Exercises 1-13 on Past Tenses and Mixed Verbal Tenses, Unit 2

Complete the following passage with the appropriate form of past simple or present perfect sometimes in its passive voice:

EXERCISE 1

The smallpox vaccine (1. to be) the first vaccine to be developed against a confer) immunity against the deadly smallpox virus. Cowpox (4. to serve) as a natural vaccine until the modern smallpox vaccine (5. to emerge) in the 19th century. From 1958 to 1977, the World Health Organization (6. to conduct) a global vaccination campaign that eradicate smallpox, making it the only human disease to be eradicated. Although routine smallpox vaccination is no longer performed on the general public, the

EXERCISE 2

vaccine is still being produced to guard against bioterrorism and biological warfare. **Ebola Virus Disease** (source: https://www.cdc.gov/) Risk of Exposure – Ebola viruses are found in several African countries. Ebola(1. first / to be discovered) in 1976 near the Ebola River in what is now the Democratic Republic of the Congo. Since then, outbreaks of Ebola among humans (2. to appear) sporadically in Africa. Healthcare providers caring for Ebola patients and family and friends in close contact with Ebola patients are at the highest risk of getting sick because they may come in contact with infected blood or body fluids. Ebola also can be spread through direct contact with objects (like clothes, bedding, needles, infected body fluids. Additionally, people can become sick with Ebola after coming in contact with infected wildlife. For example, in Africa, Ebola may spread as a result of handling bushmeat (wild animals hunted for food) and contact with infected bats. It is also possible that Ebola could be spread through sex or other contact with semen from men who (4. to survive) Ebola. Until more information is known, avoid contact with to have) Ebola. CDC and other public health partners are continuing to study Ebola transmission and will share what is known as it becomes available. Past Ebola Outbreaks - Past Ebola outbreaks (7. to occur) in the following countries: Democratic Republic of the Congo (DRC), Gabon, South Sudan, Ivory Coast, Uganda, Republic of the Congo (ROC), South Africa (imported). imported cases, including one death, and two locally acquired cases in healthcare workers (9. to be reported) in the United States.

EXERCISE 3

Carl Linnaeus – b: May 23, 1707; d: January 10, 1778 –
The establishment of universally accepted conventions for the naming of organisms
to be) Linnaeus' main contribution to taxonomy – his work marks the starting point of consistent use of
binomial nomenclature. During the 18 th century expansion of natural history knowledge, Linnaeus also (5. to develop) what
taxonomy – the system of scientific classification now widely used in the biological sciences.
The Linnaean system (7. to classify) nature within a nested hierarchy, starting with
three kingdoms. Kingdoms (8. to be divided) into Classes and they, in turn, into
Orders, and thence into Genera, which
of species he sometimes
Linnaeus' groupings (12. to be based) upon shared physical characteristics, and not
simply upon differences.
ERCISE 4
Europe's olive trees threatened by spread of deadly bacteria (source: www.theguardian.com)
Bacteria that is destroying ancient olive groves in the Apulia region of southern Italy is very likely to spread to other areas of Europe, says report.
A killer bacterium that (1. to affect) several thousand hectares of olive
plantations in the Apulia region of Italy is likely to spread to European olive trees, such as these in

EXERCISE 5

Bacteria	(1. first / to be obse	rved) by Antonie van Leeu	wenhoek in 1676, using a
	of his own design. He	• •	. •
(3. t	o publish) his observations in	a series of letters to the	Royal Society. The name
Bacterium	(4. to be introc	luced) much later, by Chris	stian Gottfried Ehrenberg
in 1828. In fact, Bacteri	<i>um</i> (5. to be) a	genus that	(6. to contain) non-
spore-forming rod-shap	ed bacteria, as opposed to	<i>Bacillus</i> , a genus of sp	oore-forming rod-shaped
bacteria defined by Ehre	enberg in 1835.		
Though it	(7. to be known) in the	nineteenth century that	bacteria are the cause of
many diseases, no effe	ctive antibacterial treatment	s (8. t	o be) available. In 1910,
Paul Ehrlich	(9. to develop) the	first antibiotic, by chang	ing dyes that selectively

EXERCISE 6

Complete the following passages with the appropriate form of *present simple*, *past simple* or *present perfect* – sometimes in its passive voice:

Exercise 7

Diabetes mellitus, often simply referred to as diabetes, (1. to be) a co	ondition in which a
person/an animal (2. to have) a high blood sugar (glucose) level as a	result of the body
either not producing enough insulin, or because body cells (3	3. not/ to respond/
properly) to the insulin that is produced.	
All forms of diabetes have been treatable since insulin (4. to	become) medically
available in 1921, but a cure (5. to be) difficult.	

