# CAT 2024 Slot 2 Question Paper

# **VARC**

1		e is a sentence that is missing in the paragraph below. Look at the paragraph and decide where (option 3, or 4) the following sentence would best fit.					
	Sentence: Science has officially crowned us superior to our early-rising brethren.						
	For a be me break tad m scroll veiled acade	graph: My fellow night owls, grab a strong cup of coffee and gather around: I have great news(1) long time, our kind has been unfairly maligned. Stereotyped as lazy and undisciplined. Told we ought to orning larks. Advised to go to bed early so we can wake before 5am and run a marathon before fast like all high-flyers seem to do. Now, however, we are having the last laugh(2) It may be a nore complicated than that. A study published last week, which you may have already seen while ling at 1am, suggests that staying up late could be good for brain power(3) Is this study a thinly dependent of the property o					
	Α	Option 4					
	В	Option 3					
	С	Option 1					
	D	Option 2					
<ol><li>Five jumbled up sentences (labelled 1, 2, 3, 4 and 5), related to a topic, are given below. Four of them can be put together to form a coherent paragraph. Identify the odd sentence and key in the number of that sentence as your answer.</li></ol>							
	<ol> <li>No known real researcher of human behaviour would say that gender is all nature or all nurture.</li> <li>The evidence for a biological basis for gender certainly doesn't mean we should be complacent in the fof sexism.</li> </ol>						
	<ol> <li>Many people are uncomfortable with the idea that gender is not purely a social construct.</li> <li>Despite this empirical truth, researchers who study the biological basis of gender often face political pushback.</li> <li>There's a political preference for gender to be only a rection of social factors and so entirely malleal</li> </ol>						
3.	. There	e is a sentence that is missing in the paragraph below. Look at the paragraph and decide where (option 3, or 4) the following sentence would best fit.					
	Sente	ence: [T]he Europeans did not invent globalization.					
	power unusu comp year 1 traver ways:(3) yet be	graph: The first phase of globalization occurred long before the introduction of either steam or electric rChinese consumers at all social levels consumed vast quantities of spices, fragrant woods and ual plants. The peoples of Southeast Asia who lived in forests gave up their traditional livelihoods and eletely reoriented their economies to supply Chinese consumers(1) These exchanges of the 1000 opened some of the routes through which goods and peoples continued to travel after Columbus resed the mid- Atlantic(2) Yet the world of 1000 differed from that of 1492 in importantthe travellers who encountered one another in the year 1000 were much closer technologically.  O They changed and augmented what was already there since 1000(4) If globalization hadn't egun, Europeans wouldn't have been able to penetrate the markets in so many places as quickly as they fiter 1492.					

- A Option 1
- B Option 4
- C Option 2
- D Option 3

# 4. The passage given below is followed by four alternate summaries. Choose the option that best captures the essence of the passage.

Different from individuals, states conduct warfare operations using the DIME model— "diplomacy, information, military, and economics." Most states do everything they can to inflict pain and confusion on their enemies before deploying the military. In fact, attacks on vectors of information are a well-worn tactic of war and usually are the first target when the charge begins. It's common for telecom data and communications networks to be routinely monitored by governments, which is why the open data policies of the web are so concerning to many advocates of privacy and human rights. With the worldwide adoption of social media, more governments are getting involved in low-grade information warfare through the use of cyber troops. According to a study by the Oxford Internet Institute in 2020, cyber troops are "government or political party actors tasked with manipulating public opinion online." The Oxford research group was able to identify 81 countries with active cyber troop operations, utilizing many different strategies to spread false information, including spending millions on online advertising.

- Following the DIME model, many governments have taken advantage of open data policies of the web to deploy cyber troops who manipulate domestic public opinion, using advertising and other strategies to spread false information.
- Governments primarily use the DIME model to deploy cyber troops who practise lowgrade information warfare, seeking to manipulate public opinion with the objective of inflicting pain and confusion on their enemies.
- Using the DIME model, together with military operations, many governments simultaneously conduct information warfare with the help of cyber troops and routinely monitor telecom data and communications networks.
- As part of conducting information warfare as per the DIME model, many governments routinely monitor telecom data and communications networks, and use cyber troops on social media to manipulate public opinion.

# 5. The passage given below is followed by four alternate summaries. Choose the option that best captures the essence of the passage.

John Cleese told Fox News Digital that comedians do not have the freedom to be funny in 2022. "There's always been limitations on what they're allowed to say," Cleese said. "I think it's particularly worrying at the moment because you can only create in an atmosphere of freedom, where you're not checking everything you say critically before you move on. What you have to be able to do is to build without knowing where you're going because you've never been there before. That's what creativity is — you have to be allowed to build. And a lot of comedians now are sitting there and when they think of something, they say something like, 'Can I get away with it? I don't think so. So and so got into trouble, and he said that, oh, she said that.' You see what I mean? And that's the death of creativity."

- A Comedians must not check what they think and say. They must go where no one has gone before.
- B Creativity and critical thinking cannot work together. Comedians must first be creative, and later be critical.
- **C** Comedians are being prevented from saying what they want and that is the death of this art form.
- **D** Freedom and creativity are essential for comedy. Fear about offending people hinders originality.
- 6. There is a sentence that is missing in the paragraph below. Look at the paragraph and decide where (option 1, 2, 3, or 4) the following sentence would best fit.

**Sentence**: Yet each day the flock produced eggs with calcareous shells though they apparently had not ingested any calcium from land which was entirely lacking in limestone.

