o	-itis	Inflammation involving bone and cartilage
7	Cardiomyopathy	—	Cardi/o + my/o	-pathy	Disease of the heart muscle
8	Hematopoiesis	—	Hemat/o	-poiesis	Formation of blood cells
9	Immunodeficiency	—	Immun/o + deficiency	—	Insufficient immune function
10	Gastroenterology	—	Gastr/o + enter/o	-logy	Study of the stomach and intestines

Exercise 7 — Decompose the terms into their smallest meaningful parts
For each word, identify the word parts and give the complete definition.

1. Hypercholesterolemia
2. Leukocytosis
3. Erythropoiesis
4. Encephalomyelitis
5. Lymphocytopenia
6. Otorhinolaryngology
7. Spondyloarthropathy
8. Pancreaticoduodenectomy

ANSWERS Exercise 7 — Decomposition into meaningful parts

Scientific term	Prefix	Root(s)	Suffix	Complete definition in English	French translation and meaning	Arabic translation and meaning
Hypercholesterolemia	hyper- — excessive	cholesterol — cholesterol	-emia — blood condition	Abnormally high cholesterol levels in the blood.	Hypercholestérolémie — taux anormalement élevé de cholestérol dans le sang.	ارتفاع — الدم كوليسترول فرط مستوى في طبيعي غير الدم في الكوليسترول.
Leukocytosis	None	leuk/o — white; cyt/o — cell	-osis — condition or increase	An increase in the number of white blood cells in the blood.	Leucocytose — augmentation du nombre de leucocytes dans le sang.	زيادة — البيضاء الكريات كثرة الدم في البيضاء الدم كريات عدد.
Erythropoiesis	None	erythr/o — red	-poiesis — formation or production	The process of producing red blood cells, mainly in the bone marrow.	Érythropoïèse — processus de production des globules rouges, principalement dans la moelle osseuse.	— الحمراء الدم كريات تكوّن الحمراء، الدم كريات إنتاج عملية العظم نخاع في أساسًا.
Encephalomyelitis	None	encephal/o — brain; myel/o — spinal cord	-itis — inflammation	Inflammation involving the brain and spinal cord.	Encéphalomyélite — inflammation touchant le cerveau et la moelle épinière.	— الشوكي والنخاع الدماغ التهاب والنخاع الدماغ يصيب التهاب الشوكي.
Lymphocytopenia	None	lymph/o — lymph; cyt/o — cell	-penia — deficiency or decrease	An abnormally low number of lymphocytes in the blood.	Lymphocytopénie — diminution anormale du nombre de lymphocytes dans le sang.	انخفاض — اللمفاوية الخلايا نقص الخلايا عدد في طبيعي غير الدم في اللمفاوية.
Otorhinolaryngology	None	ot/o — ear; rhin/o — nose; laryng/o — larynx	-logy — study or specialty	The medical specialty dealing with disorders of the ear, nose, and throat.	Oto-rhino-laryngologie — spécialité médicale consacrée aux maladies de l'oreille, du nez et de la gorge.	— والحنجرة والأذن الأنف طب بتشخيص يهتم طبي تخصص والحنجرة والأنف الأذن أمراض وعلاجها.
Spondyloarthropathy	None	spondyl/o — vertebra; arthr/o — joint	-pathy — disease or disorder	A disorder affecting joints associated with the spine; often used for inflammatory rheumatic diseases.	Spondyloarthropathie — affection touchant les articulations liées à la colonne vertébrale, notamment dans certaines maladies rhumatismales inflammatoires.	— الفقارية المفاصل اعتلال المفاصل يصيب اضطراب وقد الفقري، بالعمود المرتبطة روماتيزمية أمراض ضمن يكون التهابية.
Pancreaticoduodenectomy	None	pancreat — pancreas; duoden — duodenum	-ic — pertaining to; -ectomy — surgical removal	Surgery that removes the head of the pancreas and the duodenum, often along with nearby structures.	Pancréatoduodénectomie — intervention chirurgicale consistant généralement à retirer la tête du pancréas et le duodénum, parfois avec des structures voisines.	عشر والاثني البنكرياس استئصال تُزال جراحية عملية — جراحيًا والاثنا البنكرياس رأس عادةً فيها مجاورة أنسجة تشمل وقد عشر،

