

## English Language

**1. Correct Answer: B) raising a question and describing an important discovery that led to an answer.**

Explanation: The passage discusses the question of how a genetic mutation can lead to both increased blood cholesterol and decreased LDL receptor function, and it highlights the discovery of the Watanabe rabbits that provided insights into this question.

**Why other options are incorrect**

A) presenting a hypothesis and describing compelling evidence in support of it

Incorrect: The passage focuses more on discoveries rather than just presenting a hypothesis.

C) showing that a certain genetically caused disease can be treated effectively with drugs

Incorrect: While the passage mentions the potential development of drugs, it does not assert that the disease can be effectively treated yet.

D) explaining what causes the genetic mutation that leads to heart disease

Incorrect: The passage does not directly explain the cause of the genetic mutation but rather its effects.

**2. Correct Answer: B) A drug that stimulates the production of LDL receptors on the liver.**

Explanation: The passage indicates that increased LDL receptors would help in controlling LDL levels, hence a drug increasing receptor production would align with the goal of treating familial hypercholesterolemia.

**Why other options are incorrect**

A) A drug that stimulates the production of VLDL remnants

Incorrect: This would potentially increase cholesterol levels rather than reduce them.

C) A drug that stimulates the production of an enzyme needed for cholesterol production

Incorrect: This would likely exacerbate the cholesterol problem.

D) A drug that suppresses the production of body cells that use cholesterol

Incorrect: This does not directly address the removal or management of LDL levels.

**3. Correct Answer: C) Where in the body are VLDL remnants degraded?**

Explanation: The passage states that VLDL remnants are normally sent to the liver where they bind to LDL receptors and are degraded.

**Why other options are incorrect**

A) Which body cells are the primary users of cholesterol?

Incorrect: The passage does not specify which cells primarily use cholesterol.

B) How did scientists discover that LDL's are secreted from the liver in the form of a precursor?

Incorrect: The passage does not provide details on how this discovery was made.

D) Which body tissues produce triglycerides?

Incorrect: The passage does not discuss the source or production of triglycerides.

**4. Correct Answer: A) VLDL remnants are removed from the blood by LDL receptors in the liver.**

Explanation: The passage explains how VLDL remnants require LDL receptors for their removal from the blood.

**Why other options are incorrect**

B) LDL's are secreted from the liver in the form of precursors called VLDL's

Incorrect: While this statement is true, it is not what scientists learned specifically from studying the Watanabe rabbits.

C) VLDL remnant particles contain small amounts of cholesterol

Incorrect: This is not a focus of the findings from the study.

D) triglycerides are removed from VLDL's by fatty tissues

Incorrect: This fact is presented but not the main takeaway from studying the rabbits.

**5. Correct Answer: C) promising, but many years off.**

Explanation: The author suggests that understanding from the studies is leading toward drug development, indicating potential but not immediate solutions.

**Why other options are incorrect**

A) possible, but not very important

Incorrect: The author implies that the development is important for those affected by the condition.

B) interesting, but too costly to be practical

Incorrect: There is no mention of cost being a factor in the discussion.

D) extremely unlikely

Incorrect: The passage conveys hope regarding drug development.

**6. Correct Answer: A) insufficiently familiar with the international origins of nineteenth-century American feminist thought.**

Explanation: The author suggests that historians who view early feminists as solitary do not recognize the broader international context, particularly the connection to the utopian socialist movement in Europe, which contributed to the feminist ideas in the U.S.

**Why other options are incorrect**

B) overly concerned with the regional diversity of feminist ideas in the period before 1848

Incorrect: This option misinterprets the author's focus; the author is more concerned with the lack of understanding of international connections rather than regional diversity.

C) not focused narrowly enough in their geographical scope

Incorrect: This choice is misleading; the problem identified is insufficient knowledge about international origins, not being overly broad in geographical scope.