Paragraph: Early in this century a young Breton schoolboy who preparing himself for a scientific career began to notice a strange fact about hens in his father's poultry yard. \_\_\_(1) \_\_\_. As they scratched the soil they constantly seemed to be pecking at specks of mica, a siliceous material dotting the ground. \_\_\_(2)\_\_\_. No one could explain to Louis Kervran why the chickens selected the mica, or why each time a bird was killed for the family cooking pot no trace of the mica could be found in its gizzard. \_\_\_(3) \_\_\_. It took Kervran many years to establish that the chickens were transmuting one element into another. \_\_\_(4)\_\_\_.

- A Option 1
- B Option 3
- C Option 2
- D Option 4

# Instructions [7 - 10]

The passage below is accompanied by four questions. Based on the passage, choose the best answer for each question.

The history of any major technological or industrial advance is inevitably shadowed by a less predictable history of unintended consequences and secondary effects — what economists sometimes call "externalities." Sometimes those consequences are innocuous ones, or even beneficial. Gutenberg invents the printing press, and literacy rates rise, which causes a significant part of the reading public to require spectacles for the first time, which creates a surge of investment in lens-making across Europe, which leads to the invention of the telescope and the microscope.

Oftentimes the secondary effects seem to belong to an entirely different sphere of society. When Willis Carrier hit upon the idea of air-conditioning, the technology was primarily intended for industrial use: ensuring cool, dry air for factories that required low-humidity environments. But...it touched off one of the largest migrations in the history of the United States, enabling the rise of metropolitan areas like Phoenix and Las Vegas that barely existed when Carrier first started tinkering with the idea in the early 1900s.

Sometimes the unintended consequence comes about when consumers use an invention in a surprising way. Edison famously thought his phonograph, which he sometimes called "the talking machine," would primarily be used to take dictation....But then later innovators... discovered a much larger audience willing to pay for musical recordings made on descendants of Edison's original invention. In other cases, the original innovation comes into the world disguised as a plaything...the way the animatronic dolls of the mid-1700s inspired Jacquard to invent the first "programmable" loom and Charles Babbage to invent the first machine that fit the modern definition of a computer, setting the stage for the revolution in programmable technology that would transform the 21st century in countless ways.

We live under the gathering storm of modern history's most momentous unintended consequence....carbon-based climate change. Imagine the vast sweep of inventors whose ideas started the Industrial Revolution, all the entrepreneurs and scientists and hobbyists who had a hand in bringing it about. Line up a thousand of them and ask them all what they had been hoping to do with their work. Not one would say that their intent had been to deposit enough carbon in the atmosphere to create a greenhouse effect that trapped heat at the surface of the planet. And yet here we are.

Ethyl (leaded fuel) and Freon belonged to the same general class of secondary effect: innovations whose unintended consequences stem from some kind of waste by-product that they emit. But the potential health threats of Ethyl (unleaded fuel) were visible in the 1920s, unlike, say, the long-term effects of atmospheric carbon build up in the early days of the Industrial Revolution....

Indeed, it is reasonable to see CFCs (chlorofluorocarbons) as a forerunner of the kind of threat we will most likely face in the coming decades, as it becomes increasingly possible for individuals or small groups to create new scientific advances — through chemistry or biotechnology or materials science — setting off unintended consequences that reverberate on a global scale.

#### 7. The author lists all of the following examples as "externalities" of major technical advances EXCEPT:

- A build-up of chlorofluorocarbons in the atmosphere
- B cooling and de-humidifying of factories through air-conditioning
- C application of the Jacquard loom to modern IT programming
- D extension of the phonograph to large-scale recording of music

#### 8. Which of the following best conveys the main point of the first paragraph?

- A The secondary effects of most major technological advances in the past, especially if they were unintended, have turned out to be beneficial.
- B The full impact of technological advances cannot be estimated in the short run as the ripple effects often extend far beyond the original intent.
- c It is important to judge an invention not by its immediate outcomes, but by the holistic impact of its secondary effects.
- The entire impact of a technological advance should be evaluated by the boost its secondary effects gives to generating further technological advances.

### 9. Carrier, Babbage, and Edison are mentioned in the passage to illustrate the author's point that

- A the secondary effect of past inventions mostly resulted in the creation of new inventions.
- B these inventors could not have visualised the eventual impact of their inventions on society.
- C despite the original intention, the unintended consequences of their inventions were largely beneficial.
- D inventions typically end up being used for entirely different purposes than the intended ones.

# 10. We can assume that the author would support all of the following views EXCEPT:

- A While technological advances in the past have had innocuous or beneficial outcomes, more recent advances have the potential to be more threatening globally.
- B The by-products of leaded fuel, rather than the fuel itself, were responsible for the build-up of carbonrelated gases in the atmosphere.
- c It has become far easier for people today to bring out innovations with dire worldwide consequences than it was earlier.
- The emissions caused by the large-scale use of leaded fuel ought to have been addressed earlier than they were.

# 11. The passage given below is followed by four alternate summaries. Choose the option that best captures the essence of the passage.

Recent important scientific findings have emerged from crossing the boundaries of scientific fields. They stem from physicists collaborating with biologists, sociologists and others, to answer questions about our world. But physicists and their potential collaborators often find their cultures out of sync. For one, physicists often discard a lot of information while extracting broad patterns; for other scientists, information is not readily disposed. Further, many non-physicists are uncomfortable with mathematical models. Still, the desire to work on something new and different is real, and there are clear benefits from the collision of views.

- A Despite differences in their research styles, physicists' research collaborations with scholars from other disciplines have yielded important research findings.
- B Large data sets and mathematical models in physics research combined with the research methods of non-physicist collaborators have yielded important scientific findings.
- The desire to diversify their research and answer important questions has led to several collaborations between physicists and other social scientists.
- Physicists have successfully buried their differences on research methods applied in other fields in their desire to find answers to baffling scientific questions.