Exercise 8 — Challenge: identify the meaning from the word parts

1. Erythropoiesis
   - Destruction of white blood cells
   - Formation of red blood cells
   - Inflammation of bone
2. Polyneuropathy
   - Disease affecting multiple nerves
   - Inflammation of the liver
   - Low blood glucose
3. Gastroenterology
   - Study of the heart and lungs
   - Study of the stomach and intestines
   - Study of blood cells
4. Thrombocytopenia
   - High red blood cell count
   - Low platelet count
   - Inflammation of blood vessels
5. Cardiomyopathy
   - Disease of the heart muscle
   - Study of blood
   - Enlargement of the kidneys

ANSWERS Exercise 8 — Challenge answers

1. Thrombocytopenia: Low platelet count.
2. Cardiomyopathy: Disease of the heart muscle.
3. Erythropoiesis: Formation of red blood cells.
4. Polyneuropathy: Disease affecting multiple nerves.
5. Gastroenterology: Study of the stomach and intestines.

Exercise 9 — Decomposition of Scientific Biological Words

Complete the table by identifying the prefix, root, combining form, combining vowel, suffix, and meaning.

Scientific term	Prefix	Root(s)	Combining form(s)	Combining vowel(s)	Suffix	Meaning
1. Polyneuropathy						
2. Hypercholesterolemia						
3. Electrocardiography						
4. Gastroenterology						
5. Thrombocytopenia						

ANSWERS Exercise 9 — Complete Answer Table

No.	Scientific term	Prefix and meaning	Root(s) and meaning	Suffix and meaning	Complete definition in English	French translation and meaning	Arabic translation and meaning
1	Polyneuropathy	poly- — many, multiple	neur/o — nerve	-pathy — disease or disorder	A disorder affecting multiple peripheral nerves, potentially causing weakness, numbness, tingling, or pain.	Polyneuropathie — maladie touchant plusieurs nerfs périphériques, pouvant provoquer une faiblesse, des engourdissements, des fourmillements ou des douleurs.	المتعدد الأعصاب اعتلال عدة يصيب مرض — وقد طرفية، أعصاب الخدر أو الضعف يسبب .الألم أو التنميل أو
2	Hypercholesterolemia	hyper- — excessive, above normal	cholesterol — cholesterol	-emia — blood condition	An abnormally high level of cholesterol in the blood.	Hypercholestérolémie — taux anormalement élevé de cholestérol dans le sang.	— الدم كوليسترول فرط في طبيعي غير ارتفاع في الكوليسترول مستوى .الدم
3	Electrocardiography	None	electr/o — electricity; cardi/o — heart	-graphy — process of recording	The process of recording the electrical activity of the heart, usually to assess heart rhythm and detect cardiac abnormalities.	Électrocardiographie — procédé d'enregistrement de l'activité électrique du cœur, utilisé notamment pour évaluer le rythme cardiaque et détecter des anomalies.	القلب كهربائية تخطيط النشاط تسجيل عملية — للقلب، الكهربائي القلب نظم لتقييم وتُستخدم بعض عن والكشف .القلبية الاضطرابات
4	Gastroenterology	None	gastr/o — stomach; enter/o — intestine	-logy — study or medical specialty	The medical specialty concerned with the digestive system, including the stomach, intestines, and related organs.	Gastro-entérologie — spécialité médicale consacrée à l'appareil digestif, notamment l'estomac, les intestins et les organes associés.	— الهضمي الجهاز طب يهتم طبي تخصص في بما الهضمي، بالجهاز والأمعاء المعدة ذلك .بهما المرتبطة والأعضاء
5	Thrombocytopenia	None	thromb/o — clot; cyt/o — cell	-penia — deficiency, abnormally low number	An abnormally low platelet count in the blood, which may increase the risk of bleeding.	Thrombocytopénie — diminution anormale du nombre de plaquettes sanguines, pouvant augmenter le risque de saignement.	— الدموية الصفيحات قلة في طبيعي غير انخفاض الدموية، الصفائح عدد .النزيف خطر يزيد قد مما

Exercise 10 — Advanced Decomposition

Decompose each term into its meaningful parts and explain its meaning.