D) insufficiently aware of the ideological consequences of the Seneca Falls conference

Incorrect: While the passage discusses the conference, it does not claim that historians are unaware of its ideological consequences, rather that they overlook deeper connections.

**7. Correct Answer: D) It was a manifestation of an international movement for social change and feminism.**

Explanation: The passage emphasizes that the Seneca Falls conference was connected to a broader international movement in feminism, particularly influenced by utopian socialism in Europe.

**Why other options are incorrect**

A) It was primarily a product of nineteenth-century Saint-Simonian feminist thought.

Incorrect: While influenced by social movements, it is not framed in the passage as solely a product of Saint-Simonianism.

B) It was the work of American activists who were independent of feminists abroad.

Incorrect: The passage clearly indicates a connection to international ideas, contradicting independence.

C) It was the culminating achievement of the utopian socialist movement.

Incorrect: The conference was essential but positioned within a broader movement rather than as the sole culmination.

**8. Correct Answer: B) disapproval of their lack of attention to the issue that absorbed most of the Saint-Simonians' energy after 1832.**

Explanation: The author criticizes these historians for not recognizing feminism as central to Saint-Simonianism and suggests that this oversight limits their understanding of feminism's development.

**Why other options are incorrect**

A) approval of the specific focus of their research

Incorrect: The author does not express approval; rather, they indicate that the focus is inadequate.

C) approval of their general focus on social conditions

Incorrect: The author emphasizes a lack of focus on feminist ideas, indicating disapproval rather than general approval.

D) disapproval of their lack of attention to links between the Saint-Simonians and their American counterparts

Incorrect: Although this is related, the author's disapproval is more specifically tied to neglecting feminism, not merely the links.

**9. Correct Answer: D) Most members believed that women and men were inherently similar in ability and character.**

Explanation: While there was a minority that held this view, the passage states that most men believed in innate differences between the sexes, which contrasts with this option.

**Why other options are incorrect**

A) The group included many women among its members.

Correct: The passage identifies that many followers, including women, comprised the movement.

B) The group believed in a world that would be characterized by sexual equality.

Correct: The passage indicates that the Saint-Simonians envisioned a new world order with defined roles for men and women that would foster sexual equality.

C) The group was among the earliest European socialist groups.

Correct: The author mentions the Saint-Simonians as some of the first utopian socialists.

**10. Correct Answer: A) It would be worldwide.**

Explanation: The passage discusses Saint-Simon's project to reorganize "the globe," indicating a vision for a worldwide society.

**Why other options are incorrect**

B) It would emphasize dogmatic religious principles.

Incorrect: The passage does not mention religious principles; it focuses on social organization and equality instead.

C) It would most influence the United States.

Incorrect: Although there is a connection to the U.S., the emphasis is on a much broader societal vision.

D) It would have armies composed of women rather than of men.

Incorrect: The focus on spiritual rule does not reference military structures or gender in military roles.

**11. Correct Answer: D) It probably involves the nonenzymatic glycosylation of proteins.**

Explanation: The passage suggests that the stiffening and loss of elasticity of aging tissues are likely linked to nonenzymatic glycosylation, especially through the formation of advanced glycosylation end products (AGEs).

**Why other options are incorrect**

A) It is caused to a large degree by an increased rate of cell multiplication.

Incorrect: The passage does not mention cell multiplication as a factor in the stiffening of tissues.

B) It paradoxically both helps and hinders the longevity of proteins in the human body.

Incorrect: The passage does not discuss any paradoxical effects of stiffening on protein longevity.

C) It can be counteracted in part by increased ingestion of glucose-free foods.

Incorrect: While glucose-free foods are mentioned, the passage does not assert that they can counteract stiffening.

**12. Correct Answer: C) It does not require the aid of enzymes to attach glucose to protein.**

Explanation: The passage describes nonenzymatic glycosylation as a process that occurs without the aid of enzymes, distinguishing it from enzymatic glycosylation.

**Why other options are incorrect**

A) It takes place more slowly than glycosylation in the human body.

