英　　語

問題は第５問まであります

お断り

本稿の入試問題中で引用した文章・文献等について、著作物保護の観点から一部掲載を控えた箇所がございます。ご了承ください。

第１問　次の各問の空所(１)～(10)に入れるのに最も適切なものを，それぞれの選択肢①～④のうちから一つ選べ。

問１　Persisting（　1　）can lead to serious health issues such as lung cancer and heart disease.　解答番号1

① to smoke　② smoking　③ in smoking　④ on smoking

問２　The author's latest novel is a great（　2　）for avid mystery lovers.　解答番号2

① read　② reading　③ reader　④ readout

問３　I'm really concerned about the future of the planet. It is for this reason（　3　）I actively participate in environmental projects.　解答番号3

① because　② that　③ which　④ why

問４　Having lived in six different countries, my brother is no（　4　）to adapting to new cultures and languages.　解答番号4

① stranger　② amateur　③ native　④ expert

問５　The manager decided to（　5　）the team to find a solution to the problem on their own.　解答番号5

① demand　② suggest　③ admit　④ leave

問６　Rhinos are generally solitary animals and are（　6　）their happiest in large territories.　解答番号6

① on　② in　③ at　④ of

問７　（　7　）a strict, intimidating person, the landlord was actually quite generous and talkative.　解答番号7

① Supposed　② Supposing　③ To suppose　④ Supposedly

問８　After the evidence proved his innocence, he was（　８　）and no longer a suspect.

解答番号８

① behind bars　② off the hook
③ out on a limb　④ under the weather

問９　I would rather Emma（　９　）a personal training program to improve her performance.

解答番号９

① taking　② takes　③ will take　④ took

問10　Jessica tends to be quite critical.（　10　）, her feedback is always very constructive.

解答番号 10

① To say the least of it　② Speaking of which
③ Having said that　④ To put it bluntly

第２問　次の各和文の意味を表すように，それぞれの選択肢①～⑧を並べ替えて空所を補い，最も適切な英文を完成させよ。ただし，解答は解答番号のある場所に該当するもののみをマークせよ。なお，選択肢の語（句）は，文のはじめにくるものも小文字になっている。

問１　公園を訪れる人の中には，警告看板で餌やりをしないよう要請されているにもかかわらず，ハトに餌を与える人がいる。　**解答番号** 11, 12

Some visitors to the park continue to（　　）（ 11 ）（　　）（　　）（　　）（ 12 ）（　　）（　　）warning signs.

① asked　② to　③ feed
④ being　⑤ not　⑥ by
⑦ the pigeons　⑧ despite

問２　医者が処方した薬のおかげで，たちどころに私の頭痛は和らいだ。　**解答番号** 13, 14

（　　）（ 13 ）（　　）（　　）（　　）（ 14 ）（　　）（　　）almost immediately.

① my headache　② relieved　③ the doctor
④ by　⑤ prescribed　⑥ me
⑦ the medicine　⑧ of

問３　平均値は外れ値の影響を強く受けるため，代表値を表す上で必ずしも最適な尺度ではない。　**解答番号** 15, 16

The mean is not always the best measure（　　）（ 15 ）（　　）（　　）（　　）（ 16 ）（　　）（　　）quite strongly influenced by outliers.

① it　② describe　③ in that
④ which　⑤ is　⑥ in
⑦ a representative value　⑧ to

問４　私たちは人生の３分の１を睡眠に費やしているにもかかわらず，睡眠についていまだにほとんど理解できていない。　**解答番号** 17, 18

In spite of the fact that（　　）（　　）（ 17 ）（　　）（　　）（　　）（ 18 ）（　　），we still understand very little about it.

① is　② spend　③ something
④ we　⑤ doing　⑥ our lives
⑦ a third of　⑧ sleep

問５　化学物質汚染や細菌，真菌感染症は，気候変動による温度と湿度の激しい変化と同様に，両生類に容易かつ迅速に影響を及ぼす。　**解答番号** 19, 20

Chemical pollution, bacteria, and fungal infections impact amphibians easily and quickly, (　　) (19) (　　) (　　) (　　) (20) (　　) (　　) due to climate change.

① fluctuations　② do　③ levels
④ and moisture　⑤ in　⑥ as
⑦ extreme　⑧ temperature

第３問　次の英文のパラグラフ 21～25 には，誤りがそれぞれ一つ含まれている。各パラグラフにおける誤った箇所を含む下線部を，それぞれ①～④のうちから一つ選べ。解答は解答番号 21～25 にマークせよ。

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Adapted from “Reading for the Real World 3, Fourth Edition,”
by Peggy Anderson and Sam Robinson,
Compass Publishing (2022), pp.34-35

第４問　次の英文を読み，以下の設問に答えよ。

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Adapted from an article by Jennifer Zieba,
Live Science (February 10, 2024)