Scientific term	Prefix	Root(s)	Combining form(s)	Combining vowel(s)	Suffix	Meaning
1. Endocarditis						
2. Osteoarthropathy						
3. Hypoparathyroidism						
4. Neuroendocrinology						
5. Hematopoietic						
6. Pericardiectomy						
7. Encephalomyelitis						
8. Microangiopathy						

ANSWERS Exercise 10 — Complete Answer Table

Scientific term	Prefix and meaning	Root(s) and meaning	Suffix and meaning	Complete definition in English	French translation and meaning	Arabic translation and meaning
Endocarditis	endo- — within, inner	cardi/o — heart	-itis — inflammation	Inflammation of the endocardium, the inner lining of the heart.	Endocardite — inflammation de l'endocarde, la membrane qui tapisse l'intérieur du cœur.	القلب شغاف التهاب — للقلب الداخلية البطانة التهاب.
Osteoarthropathy	None	oste/o — bone; arthr/o — joint	-pathy — disease or disorder	A disease or disorder affecting bones and joints.	Ostéoarthropathie — maladie ou affection touchant les os et les articulations.	والمفاصل العظام اعتلال — يصيب اضطراب أو مرض والمفاصل العظام.
Hypoparathyroidism	hypo- — below normal, deficient	para- — beside; thyroid — thyroid gland	-ism — condition or disorder	A disorder caused by insufficient parathyroid hormone production or action, often resulting in low blood calcium.	Hypoparathyroïdie — trouble lié à une production ou à une action insuffisante de l'hormone parathyroïdienne, souvent associé à une baisse du calcium sanguin.	الدرقية جارات قصور — نقص عن ناتج اضطراب الدرقية جارات هرمون إنتاج إلى يؤدي ما وغالبًا فعاليته، أو الدم في الكالسيوم انخفاض.
Neuroendocrinology	None	neur/o — nerve, nervous system; endo- — within; crin/o — secrete, release	-logy — study or medical specialty	The field studying interactions between the nervous system and the endocrine system.	Neuroendocrinologie — discipline étudiant les interactions entre le système nerveux et le système endocrinien.	العصبي الصماء الغدد علم — بين التفاعلات يدرس علم الغدد وجهاز العصبي الجهاز الصماء.
Hematopoietic	None	hemat/o — blood; poiet — make, produce	-ic — pertaining to	Relating to the formation and production of blood cells.	Hématopoïétique — relatif à la formation et à la production des cellules sanguines.	بتكوين متعلق — للدم مُكوّن وإنتاجها الدم خلايا.
Pericardiectomy	peri- — around	cardi/o — heart	-ectomy — surgical removal	Surgical removal of part or all of the pericardium, the sac surrounding the heart.	Péricardiectomie — ablation chirurgicale d'une partie ou de la totalité du péricarde, l'enveloppe qui entoure le cœur.	جراحيًا التامور استئصال — التامور غشاء من جزء إزالة إزالته أو بالقلب المحيط بالكامل.
Encephalomyelitis	None	encephal/o — brain; myel/o — spinal cord in this term	-itis — inflammation	Inflammation involving the brain and spinal cord.	Encéphalomyélite — inflammation touchant le cerveau et la moelle épinière.	والنخاع الدماغ التهاب يصيب التهاب — الشوكي الشوكي والنخاع الدماغ.
Microangiopathy	micro- — small	angi/o — blood vessel	-pathy — disease or disorder	A disorder affecting small blood vessels, potentially impairing blood flow to tissues.	Microangiopathie — maladie touchant les petits vaisseaux sanguins et pouvant perturber l'irrigation des tissus.	الدقيقة الدموية الأوعية اعتلال الأوعية يصيب اضطراب — في يؤثر وقد الصغيرة الدموية الأنسجة إلى الدم وصول.

Exercise 11 — Complete the decomposition table
Analyze each word and fill in the missing elements.