Incorrect: The passage does not compare the speed of the process in foods versus in the human body.

B) It requires a higher ratio of glucose to protein than glycosylation requires in the human body.

Incorrect: The passage does not mention any specific ratios of glucose to protein.

D) It proceeds more quickly when the food proteins have a molecular structure similar to that of crystallin proteins.

Incorrect: The passage does not discuss the effect of protein structure on the speed of the process.

**13. Correct Answer: D) Glucose is attached to proteins for specific purposes.**

Explanation: The passage states that enzymatic glycosylation attaches glucose to specific sites on specific proteins for specific purposes, contrasting it with the haphazard nature of nonenzymatic glycosylation.

**Why other options are incorrect**

A) AGE's are formed after a period of months or years.

Incorrect: AGE formation is associated with nonenzymatic glycosylation, not enzymatic glycosylation.

B) Proteins affected by the process are made unstable.

Incorrect: The passage does not state that enzymatic glycosylation makes proteins unstable.

C) Glucose attachment impairs and stiffens tissues.

Incorrect: The passage does not claim that enzymatic glycosylation leads to impairment or stiffening; it focuses on nonenzymatic glycosylation for those effects.

**14. Correct Answer: D) They are derived from Schiff bases.**

Explanation: The passage indicates that Amadori products are formed when Schiff bases rearrange, linking them directly to the process involving Schiff bases.

**Why other options are incorrect**

A) They are more plentiful in a dehydrated environment.

Incorrect: The passage does not mention the environmental conditions affecting the abundance of Amadori products.

B) They are created through enzymatic glycosylation.

Incorrect: The passage describes Amadori products as part of the nonenzymatic glycosylation process.

C) They are composed entirely of glucose molecules.

Incorrect: Amadori products are not composed entirely of glucose; they are derived from the modification of proteins.

**15. Correct Answer: B) It presents a specific example of the process discussed in the first two paragraphs.**

Explanation: The third paragraph provides a specific example of how nonenzymatic glycosylation affects crystallin proteins in the lens of the eye, illustrating the broader concepts introduced earlier.

**Why other options are incorrect**

A) It offers evidence that contradicts the findings described in the first two paragraphs.

Incorrect: The paragraph supports the discussion in the earlier paragraphs rather than contradicting it.

C) It explains a problem that the researchers mentioned in the second paragraph have yet to solve.

Incorrect: The paragraph does not mention any unresolved problems but rather describes a specific outcome.

D) It evaluates the research discoveries described in the previous paragraph.

Incorrect: The paragraph does not evaluate research but presents an example.

**16. Correct Answer: C) Qualified approval.**

Explanation: The author acknowledges Gaskell's effort to document working-class life but also notes that this method has a "slightly distancing effect," indicating a nuanced view that appreciates the effort while recognizing its limitations.

**Why other options are incorrect**

A) Uncritical enthusiasm

Incorrect: The author does not express uncritical enthusiasm; there are clear reservations about the method.

B) Unresolved ambivalence

Incorrect: The author's attitude is more definitive than ambivalence; it is a qualified approval rather than uncertainty.

D) Resigned acceptance

Incorrect: The author does not simply accept the method; there is an appreciation for its effort and a critique of its effect.

**17. Correct Answer: A) Depiction of the feelings of working-class families.**

Explanation: The passage states that Gaskell's work conveys emotions and responses of working-class families, which is something that D. H. Lawrence later achieves in his writing.

**Why other options are incorrect**

B) Documentary objectivity about working-class circumstances

Incorrect: Gaskell's documentary approach is noted, but Lawrence's early writing is characterized by emotional depth rather than documentary objectivity.

C) Richly detailed description of working-class adjustment to urban life

Incorrect: While Gaskell provides details, the passage does not claim that Lawrence's early novels focus on adjustment to urban life in the same way.

D) Imaginatively structured plots about working-class characters

Incorrect: The passage does not discuss the structure of plots in Lawrence's early works, focusing instead on emotional depth.