- **12.** Five jumbled up sentences (labelled 1, 2, 3, 4 and 5), related to a topic, are given below. Four of them can be put together to form a coherent paragraph. Identify the odd sentence and key in the number of that sentence as your answer.
  - 1. The UK is a world leader in developing cultivated meat and the approval of a cultivated pet food is an important milestone.
  - 2. If we're to realise the full potential benefits of cultivated meat the government must invest in research and infrastructure.
  - 3. The first UK applications for cultivated meat produced for humans remain under assessment with the Food Standards Agency.
  - 4. The previous UK government had been looking at fast-tracking the approval of cultivated meat for human consumption.
  - 5. It underscores the potential for new innovation to help reduce the negative impacts of intensive animal agriculture.

### Instructions [13 - 16]

The passage below is accompanied by four questions. Based on the passage, choose the best answer for each question.

The job of a peer reviewer is thankless. Collectively, academics spend around 70 million hours every year evaluating each other's manuscripts on the behalf of scholarly journals — and they usually receive no monetary compensation and little if any recognition for their effort. Some do it as a way to keep abreast with developments in their field; some simply see it as a duty to the discipline. Either way, academic publishing would likely crumble without them.

In recent years, some scientists have begun posting their reviews online, mainly to claim credit for their work. Sites like Publons allow researchers to either share entire referee reports or simply list the journals for whom they've carried out a review.... The rise of Publons suggests that academics are increasingly placing value on the work of peer review and asking others, such as grant funders, to do the same. While that's vital in the publish-or-perish culture of academia, there's also immense value in the data underlying peer review. Sharing peer review data could help journals stamp out fraud, inefficiency, and systemic bias in academic publishing.....

Peer review data could also help root out bias. Last year, a study based on peer review data for nearly 24,000 submissions to the biomedical journal eLife found that women and non-Westerners were vastly underrepresented among peer reviewers. Only around one in every five reviewers was female, and less than two percent of reviewers were based in developing countries.... Openly publishing peer review data could perhaps also help journals address another problem in academic publishing: fraudulent peer reviews. For instance, a minority of authors have been known to use phony email addresses to pose as an outside expert and review their own manuscripts....

Opponents of open peer review commonly argue that confidentiality is vital to the integrity of the review process; referees may be less critical of manuscripts if their reports are published, especially if they are revealing their identities by signing them. Some also hold concerns that open reviewing may deter referees from agreeing to judge manuscripts in the first place, or that they'll take longer to do so out of fear of scrutiny....

Even when the content of reviews and the identity of reviewers can't be shared publicly, perhaps journals could share the data with outside researchers for study. Or they could release other figures that wouldn't compromise the anonymity of reviews but that might answer important questions about how long the reviewing process takes, how many researchers editors have to reach out to on average to find one who will carry out the work, and the geographic distribution of peer reviewers.

Of course, opening up data underlying the reviewing process will not fix peer review entirely, and there may be instances in which there are valid reasons to keep the content of peer reviews hidden and the identity of the referees confidential. But the norm should shift from opacity in all cases to opacity only when necessary.

# **13.** According to the passage, which of the following is the only reason NOT given in favour of making peer review data public?

- A It will deal with peer review fraud such as authors publishing bogus reviews of their work.
- B It would highlight the gender and race biases currently existing in the selection of reviewers.
- c It could address various inefficiencies and fraudulent practices that continue in academic publishing process.
- D It can tackle the problem of selecting appropriately qualified reviewers for academic writing.

### 14. All of the following are listed as reasons why academics choose to review other scholars' work EXCEPT:

- A It helps them keep current with cutting-edge ideas in their academic disciplines.
- **B** Some use this as an opportunity to publicise their own review work.
- C It is seen as a form of service to the academic community.
- D It is seen as an opportunity to expand their influence in the academic community.

# 15. Based on the passage we can infer that the author would most probably support

- A more careful screening to ensure the recruitment of content-familiar peer reviewers.
- **B** preserving the anonymity of reviewers to protect them from criticism.
- C publicising peer review data rather than the publication of actual reviews.
- **D** greater transparency across the peer review process in academic publishing.

# **16.** According to the passage, some are opposed to making peer reviews public for all the following reasons EXCEPT that it

- A makes reviewers reluctant to review manuscripts, especially if these are critical of the submitted work.
- B leaves the reviewers unexposed to unwarranted and unjustified criticism or comments from others.
- C deters reviewers from producing honest, if critical, reviews that are vital to the sound publishing process.
- D delays the manuscript evaluation process as reviewers would take longer to write their reviews.

# Instructions [17 - 20]

The passage below is accompanied by four questions. Based on the passage, choose the best answer for each question.

[S]pices were a global commodity centuries before European voyages. There was a complex chain of relations, yet consumers had little knowledge of producers and vice versa. Desire for spices helped fuel European colonial empires to create political, military and commercial networks under a single power.

Historians know a fair amount about the supply of spices in Europe during the medieval period - the origins, methods of transportation, the prices - but less about demand. Why go to such extraordinary efforts to procure expensive products from exotic lands? Still, demand was great enough to inspire the voyages of Christopher Columbus and Vasco Da Gama, launching the first fateful wave of European colonialism. . . .

So, why were spices so highly prized in Europe in the centuries from about 1000 to 1500? One widely disseminated explanation for medieval demand for spices was that they covered the taste of spoiled meat. . . . Medieval purchasers consumed meat much fresher than what the average city-dweller in the developed world of today has at hand. However, refrigeration was not available, and some hot spices have been shown to serve as an anti-bacterial agent. Salting, smoking or drying meat were other means of preservation. Most spices used in cooking began as medical ingredients, and throughout the Middle Ages spices were used as both medicines and condiments. Above all, medieval recipes involve the combination of medical and culinary lore in order to balance food's humeral properties and prevent disease. Most spices were hot and dry and so appropriate in sauces to counteract the moist and wet properties supposedly possessed by most meat and fish. . . .

