

READING PASSAGE 1

*You should spend about 20 minutes on **Questions 1–13**, which are based on Reading Passage 1 below.*

Bovids

The family of mammals called bovids belongs to the Artiodactyl class, which also includes giraffes. Bovids are a highly diverse group consisting of 137 species, some of which are man's most important domestic animals.

Bovids are well represented in most parts of Eurasia and Southeast Asian islands, but they are by far the most numerous and diverse in the latter. Some species of bovid are solitary, but others live in large groups with complex social structures. Although bovids have adapted to a wide range of habitats, from arctic tundra to deep tropical forest, the majority of species favour open grassland, scrub or desert. This diversity of habitat is also matched by great diversity in size and form: at one extreme is the royal antelope of West Africa, which stands a mere 25 cm at the shoulder; at the other, the massively built bison of North America and Europe, growing to a shoulder height of 2.2m.

Despite differences in size and appearance, bovids are united by the possession of certain common features. All species are ruminants, which means that they retain undigested food in their stomachs, and regurgitate it as necessary. Bovids are almost exclusively herbivorous. Typically, their teeth are highly modified for browsing and grazing: grass or foliage is cropped with the upper lip and lower incisors (the upper incisors are usually absent), and then ground down by the cheek teeth. As well as having cloven, or split hooves, the males of all bovid species and the females of most carry horns. Bovid horns have bony cores covered in a sheath of horny material that is constantly renewed from within; they are unbranched and never shed. They vary in shape and size: the relatively simple horns of a large Indian buffalo may measure around 4 m from tip to tip along the outer curve, while the various gazelles have horns with a variety of elegant curves.

Five groups, or sub-families, may be distinguished: Bovinae, Antelope, Caprinae, Cephalophinae and Antilocapridae. The sub-family Bovinae comprises most of the larger bovids, including the African bongo, nilgai, eland, bison and cattle. Unlike most other bovids, they are all non-territorial. The ancestors of the various species of domestic cattle (such as banteng, gaur, yak and water buffalo) are generally rare and endangered in the wild, while the auroch (the ancestor of the domestic cattle of Europe) is extinct.

The term 'antelope' is not a very precise zoological name – it is used to loosely describe a number of bovids that have followed different lines of development. Antelopes are typically long-legged, fast-running species, often with long horns that may be laid along the back when the animal is in full flight. There are two main sub-groups of antelope: Hippotraginae, which includes the oryx and the addax, and Antilopinae, which generally contains slither and more graceful animals such as gazelle and the springbok. Antelopes are mainly grassland species, but many have adapted to flooded grasslands: puku, waterbucks and lechwes are all good at swimming, usually feeding in deep water, while the sitatunga has long, splayed hooves that enable it to walk freely on swampy ground.

The sub-family Caprinae includes the sheep and the goat, together with various relatives such as the goral and the tahr. Most are woolly or have long hair. Several species, such as wild goats, chamois and ibex, are agile cliff and mountain-dwellers. Tolerance of extreme conditions is most marked in this group: barbary and bighorn sheep have adapted to arid deserts, while Rocky Mountain sheep survive high up in mountains and musk oxen in arctic tundra.

The duiker of Africa belongs to the Cephalophinae sub-family. It is generally small and solitary, often living in thick forest. Although mainly feeding on grass and leaves, some duikers – unlike most other bovids – are believed to eat insects and feed on dead animal carcasses, and even to kill small animals.

The pronghorn is the sole survivor of a New World sub-family of herbivorous ruminants, the Antilocapridae in North America. It is similar in appearance and habits to the Old World antelope. Although greatly reduced in numbers since the arrival of Europeans, and the subsequent enclosure of grasslands, the pronghorn is still found in considerable numbers throughout North America, from Washington State to Mexico. When alarmed by the approach of wolves or other predators, hairs on the pronghorn's rump stand erect, so showing and emphasising the white patch there. At this signal, the whole herd gallops off at speed of over 60 km per hour.

Questions 1-3

*Choose the correct letter, **A**, **B**, **C** or **D**.*

Write the correct letter in boxes 1-3 on your answer sheet.

- 1** In which region is the biggest range of bovids to be found?
 - A** Africa
 - B** Eurasia
 - C** North America
 - D** South-east Asia

- 2** Most bovids have a preference for living in
 - A** isolation.
 - B** small groups.
 - C** tropical forest.
 - D** wide open spaces.

- 3** Which of the following features do all bovids have in common?
 - A** Their horns are shed
 - B** They have upper incisors
 - C** They store food in the body
 - D** Their hooves are undivided

Questions 4-8

Look at the following characteristics (Question 4-8) and the list of sub-families below.