**18. Correct Answer: A) An entomologist who collected butterflies as a child.**

Explanation: Job Legh is described as a weaver and naturalist with a strong affinity for living things, which aligns closely with the idea of an entomologist who collects and studies insects.

**Why other options are incorrect**

B) A small-town attorney whose hobby is nature photography

Incorrect: This option does not capture the same level of dedication to biology and living things as Job Legh.

C) A young man who leaves his family's dairy farm to start his own business

Incorrect: This option does not reflect the same affinity for nature and living things that Job Legh embodies.

D) A city dweller who raises exotic plants on the roof of his apartment building

Incorrect: While this option involves an interest in living things, it lacks the specific connection to the naturalist aspect of Job Legh's character.

**19. Correct Answer: B) Geographical displacement.**

Explanation: The passage mentions characters remembering their rural pasts and the contrast with their current urban lives, indicating a sense of loss and displacement due to industrialism.

**Why other options are incorrect**

A) Extortionate food prices

Incorrect: The passage does not mention food prices as a specific issue faced by the characters.

C) Hazardous working conditions

Incorrect: While hazardous conditions are a concern in industrial settings, the passage does not specifically address this aspect.

D) Alienation from fellow workers

Incorrect: The passage discusses cooperation among workers rather than alienation.

**20. Correct Answer: D) managed to transcend her position as an outsider.**

Explanation: The passage suggests that Gaskell's middle-class background creates a distance in her portrayal of working-class life, implying that a deeper, more authentic connection could have enhanced the novel.

**Why other options are incorrect**

A) concentrated on the emotions of a single character

Incorrect: The passage does not suggest that focusing on one character would improve the novel; it emphasizes the broader emotional landscape.

B) made no attempt to re-create experiences of which she had no firsthand knowledge

Incorrect: The author appreciates Gaskell's efforts despite her outsider status, indicating that some attempt at re-creation is valuable.

C) made no attempt to reproduce working-class dialects

Incorrect: The passage highlights the use of dialect as part of Gaskell's documentary method, suggesting it is an important aspect of her work.

**21. Correct Answer: C) describing research confirming the suspected relationship between intersexual selection and the complexity of birdsong.**

Explanation: The passage discusses the two main pathways of sexual selection, focusing on how research confirmed the relationship between intersexual selection and song complexity in birds, particularly through the example of warblers.

**Why other options are incorrect**

A) showing that intrasexual selection has a greater effect on birdsong than does intersexual selection

Incorrect: The passage does not argue that intrasexual selection is greater; it discusses both types of selection and emphasizes research confirming intersexual selection.

B) contrasting the role of song complexity in several species of birds

Incorrect: While the passage mentions different species, it does not primarily focus on contrasting their roles; it centers on research findings.

D) demonstrating the superiority of laboratory work over field studies in evolutionary biology

Incorrect: The passage does not claim superiority but discusses the findings from both laboratory and field studies without favoring one over the other.

**22. Correct Answer: D) give an example of a feature that may have evolved through intersexual selection by female choice.**

Explanation: The mention of the peacock's tail serves as a classic example of a trait that evolved through intersexual selection, paralleling the discussion of birdsong in male birds.

**Why other options are incorrect**

A) cite an exception to the theory of the relationship between intrasexual selection and male competition

Incorrect: The peacock's tail supports the idea of intersexual selection, not an exception to intrasexual selection.

B) illustrate the importance of both of the pathways that shaped the evolution of birdsong

Incorrect: The peacock's tail specifically illustrates intersexual selection rather than both pathways.

C) draw a distinction between competing theories of intersexual selection

Incorrect: The passage does not present competing theories regarding intersexual selection; it cites examples that support it.

**23. Correct Answer: B) Territorial behavior.**

Explanation: The passage mentions that male competition and intrasexual selection produce short songs used primarily in territorial behavior, directly linking territoriality to intrasexual selection.