Where spices came from was known in a vague sense centuries before the voyages of Columbus. Just how vague may be judged by looking at medieval world maps . . . To the medieval European imagination, the East was exotic and alluring. Medieval maps often placed India close to the so-called Earthly Paradise, the Garden of Eden described in the Bible.

Geographical knowledge has a lot to do with the perceptions of spices' relative scarcity and the reasons for their high prices. An example of the varying notions of scarcity is the conflicting information about how pepper is harvested. As far back as the 7th century Europeans thought that pepper in India grew on trees "guarded" by serpents that would bite and poison anyone who attempted to gather the fruit. The only way to harvest pepper was to burn the trees, which would drive the snakes underground. Of course, this bit of lore would explain the shriveled black peppercorns, but not white, pink or other colors.

Spices never had the enduring allure or power of gold and silver or the commercial potential of new products such as tobacco, indigo or sugar. But the taste for spices did continue for a while beyond the Middle Ages. As late as the 17th century, the English and the Dutch were struggling for control of the Spice Islands: Dutch New Amsterdam, or New York, was exchanged by the British for one of the Moluccan Islands where nutmeg was grown.

#### 17. It can be inferred that all of the following contributed to a decline in the allure of spices, EXCEPT:

- A the development of refrigeration techniques.
- B increase in the availability of spices.
- C changes in the system of medical treatment.
- D changes in European cuisine.

- 18. In the context of the passage, the people who heard the story of pepper trees being guarded by snakes would be least likely to arrive at the conclusion that
  - A this is why pepper is so hot.
  - B pepper is costly for good reason.
  - C it is not advisable to go to India to harvest the pepper themselves.
  - D it is no surprise that the pepper supply is so limited.
- 19. In the context of the passage, which one of the following conclusions CANNOT be reached?
  - A The spice trade was a driver of colonial expansion.
  - B India was colonised for its spices and gold.
  - C Tobacco was more marketable than spices.
  - D Colonialism was motivated by the demand for spices.
- **20.** If a trader brought white peppercorns from India to medieval Europe, all of the following are unlikely to happen, EXCEPT:
  - A medieval maps would be used as navigational aids.
  - **B** Europeans would doubt the story of pepper harvesting.
  - C the price of spices would decrease.
  - **D** pepper would no longer be considered exotic.

#### Instructions [21 - 24]

The passage below is accompanied by four questions. Based on the passage, choose the best answer for each question.

(. . .) There are three other common drivers for carnivore-human attacks, some of which are more preventable than others. Natural aggression-based conflicts - such as those involving females protecting their young or animals protecting a food source - can often be avoided as long as people stay away from those animals and their food.

Carnivores that recognise humans as a means to get food, are a different story. As they become more reliant on human food they might find at campsites or in rubbish bins, they become less avoidant of humans. Losing that instinctive fear response puts them into more situations where they could get into an altercation with a human, which often results in that bear being put down by humans. "A fed bear is a dead bear," says Servheen, referring to a common saying among biologists and conservationists. Predatory or predation-related attacks are quite rare, only accounting for 17% of attacks in North America since 1955. They occur when a carnivore views a human as prey and hunts it like it would any other animal it uses for food. (. . .)

Then there are animal attacks provoked by people taking pictures with them or feeding them in natural settings such as national parks which often end with animals being euthanised out of precaution. "Eventually, that animal becomes habituated to people, and [then] bad things happen to the animal. And the folks who initially wanted to make that connection don't necessarily realise that," says Christine Wilkinson, a postdoctoral researcher at UC Berkeley, California, who's been studying coyote-human conflicts.

After conducting countless postmortems on all types of carnivore-human attacks spanning 75 years, Penteriani's team believes 50% could have been avoided if humans reacted differently. A 2017 study co-authored by Penteriani found that engaging in risky behaviour around large carnivores increases the likelihood of an attack.

Two of the most common risky behaviours are parents leaving their children to play outside unattended and walking an unleashed dog, according to the study. Wilkinson says 66% of coyote attacks involve a dog. "[People] end up in a situation where their dog is being chased, or their dog chases a coyote, or maybe they're walking their dog near a den that's marked, and the coyote wants to escort them away," says Wilkinson.

Experts believe climate change also plays a part in the escalation of human-carnivore conflicts, but the correlation still needs to be ironed out. "As finite resources become scarcer, carnivores and people are coming into more frequent contact, which means that more conflict could occur," says Jen Miller, international programme specialist for the US Fish & Wildlife Service. For example, she says, there was an uptick in lion attacks in western India during a drought when lions and people were relying on the same water sources.

- (. . .) The likelihood of human-carnivore conflicts appears to be higher in areas of low-income countries dominated by vast rural landscapes and farmland, according to Penteriani's research. "There are a lot of working landscapes in the Global South that are really heterogeneous, that are interspersed with carnivore habitats, forests and savannahs, which creates a lot more opportunity for these encounters, just statistically," says Wilkinson.
- **21.** According to the passage, what is a significant factor that contributes to the habituation of carnivores to human presence?
  - A The natural aggression exhibited by carnivores, exacerbated by human interference, particularly when they are safeguarding their offspring or food sources.
  - The increased scarcity of resources due to climate change, forcing carnivores to venture outside their natural habitats in search of sustenance.
  - C The predatory perception of humans as potential prey within the carnivores' food chain.
  - The reduction in carnivores' instinctive fear response, resulting from their reliance upon human-provided food.
- 22. Given the insights provided by Penteriani's research and Wilkinson's statement, which of the following conclusions can be drawn about the relationship between landscape heterogeneity and human-carnivore conflicts?
  - A Low-income countries with vast, contiguous wilderness areas are less prone to human-carnivore conflicts because these areas lack the human presence necessary for such encounters.
  - Landscape heterogeneity, characterized by a mix of farmland and natural habitats, inherently reduces

    B the chances of human-carnivore conflicts by providing more refuge for wildlife away from human activity.