Scientific term	Prefix	Root(s)	Combining form(s)	Combining vowel(s)	Suffix
1. Pharmacokinetics					
2. Cytogenetics					
3. Rhinopharyngitis					
4. Oligodendrocyte					
5. Bronchiectasis					
6. Retinopathy					
7. Cholecystolithiasis					
8. Sialadenectomy					
9. Karyotyping					
10. Melanogenesis					

ANSWERS Exercise 11

No.	Scientific term	Prefix and meaning	Root(s) and meaning	Suffix and meaning	Complete definition in English	French translation and meaning	Arabic translation and meaning
1	Pharmacokinetics		pharmac/o — drug, medicine; kinet — movement	-ics — field of study or science	The study of how the body absorbs, distributes, metabolizes, and eliminates a drug (ADME).	Pharmacocinétique — étude de l'absorption, de la distribution, du métabolisme et de l'élimination d'un médicament par l'organisme.	الدواء — حركية امتصاص دراسة وتوزيعه الدواء وإطراحه واستقلابه الجسم من.
2	Cytogenetics		cyt/o — cell; gen — origin, formation, heredity	-etics — field of study	The branch of genetics that studies chromosomes, their structure, function, and relationship to heredity and disease.	Cytogénétique — branche de la génétique qui étudie les chromosomes, leur structure, leur fonction et leurs liens avec l'hérédité et les maladies.	الخلوية الوراثة علم علم من فرع — يدرس الوراثة وبنيتها الصبغيات وعلاقتها ووظيفتها بالوراثة والأمراض.
3	Rhinopharyngitis		rhin/o — nose; pharyng/o — pharynx	-itis — inflammation	Inflammation involving the nasal cavity and the pharynx, commonly associated with an upper respiratory tract infection.	Rhinopharyngite — inflammation des fosses nasales et du pharynx، souvent associée à une infection des voies respiratoires supérieures.	الأنف التهاب التهاب — والبلعوم التجويف يصيب والبلعوم، الأنفي يرتبط ما وغالبًا الجهاز بعدوى العلوي التنفسي.
4	Oligodendrocyte	oligo- — few, little	dendr/o — tree, branching; cyt/o — cell	No separate suffix in the usual breakdown; -cyte means cell	A type of glial cell in the central nervous system that produces and maintains the myelin sheath around nerve fibers.	Oligodendrocyte — cellule gliale du système nerveux central qui produit et entretient la gaine de myéline autour des fibres nerveuses.	التغصّن قليلة — في دبقية خلية العصبي الجهاز غمد تُنتج المركزي المحيط الميالين العصبية بالألياف عليه وتحافظ.
5	Bronchiectasis		bronch/o — bronchus, airway	-ectasis — dilation, expansion	Permanent abnormal widening of the bronchi, often associated with recurrent infections and impaired mucus clearance.	Bronchectasie — dilatation anormale et permanente des bronches، souvent associée à des infections répétées et à une mauvaise évacuation du mucus.	القصبات توسّع — طبيعي غير اتساع القصبات، في ودائم بالعدوى يرتبط وقد وصعوبة المتكررة المخاط إخراج.