**Why other options are incorrect**

A) Female choice

Incorrect: This is related to intersexual selection, not intrasexual selection.

C) Complex song types

Incorrect: Complex song types are primarily associated with intersexual selection.

D) Large song repertoires

Incorrect: Large song repertoires are related to mating behavior under intersexual selection.

**24. Correct Answer: D) Male jays use songs to compete among themselves and to attract females.**

Explanation: This statement indicates that male jays utilize song for both competitive purposes and mate attraction, demonstrating the interaction between intrasexual and intersexual selection.

**Why other options are incorrect**

A) Female larks respond similarly both to short, simple songs and to longer, more complicated songs.

Incorrect: This statement addresses female response but does not illustrate the interaction between the two pathways.

B) Male canaries use visual ornamentation as well as elaborate song repertoires for mate attraction.

Incorrect: While it suggests multiple features may be used for attraction, it does not show interaction between intrasexual and intersexual selection.

C) Both male and female blackbirds develop elaborate visual and vocal characteristics.

Incorrect: This indicates characteristics but does not provide evidence of both selection pathways interacting.

**25. Correct Answer: A) eliminate confounding variables.**

Explanation: The authors want to control for external variables in their experiments to ensure the observed behaviors result from the songs themselves, which is a technique for eliminating confounding variables.

**Why other options are incorrect**

B) approximate field conditions

Incorrect: Acoustic isolation does not approximate field conditions; it isolates variables for study.

C) measure reproductive success

Incorrect: The study does not aim directly to measure reproductive success but rather female responses to song.

D) quantify repertoire complexity

Incorrect: While song structure is analyzed, the goal is to understand female responses, not just quantify complexity.

### Logical Reasoning

**26. Answer: B) To integrate emotional and cognitive learning to improve overall student well-being.**

Explanation: The passage emphasizes the CALM system's focus on combining cognitive and emotional competencies to enhance students' psychological well-being.

**Why other options are incorrect**

- A) The passage does not suggest that traditional methods are the focus.
- C) The CALM system promotes cooperation rather than competition.
- D) The passage highlights the importance of emotional intelligence, not its elimination.

**27. Answer: A) Students report feeling more anxious and less engaged in their studies.**

Explanation: This outcome directly contradicts the positive effects of the CALM system as described in the passage, which aims to reduce anxiety and increase engagement.

**Why other options are incorrect**

- B) Increased collaboration supports the claims made in the passage.
- C) Improved emotional regulation aligns with the goals of the CALM system.
- D) A decline in behavioral issues supports the effectiveness of the CALM system.

**28. Answer: B) Traditional educational methods have been shown to be ineffective in promoting emotional well-being.**

Explanation: This statement supports the need for the CALM system by highlighting the shortcomings of traditional methods in fostering emotional health.

**Why other options are incorrect**

- A) While relevant, it does not directly address the necessity of the CALM system.
- C) Preference for isolation contradicts the collaborative focus of the CALM system.
- D) Higher dropout rates in non-CALM schools would support the argument but is less direct than option B.

**29. Answer: C) Other educational frameworks can achieve similar outcomes as the CALM system.**

Explanation: If emotional intelligence can be developed independently, it implies that alternatives to the CALM system may also be effective.

**Why other options are incorrect**

- A) This option suggests the CALM system is unnecessary, which is not a definitive conclusion.
- B) The passage does not claim the CALM system is the only method.
- D) Emotional intelligence is linked to academic success, making this statement incorrect.

**30. Answer: C) Studies indicating that students in traditional educational settings also show high engagement levels.**

Explanation: This finding would weaken the argument for the CALM system by suggesting that engagement can be achieved without it.

**Why other options are incorrect**

- A) Supports the argument by emphasizing the benefits of mindfulness.
- B) Higher attendance rates would strengthen the argument for CALM's effectiveness.
- D) Positive testimonials about collaboration would support the argument for the CALM system.