- C Homogeneous landscapes with uniform agricultural practices are more likely to experience high rates of human-carnivore conflicts due to the predictability of resources.
- The diversity and interspersion of working landscapes with carnivore habitats in rural areas increase the statistical probability of encounters between humans and carnivores.

# **23.** Which of the following statements, if false, would be inconsistent with the concerns raised in the passage regarding the drivers of carnivore-human conflicts?

- A Climate change has had negligible effects on the frequency of carnivore-human interactions in affected regions.
- Predatory attacks by carnivores are a common occurrence and have steadily increased over the past few decades.
- C Carnivores lose their instinctive fear of humans, when consistently exposed to human food sources
- P Human efforts to avoid risky behaviours around large carnivores have proven effective in reducing conflict incidents.

# **24.** According to the passage, which of the following scenarios would MOST likely exacerbate the frequency of carnivore-human conflicts?

- A Implementing 'food waste' management strategies to prevent wild animals being attracted to human food sources.
- **B** Addressing the impact of climate change on the availability of resources for wildlife.
- c Attempting to photograph wild animals from within secured viewing areas in national parks and protected zones.
- D Unleashing dogs by pet owners in areas with known high concentrations of large carnivores.

# Answers

1. <b>D</b>	2. <b>2</b>	3. <b>D</b>	4. <b>D</b>	5. <b>D</b>	6. <b>B</b>	7. <b>B</b>	8. <b>B</b>
9. <b>B</b>	10. <b>A</b>	11. <b>A</b>	12. <b>4</b>	13. <b>D</b>	14. <b>D</b>	15. <b>D</b>	16. <b>B</b>
17. <b>B</b>	18. <b>A</b>	19. <b>B</b>	20. <b>B</b>	21. <b>D</b>	22. <b>D</b>	23. <b>A</b>	24. <b>D</b>

# **Explanations**

#### 1.**D**

### D) Option 2 is the correct answer.

The sentence before option 2 states "Now, however, we are having the last laugh". The reason they are having the last laugh is given in the sentence, "Science has officially crowned us superior to our early-rising brethren." Therefore, it fits here perfectly forming a coherent paragraph.

- A) Option 4: Placing the sentence here would seem a bit disconnected. The sentence before and after Blank 4 flows continuously and placing the sentence here would break thisow
- <u>B) Option 3</u>: This placement would disrupt the flow of the sentence before and after Blank 3. The study mentioned before, blank 3, is the moment where the night owl's position is validated, so introducing the idea of "superiority" will be out of place and feel redundant.
- <u>C) Option 1</u>: It may seem plausible initially, but it would not be right to talk about the claim withoutrst mentioning the negative stereotypes, making this placement less effective.

#### 2.2

Sentence 2 is the odd one out.

Sequence 1435 forms a coherent paragraph:

**Sentence 1** introduces the debate about gender being in uenced by both biological and social factors. It sets the tone for the paragraph, addressing the complexity of gender.

**Sentence 4** follows logically from Sentence 1. After introducing the complexity of gender, it suggests that, even with the acknowledgment of both nature and nurture, researchers studying gender's biological basis still face political challenges.

**Sentence 3** builds on Sentence 4, highlighting why researchers studying the biological aspects of gender face resistance. The public discomfort with viewing gender as more than just a social construct is explained. **Sentence 5** connects to Sentence 3 by elaborating on the political preference for viewing gender purely as a social construct, reinforcing the challenges faced by researchers advocating for a more nuanced view of gender.

Sentence 2 doesn'tfit in the context of the paragraph The rest of the sentences are focused on the complexities of gender as a mix of nature and nurture and the political and societal challenges researchers face. Sentence 2 shifts the focus to the issue of sexism, which, while related to gender, does not directly tie into the previous sentences discussing the nature vs. nurture debate and the political resistance to biological explanations.

#### 3.**D**

We can attempt to place the given sentence by breaking the passage down into three segments -

The discussion till Blank (2) can be considered the first segment: it introduces the idea that globalization was already underway well before the industrial era. It highlights the economic interconnectedness between Chinese consumers and Southeast Asian suppliers, emphasizing that trade networks and economic reorientations were already shaping societies. The missing sentence does not there in Blanks (1) or (2) because the focus is on early economic exchange rather than the role of Europeans in globalization.

The discussion between Blanks (2) and (3) can be labelled as the second segment: it explores how trade routes developed in the year 1000, predating Columbus's journey. It sets up a comparison between different historical periods - 1000 and 1492 - but the idea this comparison is leading to is still unclear.

This is where the final segment [the discussion after Blank (3)] fits in. It delivers the passage's key argument: European involvement in global trade was not a beginning but a continuation of pre-existing systems. It reinforces the idea that the economic structures and trade routes established before 1492 were instrumental in enabling European expansion. The given sentence would bestit Blank (3) because we make a declaration ["The Europeans did not invent globalization"] and then follow up with information that reinforces this idea ["They changed and augmented what was already there since 1000"].

Hence, Option D is the correct choice.

#### 4.D

The passage starts by explaining how states use the DIME model in warfare, often targeting information systems first to destabilize enemies. Governments monitor communication networks, raising privacy concerns. With social media's rise, many countries employ "cyber troops" to manipulate public opinion online, spreading disinformation through tactics like paid ads. Option D best captures all these points.

Option A: This option incorrectly focuses on open data policies being used to deploy cyber troops, which the passage does not emphasize.

Option B: This option fails to address the key part of the passage, which is monitoring telecom data and networks.