*Match each characteristic with the correct sub-family, **A**, **B**, **C** or **D**.*

Write the correct letter, A, B, C or D, in boxes 4-8 on your answer sheet.

NB *You may use any letter more than once*

- 4** can endure very harsh environments
- 5** includes the ox and the cow
- 6** may supplement its diet with meat
- 7** can usually move at speed
- 8** does not defend a particular area of land

List of sub-families

- A** Antelope
- B** Bovinae
- C** Caprinae
- D** Cephalophinae

Question 9-13

Answer the questions below.

Choose **NO MORE THAN THREE WORDS** from the passage for each answer.

Write your answers in boxes 9-13 on your answer sheet.

- 9 What is the smallest species of Bovid called?
- 10 Which species of Bovinae has now died out?
- 11 What facilitates the movement of the sitatunga over wetland?
- 12 What sort of terrain do barbary sheep live in?
- 13 What is the only living member of the Antilocapridae sub-family?

选择题 (Q1–3)

题号	答案	定位句 (第 X 段)	解释 (同义替换 & 选项排除)
1	D	第 2 段: “...well represented in most parts of Eurasia and Southeast Asian islands, but they are by far the most numerous and diverse in the latter. ”	“biggest range”=“most numerous and diverse (数量最多且多样性最高)”。 “the latter” 指后项 “South-east Asian islands”。排除: A 非文中 “最多最杂多样” 处; B 仅 “well represented”; C 未出现 “最多/最丰富”。
2	D	第 2 段: “...the majority of species favour open grassland, scrub or desert. ”	“wide open spaces” 与 “open grassland / scrub / desert (开阔草原/灌丛/沙漠)” 同义。排除: A “isolation” 与文意相反; B “small groups” 是社会结构, 不是栖息地偏好; C “tropical forest” 只是 “适应范围之一”, 非 “大多数偏好”。
3	C	第 3 段: “ All species are ruminants , which means that they retain undigested food in their stomachs , and regurgitate it...”	题干问 “所有牛科动物共同特征”。唯有反刍=“在体内存留/储存食物” 满足 “all species”。排除: A “horns... never shed (从不脱落)” ; B “upper incisors ... usually absent (通常没有上门齿)” ; D “cloven... hooves (分趾蹄)”, 与 “undivided” 相反。

配对题 (Q4–8)

List of sub-families: A Antelope; B Bovinae; C Caprinae; D Cephalophinae

题号	答案	定位句 (第 X 段)	解释
4	C	第 6 段: “ Tolerance of extreme conditions is most marked in this group: barbary and bighorn sheep... arid deserts... musk oxen in arctic tundra.”	“can endure very harsh environments”=“对极端环境的耐受性最强”。Caprinae (羊亚科) 匹配。
5	B	第 4 段: “The sub-family Bovinae comprises... bison and cattle. ”	牛亚科包含牛、野牛等, 题干 “ox and cow” 即 cattle。
6	D	第 7 段: “some duikers ... are believed to eat insects and feed on dead animal carcasses , and even to kill small animals. ”	Cephalophinae (麝羚/小羚亚科, duiker) 会补充肉食, 符合 “supplement its diet with meat”。
7	A	第 5 段: “ Antelopes are typically long-legged, fast-running species ... ”	“can usually move at speed” 与 “fast-running (奔跑迅速)” 同义。
8	B	第 4 段: “ Unlike most other bovids, they are all non-territorial. ”	Bovinae “非领域性 (不保卫领地)”=“does not defend a particular area of land”。

简答题 (Q9–13)

(每题不超过三个词)

题号	答案	定位句 (第 X 段)	解释
9	royal antelope	第 2 段: “at one extreme is the royal antelope of West Africa, which stands a mere 25 cm...”	“one extreme” 对应最小体型物种。写物种名。
10	auroch	第 4 段: “...while the auroch ... is extinct. ”	问 “Bovinae 中已灭绝的物种”, 直接填单词 “auroch”。
11	splayed hooves	第 5 段: “the sitatunga has long, splayed hooves that enable it to walk freely on swampy ground.”	问 “帮助其在湿地移动的东西”, 填名词短语 “splayed hooves” (≤3 词)。
12	arid deserts	第 6 段: “barbary and bighorn sheep have adapted to arid deserts ... ”	问 “barbary sheep 生活的地形”, 原词作答。
13	pronghorn	第 8 段: “The pronghorn is the sole survivor of ... Antilocapridae ... ”	唯一现存成员=“pronghorn”。