Exercise 8

Pahine is a disease that	(1 to sausa) acuts	onconhalitic is inflammation of the
	•	encephalitis – i.e., inflammation of the
brain - in warm-blooded animals. It .	(2. to be)	zoonotic, most commonly by a bite from
an infected animal but occasionally b	y other forms of contact.	
Because of its potentially violent na	ture, rabies	(3. to be) known since 3500
B.C. Rabies	(4. to be) considered a	scourge for its prevalence in the 19th
century. Fear of rabies related to me	thods of transmissions	(5. to be) almost irrational;
however, this (6	to give) Louis Pasteur a	mple opportunity to test post-exposure
treatments from 1885.		

EXERCISE 9

Louis Pasteur (December 27, 1822 – September 28, 1895)
breakthroughs in the causes and preventions of disease. His discoveries
reduce) mortality from puerperal fever, and he (4. to create) the first vaccine for
rabies.
His experiments (5. to support) the germ theory of disease. He (6. / to
be) best known to the general public for inventing a method to stop milk and wine from causing sickness, a process that came to be called pasteurization.
He
with Ferdinand Cohn and Robert Koch. Pasteur also (8. to make) many
discoveries in the field of chemistry, most notably the molecular basis for the asymmetry of certain crystals.

Exercise 10

Bluetongue disease or	catarrhal fever	(1. to be) a non-contagious, insect-borne
viral disease of rumina	nts, mainly sheep and less fre	quently of cattle, goats, buffalo, deer, dromedaries
and antelope. It	(2. to be) ca	used by the Bluetongue virus.
Bluetongue virus	(3. to ca	use) serious disease in livestock. Partly due to this
BTV	(4. to be) in the forefr	ont of molecular studies for last three decades and
now	(5. to represent) one	of the best understood viruses at the molecular and
structural levels.		

Exercise 11

In modern molecular biology, the genome	(1. to be) the entirety of an
organism's hereditary information. It	(2. to be) encoded either in DNA or, for
many types of virus, in RNA. The genome	(3. to include) both the genes and
the non-coding sequences of the DNA. The term	(4. to be) adapted in 1920 by
Hans Winkler, Professor of Botany at the University of Hamburg	g, Germany.

EXERCISE 12

Severe acute respiratory syndrome (SARS) (1. to be) a viral respiratory
disease of zoonotic origin that
severe acute respiratory syndrome coronavirus (SARS-CoV or SARS-CoV-1), the first-identified strain of
the SARS coronavirus species severe acute respiratory syndrome-related coronavirus (SARSr-CoV). The
syndrome
scientists (4. to trace) the virus through the intermediary of civets to cave
dwelling horseshoe bats in Yunnan province. No cases of the first SARS-CoV(5
to be reported) worldwide since 2004.
In 2019, its successor, the related virus strain severe acute respiratory syndrome coronavirus 2 (SARS-
CoV-2), (6. to be discovered). This new strain causes COVID-19, a disease
which (7. to bring about) the COVID-19 pandemic.

Exercise 13

Most emerging infectious diseases - such as Lassa fever, Marburg haemorrhagic fever, Nipah viral infections and other viral diseases - (1. to have) wildlife origins. Within the syndrome (SARS) epidemic in 2003 and the Middle East respiratory syndrome (MERS), which (4. to stem) from the introduction of the novel coronavirus, SARS-CoV-2, into human populations. Although the specific mechanism of SARS-CoV-2(5. not / to be identified / definitively), at some point or over perhaps multiple-species pathogen transmission. The World Health Organization (WHO), the Food and Agriculture Organization of the United Nations (FAO), the World Organization for Animal Health (OIE) and the United Nations Environment Programme (UNEP)(7. to recognize) the repeated emergence of zoonotic diseases and the linkages of some of them along the value chain of the wildlife trade.