Option C: The passage does not indicate that governments conduct warfare simultaneously with military forces; rather, they act before involving the military. We can infer this from the statement does everything they can to inflict pain and confusion on their enemies before deploying the military."

#### 5. **D**

Option D best captures the essence of the passage.

John Cleese argues that comedians need freedom to be creative and that fear of offending people or worrying about the consequences of what they say hinders their ability to be original. He highlights how modern comedians often second-guess themselves, which sfles their creativity. Option D reflects this idea, which stresses the importance of freedom and creativity in comedy, while warning against the fear that stresses innovation.

Option A: While Cleese advocates for freedom in comedy, he doesn't say that comedian *must go where no one has gone before,*" which is more of an extreme interpretation than the essence of the passage.

<u>Option B</u>: This option focuses too much on the relationship between creativity and critical thinking. The passage is more about how fear of offending hinders creativity, not about creativity being incompatible with critical thinking.

<u>Option C</u>: This focuses on the "death of the art form," but Cleese's main point is about how fear of repercussions impacts creativity, not about the art form dying as such.

Option 1: The sentence starting with "Yet each day..." would note there. This part is introducing Kervran's initial observations about the hens. Inserting this sentence would feel disjointed because the paragraph hasn't yet explained the significance of the eggs.

Option 2: The sentence wouldn'tfit here either. The focus here is on what the hens are doing (pecking mica), and the sentence about eggs feels disconnected from this point in the narrative.

Option 3: The sentence about the eggsits perfectly here because it explains a key element of the puzzle: the hens are producing eggs with calcareous shells despite not having an obvious source of calcium. This provides a crucial piece of information that explains why Kervran was puzzled in theret place. It ties directly to the anomaly he is investigating.

Option 4: It won't fit here as the paragraph has already shifted to Kervran's conclusion about the chickens transmuting one element to into another. Inserting the sentence about the eggs here would introduce new information too late, disrupting the focus on Kervran's final findings.

Therefore, The sentencefits best in Option 3. It helps to explain Kervran's puzzling observations and contributes to the mystery that he's trying to solve, all while maintaining a smooth narrative ow. The other options either disrupt the flow or introduce new information too soon or too late.

#### 7.B

Option B is the correct answer.

This is not an externality because it was the original intended use of air-conditioning. The passage mentions that Carrier invented air-conditioning to ensure cool, dry air for factories with low-humidity requirements.

The other options are externalities:

Option A: This is an unintended consequence. CFCs were initially used in refrigeration and air-conditioning, but their long-term environmental impact (ozone depletion) was not anticipated.

Option C: The Jacquard loom was originally a mechanical device for weaving patterns in fabric, but it led to the development of programmable machines, which had far-reaching effects on modern computing, which was also an unintended consequence of the loom's invention.

Option D: The passage states that the phonograph was initially designed for dictation but was adapted for music recording, which was an unintended consequence.

#### 8.B

Option B is the correct answer.

The first paragraph discusses how technological or industrial advances are often accompanied by unintended consequences or secondary effects, which may not be fully understood or predictable at the time of the invention. It gives the example of the printing press, which led to unexpected developments such as the creation of spectacles, and later, the telescope and microscope. This is well captured in Option B.

Option A: While some secondary effects may be benficial, the focus of the paragraph is more on the unpredictability and far-reaching nature of these effects, rather than their inherent beniet.

Option C: The paragraph doesn't advocate judging inventions by their secondary effects. Instead, it mentions that these effects are unpredictable and sometimes surprising. The main point is their unpredictability, not how to judge an invention.

Option D: The paragraph does not suggest that the impact of a technological advance should be evaluated by the boost its secondary effects give to generating further technological advances.

### 9.**B**

Option B is the correct answer.

The author mentions Carrier, Babbage, and Edison to emphasize that the inventors' original intentions were not related to the unexpected societal impacts their inventions had:

- Carrier created air-conditioning for industrial use, but it triggered a mass migration to cities like Phoenix and Las Vegas.
- Babbage's invention of a programmable loom and Edison's phonograph were originally intended for specific purposes (textile weaving and dictation, respectively). Still, they led to far-reaching technological developments in computing and music industries.

Therefore, we can infer that the inventors did not anticipate the full consequences of their inventions.

Option A: The secondary effects are shown as surprising or leading to unforeseen societal changes, rather than leading to more inventions.

Option C: The passage doesn't claim that the unintended consequences were largely befiecial. While some consequences may have been benecial (like the telescope and microscope from the printing press), others (like climate change) have been harmful.

Option D: This is close, but it's not the main point. The intended purpose of the inventions may have been different from their actual use, but the author's primary argument is about how the inventors could not have predicted the full societal impacts of their inventions, rather than focusing on how inventions end up being used for different purposes.

#### 10.A

Option A is the correct answer.

The author does not imply that recent advances are more threatening than past ones. Instead, he suggests that the nature of technological progress (with more individuals and smaller groups able to innovate) has changed, leading to new risks. The focus is not on comparing "past vs. recent" as more threatening but on the unexpected global impacts of all technological advances. Thus, option A misrepresents the author's view.

Option B: The author would agree with this because the passage explains that Ethyl (leaded fuel) and Freon are examples of innovations whose unintended consequences stem from by-products they emitted (such as lead from fuel and chemicals from Freon), which had secondary effects on health and the environment.

Option C: The author would support this as he mentions how individuals or small groups can now create innovations that have global impacts, particularly infields like biotechnology and chemistry, which was less true in the past.

Option D: The author suggests that the health threats of leaded fuel were visible earlier (in the 1920s), implying that they should have been addressed sooner. Hence, the author would support this

#### 11.A

Option A is the correct answer.