ANSWERS Exercise 11

No.	Scientific term	Prefix and meaning	Root(s) and meaning	Suffix and meaning	Complete definition in English	French translation and meaning	Arabic translation and meaning
1	Retinopathy		retin/o — retina	-pathy — disease or disorder	Any disease or disorder affecting the retina, the light-sensitive tissue at the back of the eye.	Rétinopathie — maladie ou affection touchant la rétine, tissu sensible à la lumière situé au fond de l'œil.	الشبكية اعتلال — اضطراب أو مرض العين، شبكية يصيب الحساس النسيج وهي الخلفي الجزء في للضوء العين من.
2	Cholecystolithiasis		chol/e — bile; cyst/o — bladder or sac, here gallbladder; lith/o — stone	-iasis — pathological condition or presence	The presence of stones in the gallbladder (gallstones).	Cholécystolithiase — présence de calculs dans la vésicule biliaire.	المرارة تحصّي — داخل حصوات وجود المرارة.
3	Sialadenectomy		sial/o — saliva; aden — gland	-ectomy — surgical removal	Surgical removal of a salivary gland, either partially or completely.	Sialadénectomie — ablation chirurgicale partielle ou totale d'une glande salivaire.	اللعابية الغدة استئصال غدة إزالة — جراحيًا كليًا أو جزئيًا لعابية جراحية بعملية.
4	Karyotyping		kary/o — nucleus; chromosome complement	-type — classification or arrangement; -ing — process	The process of examining and arranging chromosomes to assess their number and structure.	Caryotypage — procédé d'examen et de classement des chromosomes afin d'évaluer leur nombre et leur structure.	عملية — النووي التنميط الصبغيات فحص عددها لتقييم وترتيبها وبنيتها.
5	Melanogenesis		melan/o — black, dark pigment; gen — formation, production	-esis — process or formation	The process by which melanin pigment is produced, mainly by melanocytes.	Mélanogenèse — processus de production de la mélanine, principalement par les mélanocytes.	عملية — الميلانين تكوّن الميلانين، صبغة إنتاج الخلايا في أساسًا وتحدث الميلانينية.

Exercise 12 — Discover the meaning from the word parts
Match each scientific term to the correct definition.

1. Cholelithiasis
- A. Absence of sperm in semen
- B. Presence of gallstones
- C. Abnormal softening of bones
- D. Bleeding from the spleen
- E. Relating to peroxisomes, cell organelles involved in metabolism
- F. Difficulty swallowing

2. Splenorrhagia
- A. Absence of sperm in semen
- B. Presence of gallstones
- C. Abnormal softening of bones
- D. Bleeding from the spleen
- E. Relating to peroxisomes, cell organelles involved in metabolism
- F. Difficulty swallowing

3. Azoospermia
- A. Absence of sperm in semen
- B. Presence of gallstones

- C. Abnormal softening of bones
- D. Bleeding from the spleen
- E. Relating to peroxisomes, cell organelles involved in metabolism
- F. Difficulty swallowing

4. Osteomalacia
- A. Absence of sperm in semen
- B. Presence of gallstones
- C. Abnormal softening of bones
- D. Bleeding from the spleen
- E. Relating to peroxisomes, cell organelles involved in metabolism
- F. Difficulty swallowing

5. Dysphagia
- A. Absence of sperm in semen
- B. Presence of gallstones
- C. Abnormal softening of bones
- D. Bleeding from the spleen
- E. Relating to peroxisomes, cell organelles involved in metabolism
- F. Difficulty swallowing

ANSWERS Exercise 12

1. Cholelithiasis — B Presence of gallstones
2. Splenorrhagia — D Bleeding from the spleen
3. Azoospermia — A Absence of sperm in semen
4. Osteomalacia — C Abnormal softening of bones
5. Dysphagia — F Difficulty swallowing

Exercise 13 — Build the scientific term

Use the word parts to construct the correct biological or medical term.

Definition	**Word parts**	**Your answer**
1. Surgical repair of a blood vessel	angi/o + -plasty	
2. Study of fungi	myc/o + -logy	
3. Inflammation of the urinary bladder	cyst/o + -itis	
4. Abnormal condition of pigmentation	dys- + chromat/o + -osis	
5. Recording of muscle electrical activity	my/o + electr/o + -graphy	
6. Surgical fixation of a kidney	nephr/o + -pexy	
7. Destruction of red blood cells	hem/o + -lysis	
8. Measurement of lung volume	spir/o + -metry	