問１　空所(１)，(４)，(５)に入れるのに最も適切なものを，それぞれの選択肢①～④のうちから一つ選べ。

(１)　解答番号 26

① abundantly　② constantly
③ exceptionally　④ independently

(４)　解答番号 27

① conflicted with　② overlapped with
③ was caused by　④ was rooted in

(５)　解答番号 28

① origins　② functions
③ descendants　④ characteristics

問２　下線部(２)，(３)，(６)，(７)の本文中での意味に最も近いものを，それぞれの選択肢①～④のうちから一つ選べ。

(２)　a daunting prospect　解答番号 29

① a rare opportunity　② a promising start
③ a stiff challenge　④ a guaranteed success

(３)　that come with high-altitude living　解答番号 30

① that appear before living at a high altitude
② that accompany living at a high altitude
③ that result in living at a high altitude
④ that have little to do with living at a high altitude

(６)　plausible　解答番号 31

① conceivable　② lucrative
③ unreasonable　④ speculative

(７)　diverged from　解答番号 32

① was extracted from
② was passed down from
③ split away from
④ emerged from

問３　本文の内容に関して，次のⅠ～Ⅳの空所に入れるのに最も適切なものを，それぞれの選択肢①～④のうちから一つ選べ。

Ⅰ．Some genetic changes _____.　解答番号 33

① bring about favorable consequences only in human populations
② contribute to adaptations to living in harsh environments
③ could be harmful to people living in high-altitude environments
④ are found to be unrelated to changes in the way people live

Ⅱ．The new study published in *Science Advances* _____.　解答番号 34

① is highly acclaimed due to the efforts made by Benjamin Voight
② proved for the first time that mutations in some genes lower hemoglobin levels
③ makes it clear that the gene EPAS1 is important for everyone living in highlands
④ emphasizes the role of the gene EPAS1 in adapting to living in low-oxygen environments

Ⅲ．People who cannot bear low-oxygen environments _____.　解答番号 35

① have no option but to leave for a place at a lower altitude
② have to find a way to evolve to live in such conditions
③ are nevertheless reluctant to abandon their homes
④ think it necessary to experience a gene mutation to survive

Ⅳ．According to the passage, _____.　解答番号 36

① examining EPAS1 variants provides insight into how humans have evolved
② EPAS1 variants are thought to have appeared at the same time among peoples in different regions
③ it is expected that EPAS1 variants could be used as a cure for some respiratory disorders
④ the fact that the coelacanth can survive in such low-oxygen environments should come as a surprise

問４　本文のタイトルとして最も適切なものを，次の選択肢①～④のうちから一つ選べ。

解答番号 37

① The best way for humans to adapt to low-oxygen environments
② What is the role of gene variants in medical fields?
③ Convergent adaptive evolution in extreme environments
④ The similarities between coelacanths and certain humans

（下　書　き　用　紙）

英語の試験問題は次に続く。

第５問　次の英文を読み，以下の設問に答えよ。

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Adapted from “AI discovers that not every fingerprint is unique,”
by Columbia University School of Engineering and Applied Science,
ScienceDaily (January 10, 2024)

問１　空所(１)，(２)，(３)，(４)，(６)，(７)に入れるのに最も適切なものを，それぞれの選択肢①～④のうちから一つ選べ。

(１)　解答番号 38

① unarguable　② unlimited
③ undoubted　④ unmatchable

(２)　解答番号 39

① slightly lower　② wholly recognizable
③ almost the same　④ significantly higher

(３)　解答番号 40

① flaws　② similarities
③ discrepancies　④ consistency

(４)　解答番号 41

① skepticism　② enthusiasm
③ reluctance　④ ambivalence

(６)　解答番号 42

① acquitted　② allocated
③ arrested　④ adorned

(７)　解答番号 43

① authentic　② invaluable
③ alternative　④ misleading

問２　下線部(５)，(８)の内容として最も適切なものを，それぞれの選択肢①～④のうちから一つ選べ。

(５)　tips the balance　　解答番号 44

① is eventually disproved
② is finally established
③ turns out to be favorable
④ turns out to be irrelevant

(８)　that have eluded experts　　解答番号 45

① that experts have been indifferent to
② that experts have tried not to gain
③ that have been fascinating to experts
④ that have been unavailable to experts

問３　次のパラグラフⅠ，Ⅱは本文中の ① ～ ⑥ のいずれかの位置に入る。最も適切な箇所を一つずつ選べ。

Ⅰ.　　解答番号 46

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Ⅱ.　　解答番号 47

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問４　本文の内容に一致するものとして適切なものを，次の選択肢①～⑧のうちから三つ選べ。
なお，解答の順序は問わない。　　解答番号 48～50

① Unlike in TV dramas, fingerprints usually do not play a crucial role in finding criminals in the real world.

② Utilizing a database, the team led by Guo was capable of discerning whether any two fingerprints belonged to the same individual or not.

③ Guo's study remained unpublished, absent from both technical journals and mainstream magazines.

④ Lipson was probably the first academic to acknowledge the importance of the discovery that had been made by the team led by Guo.

⑤ Initially, the team led by Guo conducted their comparison of a vast number of fingerprints in a rather conventional manner.

⑥ Aniv Ray thinks that their system will do well regardless of how many samples of fingerprints are provided.

⑦ Quite a few people now believe that AI can do more than just repeating what is already known.

⑧ AI might pave the way for even those without professional scientific backgrounds to make unprecedented discoveries.