Option A captures the core idea that their collaborations have led to valuable scientic discoveries despite differences in research methods between physicists and other scientists. The passage emphasizes how these contrasting approaches still lead to productive outcomes, demonstrating the bentites of cross-disciplinary work.

Option B: While large data sets and mathematical models are mentioned, this option incorrectly focuses on "large data sets and mathematical models" as the main contributor, which is not the main point of the passage.

Option C: This is partially true, but the passage does not emphasize the "desire to diversify" research or focus on social scientists. It is about the collaboration of different scientific fields, not specifically social science.

Option D: This is inaccurate because the passage does not state that physicists have "buried" their differences; rather, it says that their differences exist, but the collaboration is still valuable. This is an extreme interpretation. 12.4

#### Sentence 4 is the odd one out.

Sentences 1, 2, 3, and 5 all focus on the current status and future prospects of cultivated meat in the UK, such as the leadership in developing cultivated meat, regulatory assessments, and the importance of government investment in research.

Sentence 4, however, refers to the previous UK government's efforts to fast-track approval of cultivated meat which is disconnected from the other sentences, as the focus shifts to a past action rather than the current developments or future needs in the industry.

#### 13.**D**

Option D is the correct answer.

The passage provides several arguments in favour of making peer review data public, but it does not mention that making this data public would help in selecting appropriately qualied reviewers for academic writing.

Option A: The passage mentions that openly publishing peer review data could help journals address fraudulent peer reviews, such as authors using fake email addresses to review their own manuscripts. Therefore, this is a reason given in favour of making the data public.

Option B: The passage discusses a study showing that women and non-Westerners are underrepresented among peer reviewers. Publishing peer review data could help highlight these gender and race biases, which is one of the reasons for making the data public.

Option C: The passage suggests that sharing peer-review data could help journals tackle issues like fraud, inefficiency, and systemic bias in the publishing process, which is another reason given in favour of making the data public.

### 14.**D**

Option D is the correct answer.

This is not mentioned as a reason in the passage. The focus is on staying informed, contributing to the ld, and publicizing their own work, not on expanding ifluence. Therefore, option D is the correct answer as it is the only reason not mentioned in the passage.

Option A: The passage mentions that some academics review work to weep abreast with developments in their field," which aligns with the idea that reviewing helps them stay updated with cutting-edge ideas. This is a valid reason.

Option B: The passage also mentions that some scientists post their reviews online mainly to claim credit for their work," which indicates that some view reviewing as an opportunity to publicize their contributions. This is a valid reason

Option C: The passage states that some view reviewing as a duty to the discipline, which is a form of service to the academic community. Therefore, option C is also a valid reason.

#### 15.**D**

Option D is the correct answer.

The passage discusses the value of making peer-reviewed data public to help address various issues in academic publishing, such as bias, in ficiency, and fraud. The author advocates for a shift from opacity in all cases to opacity only when necessary," implying support for greater transparency in peer review.

Option A: The passage mentions concerns about reviewer selection, such as gender and geographic imbalances, but it does not suggest that careful screening of content-familiar reviewers is a priority.

Option B: The passage mentioned about maintaining cofidentiality, but it does not strongly argue in favour of preserving anonymity.

Option C: The author does not fully endorse the publication of actual reviews or reviewer identities in every situation. While the author advocates for sharing peer review data, they also acknowledge that, in some cases, the content of reviews and reviewers' identities may need to remain content of reviews.

#### 16.**B**

Let's evaluate the options:

Option A: The passage mentions this concern: "referees may be less critical of manuscripts if their reports are published, especially if they are revealing their identities by signing them."

Option B: The passage does not mention that one of the reasons to oppose open peer review is to protect reviewers from unwarranted and unjustfied criticism. Instead, the passage discusses the concern that reviewers may avoid giving critical feedback if their identities and reports are made public, not because they want to avoid unjust criticism. The key concern is the fear of justfied criticism rather than avoiding unjust or unwarranted criticism.

Option C: The passage mentions that reviewers may be less critical in their reports if they fear their reviews will be published. This might prevent reviewers from being honest and offering critical assessments, which are crucial for the integrity of the publishing process.

<u>Option D</u>: Another concern raised in the passage is that reviewers might take longer to submit their reviews if they know they will be publicly scrutinized. This delay in the review process is seen as a disadvantage of open peer review.

Therefore, **option B** is the correct answerbecause the passage does not mention concerns about leaving reviewers unexposed to unwarranted criticism.

# 17.**B**

Option B is the correct answer.

The demand for spices was not necessarily tied to their availability. The passage states that medieval Europeans had limited geographical knowledge of where spices came from and were highly prized despite their relative scarcity. Spices were used for culinary and medicinal purposes, and the demand was driven by cultural and medical factors rather than availability.

Option A: The passage states that spices were used partly due to the unavailability of refrigeration, and some spices served as antibacterial agents. With the development of refrigeration techniques, the necessity for spices to preserve or enhance food properties would diminish, leading to a decline in their appeal.

Option C: The passage mentions how spices were used for medicinal properties in medieval times as part of humeral balancing. As medical science evolved, such practices would likely fall out of favour, reducing their significance.

Option D: The passage states that spices played a signicant role in medieval cooking, balancing humeral properties in food. Changes in European tastes or culinary practices would have contributed to a decline in the demand for spices.

### 18.A

Option A is the correct answer.

This is a wrong conclusion because it confuses the physical heat from the harvesting process with the pepper's actual spiciness. The process of using fire for harvesting could not be related to the spiciness (being hot) of the pepper.

Option B: The story of snakes and burning trees implies that pepper was **fficult** and dangerous to harvest, which could explain why it was costly. This is a reasonable conclusion based on the story.

Option C: Given the danger described in the myth (snakes and burning trees), it's logical that people would conclude it's not advisable to go to India to harvest pepper themselves. This could be a conclusion from the story.

