GMAT阅读资料第26篇 PDF转换可能丢失图片或格式，建议阅读原文
https／／www．100test．com／kao＿ti2020／126／2021＿2022＿GMAT＿E9＿9 8＿85＿E8＿AF＿BB＿c89＿126410．htm Although numbersof animalsin agiven region may fluctuate from year to year，the fluctuationsare often temporary and，over long periods，trivial．Scientistshave advanced three theories of population control to（5）account for this relative constancy．The first theory altributes arelatively constant popu－Iation to periodic climatic catastrophesthat decimate populationswith such frequency asto prevent them from exceeding some particular limit．In the cææ of（10）small organismswith short life cycles，climatic changesneed not be catastrophic：normal seasonal changesin photoperiod（daily amount of sunlight），for example，can govern population growth．Thistheorythe density－independent viewassertsthat climatic factors（15）exert the same regulatory effect on population regard－lessof the number of individualsin aregion．A second theory arguesthat population growth isprimarily density－dependentthat is，the rate of growth of a population in a region decreases asthe（20）number of animals increases．Themechanismsthat manage regulation may vary．For example，asnumbersincreaæ，the food supply would probably diminish，which would increase mortality．In addition，as Lotka and V olterrahave shown，predatorscan find prey more（25）easily in high－density populations Other regulatorsinclude physiological control mechanisms for example．Christian and Davishave demonstrated how the crowding that resultsfrom arise in numbers
may bring about hormonal changes in the pituitary and adrenal (30) glandsthat in turn may regulate population by lowering sexual activity and inhibiting sexual maturation. There isevidence that these effectsmay persist for threegenerationsin the absence of the original provocation. O ne challenge for density-dependent theoristsisto (35) develop modelsthat would allow the precise prediction of the effectsof crowding. A third theory, proposed by W ynne Edwards and termed "epideictic," arguesthat organismshave evolved a "code"in the form of social or epideictic behavior (40) displays, such aswinter-roosting æggregationsor group vocalizing. such codes provide organismswith infor- mation on population size in aregion so that they can, if necessary, exercise reproductive restraint. H owever, wynne Edwardstheory, linking animal social behavior (45) and population control, hasbeen challenged, with some justification, by several studies 1 The primary purpose of the passage isto (A) argue ægainst thos scientistswho maintain that animal populationstend to fluctuate (B) compare and contrast the density-dependent and epideictic theories of population control (C) provide example of some of the waysin which animalsexercise reproductive restraint to control their own numbers(D) suggests that theories of population control that concentrate on the social behavior of animalsare more open to debate than are theoriesthat do not (E) summarize a number of scientific theoriesthat attempt to explain why animal populationsdo not exceed certain limits2. It can be inferred from the passege that proponentsof the density-dependent theory of population control have not yet been
ableto（A）use their theory to explain the population growth of organismswith short life cycles（B）reproduce the results of the study of Christian and Davis（ C ）explain adequately why the numbersof a population can increase asthe populationsrate of growth decreases （D）make sufficiently accurate predictionsabout the effectsof crowding（E）demonstrate how predator populationsarethemslves regulated 3．W hich of the following，if true，would best support the density－dependent theory of population control as it isdescribed in the passage？（A）A sthe number of foxes in Minnesota decrease，the growth rate of thispopulation of foxesbeginsof increase．（B）A sthe number of woodpeckersin V ermont decreases，the growth rate of thispopulation of woodpeckersalso beginsto decrease．（C）A sthe number of prairie dogs in Oklahomaincreases，the growth rate of thispopulation of prairie dogsalso beginsto increase．（D）A fter the number of beaversin Tennessee decreases，the number of predators of these beaversbeginsto increase．（E）After the number of eaglesin Montana decreases，the food supply of thispopulation of eaglesalso beginsto decrease．100T est 下载频道开通，各类考试题目直接下载。详细请访问 www．100test．com