**31. Answer: B) Individuals with limited income will benefit from small savings instruments.**

Explanation: The passage suggests that small savings instruments are specifically designed to help those with limited income develop savings habits and achieve financial goals.

**Why other options are incorrect**

- A) The passage does not assume that all individuals are aware of the benefits.
- C) While the passage discusses interest rates, it does not imply that individuals disregard risk completely.
- D) Financial literacy is not mentioned as a prerequisite in the passage.



**32. Answer: A) Small savings instruments help integrate lower-income individuals into the formal financial system.**

Explanation: The passage highlights the role of these instruments in promoting financial inclusion, particularly for individuals in rural areas.

**Why other options are incorrect**

- B) The passage states that small savings instruments are beneficial for those in rural areas.
- C) It specifically mentions that they empower individuals, so the government appears to support them.
- D) The passage suggests that these instruments are important for low-income individuals.

**33. Answer: C) Studies show that individuals who use small savings instruments are more financially secure than those who do not.**

Explanation: This statement directly supports the argument by indicating that small savings instruments lead to improved financial security.

**Why other options are incorrect**

- A) While important, it does not directly strengthen the argument about the overall benefit.
- B) This option suggests competition rather than strengthening the case for small savings instruments.
- D) Declining interest rates would weaken the argument, not strengthen it.

**34. Answer: D) Just as health insurance protects against medical expenses, small savings instruments protect against financial emergencies.**

Explanation: This statement parallels the function of small savings instruments as protective financial tools, similar to health insurance.

**Why other options are incorrect**

- A) Budgeting does not parallel the specific benefits of small savings instruments.
- B) This comparison emphasizes risk rather than the protective nature of small savings.
- C) The focus on luxury goods does not relate to the argument made about small savings instruments.

**35. Answer: B) Several studies indicate that many people have stopped using small savings instruments due to lower interest rates.**

Explanation: This statement would weaken the argument by suggesting that people do not see value in small savings instruments anymore, thus contradicting the notion that they encourage saving behavior.

**Why other options are incorrect**

- A) Preference for flexible savings doesn't directly weaken the argument about the importance of small savings instruments.
- C) Decreased government incentives could imply a weakening system but doesn't directly indicate lack of encouraging saving behavior.
- D) Advocacy for higher-risk strategies doesn't negate the utility of small savings instruments; it simply presents an alternative.

**36. Answer: D) The Balkan League was formed with the intent of territorial expansion.**

Explanation: The passage discusses the Balkan states' motivations stemming from nationalistic aspirations to liberate and gain territories, indicating an intent for expansion.

**Why other options are incorrect**

- A) While the Ottoman Empire was involved, the passage does not state it was a unified force.
- B) Economic interests are not mentioned as a primary motivation in the passage.
- C) While nationalistic aspirations are crucial, the specific framing of intent for territorial expansion is more direct.

**37. Answer: C) Disagreements arose regarding the distribution of conquered territories.**

Explanation: The passage states that tensions and disagreements emerged among the allies over territorial distribution after the First Balkan War.

**Why other options are incorrect**

- A) The passage indicates dissatisfaction rather than total satisfaction.
- B) Cooperation did not continue smoothly due to rising tensions.

D) The passage mentions that the League faced disputes rather than disbanding immediately.

**38. Answer: C) Increased tensions from the wars contributed to the outbreak of World War I.**

Explanation: The passage suggests that the consequences of the Balkan Wars led to increased tensions in Europe, which contributed to the outbreak of World War I.

**Why other options are incorrect**

A) The passage does not suggest that cooperation increased.

B) Stability is not mentioned; rather, instability is implied.

D) The wars had a significant impact, contradicting a statement of little effect.

39. Answer: A) Just as states form alliances to achieve territorial security, countries often unite to strengthen their political power.

Explanation: This statement parallels the motivations of forming alliances, as both address collective actions for perceived security or power.

**Why other options are incorrect**

B) This doesn't align well with the passage, which emphasizes nationalistic motives over economic exploitation directly.