Option D: The story suggests that harvesting pepper is **d**ficult and dangerous, which might lead people to think that the supply is limited. Based on the information provided in the myth, this is a reasonable conclusion.

#### 19.B

Option B is the correct answer.

While spices were a major part of European trade with the East, the passage does claim that gold was a motivation for colonizing India. The main focus of the passage is on spices, not gold. Hence, the conclusion that India was colonized for both spices and gold cannot be denitively drawn from the passage.

Option A: The passage hints that the desire for spices played a signicant role in driving European colonial expansion. Therefore, this conclusion can be reached from the passage.

<u>Option C</u>: The passage briefly mentions that spices never had the same enduring allure or commercial potential as gold, silver, tobacco, indigo, or sugar. From this, we can infer that tobacco was more marketable than spices at certain points in history.

<u>Option D</u>: In the passage, the desire for spices is described as one of the major factors that led to European colonialism. Therefore, this conclusion could be reached.

#### 20.**B**

Option B is the correct answer.

If white peppercorns were brought to Europe, Europeans would likely doubt the myth of harvesting pepper by burning trees, as white peppercorns would not be burnt like the black peppercorns described in the story. This inconsistency would make them question the accuracy of the myth.

<u>Option A</u>: Medieval maps were mentioned as symbolic and inaccurate, making them impractical for navigation. Traders did not rely on these maps for precise geographical guidance.

Option C: This outcome is unlikely. The passage explains that spices were scarce and expensive; thus, bringing white pepper would not signficantly affect its price, since it remained a rare and highly valued commodity.

Option D: Even if a trader brought white peppercorns, pepper would still be viewed as exotic by Europeans due to its rarity and the long journey it took to reach Europe. So, this outcome is also unlikely.

#### 21.D

Option D is the correct answer.

The passage states that: "As they become more reliant on human food they might find at campsites or in rubbish bins, they become less avoidant of humans. Losing that instinctive fear response puts them into more situations where they could get into an altercation with a human, which often results in that bear being put down by humans."

This means that the factor contributing most to carnivores' habituation to human presence is the reduction in instinctive fear response and reliance on human food sources, which is evident in option D.

Option A: The passage does not mention their natural aggression. It focuses more on losing fear due to food reliance on human food.

Option B: The passage mentions climate change as a possible reason for increased contict, but it doesn't suggest it directly contributes to loss of fear or habituation.

Option C: The passage does not mention about the predatory perception of humans as potential prey, hence eliminated.

#### 22.D

Option D is the correct answer. The passage mentions that landscape heterogeneity (a mix of farmland, forests, and carnivore habitats) in rural areas of low-income countries creates more opportunities for human-carnivore encounters.

As Penteriani's research shows, such landscapes increase the statistical probability of these concerns the areas are interspersed with human and carnivore habitats. This aligns with option D.

Option A: This is inconsistent with the passage. The passage states, The likelihood of human-carnivore conflicts appears to be higher in areas of low-income countries dominated by vast rural landscapes and farmland. Therefore, it is not less prone, rather more prone as per the passage.

<u>Option B</u>: The passage does not claim that landscape heterogeneity inherently decreases the chances of human-carnivore conflict. Instead, it states that diversity increases the likelihood of encounters rather than reducing it.

Option C: The passage does not state that homogeneous landscapes cause high rates of contict due to predictability. Instead, it suggests that landscape heterogeneity increases encounters.

This is an official CAT 2024 Question, and the marked answer is according to the foicial answer key. We disagree with this answer.

Let us look at falsifying these statements:

Option A: Climate change has had negligible effects on the frequency of carnivore-human interactions in affected regions.

False version 1: Climate change has had no effect on the frequency of carnivore-human interactions in affected regions. - Inconsistent with the passage

False version 2: Climate change has had a lot of effect on the frequency of carnivore-human interactions in affected regions. - Consistent

As one of the versions contradicts the passage, we can say that the statement if false is inconsistent.

### Option B:

Predatory attacks by carnivores are a common occurrence and have steadily increased over the past few decades.

False Version: Predatory attacks by carnivores are a rare occurrence and have steadily increased over the past few decades.

This is consistent with the passage.

Option C: Carnivores lose their instinctive fear of humans, when consistently exposed to human food sources. False Version: Carnivores do not lose their instinctive fear of humans, when consistently exposed to human food sources. – irrelevant to the passage as the author speaks on reliance on human food and not exposure to human food "sources".

Option D: Human efforts to avoid risky behaviours around large carnivores have proven effective in reducing conflict incidents.

False version: Human efforts to avoid risky behaviours around large carnivores have not proven effective in reducing conflict incidents. – beyond the scope of the passage.

#### 24.D

Option D is the correct answer.

The passage mentions that 66% of coyote attacks involve a dog, which can either provoke a carnivore or escalate a dangerous situation when the dog chases a carnivore or vice versa. In areas with large carnivores, unleashing dogs can increase the likelihood of encounters and cofficts. Therefore, option D is the most likely scenario to exacerbate carnivore-human cofficts.

Why the other options are less likely to exacerbate the coflicts:

<u>Option A</u>: Preventing wild animals from being attracted to human food sources would actually reduce carnivorehuman conflicts by keeping animals from becoming habituated to humans. This would prevent potential issues, not exacerbate them.

<u>Option B</u>: The passage suggests that climate change could increase the frequency of human-carnivore encounters due to scarcity of resources. Therefore, addressing climate change would likely help prevent the issue rather than exacerbate it.

Option C: According to the passage, photographing wild animals in secured viewing areas is not a major driver of carnivore-human conflicts. Conflicts typically arise from behaviours that encourage animals to approach humans or interact in risky ways, not from observation in protected zones. Therefore, this is unlikely to exacerbate conflicts.