ANSWERS Exercise 13

Definition	Word parts	Your answer	
Surgical repair of a blood vessel	angi/o + -plasty	Angioplasty	angi/o (blood vessel) + -plasty (surgical repair). A procedure used to widen or repair a blood vessel
Study of fungi	myc/o + -logy	Mycology	myc/o (fungus) + -logy (study of). The scientific study of fungi
Inflammation of the urinary bladder	cyst/o + -itis	Cystitis	cyst/o (urinary bladder) + -itis (inflammation). Inflammation of the urinary bladder.
Abnormal condition of pigmentation	dys- + chromat/o + -osis	Dyschromatosis	dys- (abnormal) + chromat/o (color or pigmentation) + -osis (condition). An abnormal condition of pigmentation.
Recording of muscle electrical activity	my/o + electr/o + -graphy	Electromyography	electr/o (electricity) + my/o (muscle) + -graphy (process of recording). Recording the electrical activity of muscles.
Surgical fixation of a kidney	nephr/o + -pexy	Nephropexy	nephr/o (kidney) + -pexy (surgical fixation). Surgical fixation of a kidney.
Destruction of red blood cells	hem/o + -lysis	Hemolysis	hem/o (blood) + -lysis (breakdown or destruction). Breakdown of red blood cells, releasing their contents.
Measurement of lung volume	spir/o + -metry	Spirometry	spir/o (breathing) + -metry (measurement). Measurement of respiratory function, including the volume of air inhaled and exhaled.

Exercise 14 — Identify the prefix, root and suffix

Some words contain more than one root. Decompose them carefully.

Scientific term	Prefix and meaning	Root(s) and meaning	Suffix and meaning	Overall meaning in English
1. Anticoagulant				
2. Endocytosis				
3. Bioluminescence				
4. Cryopreservation				
5. Photosensitivity				
6. Neurotransmission				

ANSWERS Exercise 14

Scientific term	Prefix and meaning	Root(s) and meaning	Suffix and meaning	Complete definition in English	French translation and meaning	Arabic translation and meaning
Anticoagulant	anti- — against, preventing	coagul — clotting, coagulation	-ant — agent or substance that performs an action	A substance that prevents or reduces blood coagulation, thereby limiting the formation or growth of blood clots.	Anticoagulant — substance qui empêche ou réduit la coagulation du sang et limite ainsi la formation ou l'extension des caillots.	تمنع مادة — التخثّر مضادّ مما منه، تقلّل أو الدم تخثّر أو الجلطات تكوّن من يحدّ نموّها.
Endocytosis	endo- — within, inside	cyt/o — cell	-osis — process or condition	The cellular process by which a cell takes substances into itself by enclosing them in membrane-bound vesicles.	Endocytose — processus par lequel une cellule fait entrer des substances en les entourant d'une membrane pour former des vésicules.	عملية — الخلوي الإدخال إلى مواد الخلية فيها تُدخل إحاطتها طريق عن داخلها حويصلات وتكوين بغشاء.
Bioluminescence	bio- — life, living organisms	lumin — light	-escence — process of becoming or producing	The production and emission of light by a living organism through a chemical reaction.	Bioluminescence — production et émission de lumière par un organisme vivant grâce à une réaction chimique.	الكائن إنتاج — الحيوي التألّق نتيجة وإصداره للضوء الحي كيميائي تفاعل.

Cryopreservation	cryo- — cold, low temperature	preserv — protect, maintain, conserve	-ation — process or action	The preservation of cells, tissues, embryos, or other biological materials at very low temperatures to maintain their viability for future use.	Cryoconservation — conservation de cellules, de tissus, d'embryons ou d'autres matériaux biologiques à très basse température afin de préserver leur viabilité.	حفظ — بالتبريد الحفظ الأجنة أو الأنسجة أو الخلايا المواد من غيرها أو حرارة درجات في البيولوجية على للمحافظة جدًا منخفضة حيويتها.
Photosensitivity	photo- — light	sens — feeling, perception, response	-ity — state or condition	The state of being unusually sensitive or responsive to light.	Photosensibilité — état caractérisé par une sensibilité accrue ou inhabituelle à la lumière.	حالة — للضوء الحساسية غير أو مفرطة باستجابة تتميز للضوء معتادة.
Neurotransmission	neuro- — nerve, nervous system	trans — across, from one place to another; miss — send	-ion — process or action	The process by which nerve cells communicate with other cells through electrical signals and chemical messengers called neurotransmitters.	Neurotransmission — processus par lequel les cellules nerveuses communiquent avec d'autres cellules grâce à des signaux électriques et à des messagers chimiques appelés neurotransmetteurs.	عملية — العصبي النقل مع العصبية الخلايا تواصل إشارات بواسطة أخرى خلايا كيميائية ورُسُل كهربائية العصبية النواقل تُسمّى.