C) It mentions disagreement about strategies, which does relate but does not parallel the initial motivations effectively.

D) This statement asserts a justification for the attack but doesn't parallel the motives for joining the alliance like A does.

**40. Answer: B) Economic factors were the primary motivation for the Balkan states to engage in warfare.**

Explanation: This statement would weaken the argument by proposing that economic factors, rather than nationalism, drove the wars.

**Why other options are incorrect**

A) Discussing reforms may imply a shift but does not weaken nationalist aspirations directly.

C) This would distract attention but not weaken the core argument regarding motivations.

D) While external influences could affect actions, it does not negate the internal nationalist drive discussed in the passage.

**41. Answer: C) It relies too heavily on anecdotal evidence, such as the mice's fear of almonds.**

Explanation: The passage critiques the traditional view of inheritance, suggesting that it overlooks significant evidence of epigenetics influencing inheritance, particularly the example of almond-fearing mice. However, this option suggests that the argument relies on singular anecdotal evidence, which does not effectively represent the broader research and studies referenced.

**Why other options are incorrect**

A) The traditional view does ignore environmental influences, but the passage focuses on the flawed notion of inheritance.

B) The passage does point out the impact of parental behavior, rather than strictly dismissing it.

D) While the passage does reference natural selection, it does not imply that adaptations are exclusively due to this mechanism.

**42. Answer: B) Environmental factors can influence genetic expression in ways that impact future generations.**

Explanation: The passage discusses how epigenetic marks can be passed down through generations due to environmental influences, indicating that these factors alter genetic expression in descendants.

**Why other options are incorrect**

A) The passage states that some epigenetic changes escape reversal and are, in fact, passed down.

C) The passage suggests that inherited traits can, indeed, come from parental experiences through epigenetic marks.

D) The passage highlights that epigenetic inheritance is gaining recognition, suggesting it's not rare.

**43. Answer: C) A combination of genes, epigenetic factors, and cultural influences shapes an organism's adaptations.**

Explanation: The passage emphasizes a multifaceted approach to evolutionary processes, acknowledging the roles of genetics, epigenetics, and cultural inheritance collectively.

**Why other options are incorrect**

- A) This conclusion overlooks the significant role of epigenetics and culture.
- B) While culture is important, the passage does not suggest it is more significant than genetic factors.
- D) The passage states that epigenetic changes are relevant in the context of overall inheritance patterns, not exclusively related to cultural inheritance.

**44. Answer: D) Much like a river carves its path through the landscape, cultural evolution shapes the trajectory of human behavior over time.**

Explanation: This analogy parallels the idea that both environmental (physical and cultural) influences can shape evolutionary paths in organisms, similar to how rivers impact landscapes.

**Why other options are incorrect**

- A) This is a reasonable comparison, but it does not align with the specific reasoning patterns seen in the passage regarding epigenetics and genes.
- B) This suggests a static relationship in genetic transmission that contradicts the passage's emphasis on epigenetic change.
- C) This combines adaptation concepts but frames genetics as static rather than evolving with challenges, which is contrary to the passage's implications.

**45. Answer: B) The majority of inherited traits in animals are determined solely by genetic factors without epigenetic modification.**

Explanation: This statement would weaken the argument by suggesting that epigenetic factors do not play a significant role in inheritance, contrary to the passage's discussion about the importance of epigenetic influences.

**Why other options are incorrect**

- A) Demonstrations of epigenetic inheritance would actually support the argument.
- C) While learning is significant, it does not specifically counter the role of epigenetic inheritance.
- D) This suggests that epigenetic changes may be unreliable, but the passage emphasizes the existence and impact of such changes rather than disputing them outright.

**46. Answer: A) The passage implies that economic benefits from the accords will automatically resolve political tensions.**

Explanation: The passage discusses increased economic cooperation without sufficiently addressing that these benefits may not lead to resolving the political issues surrounding the Palestinian plight.

**Why other options are incorrect**

- B) The passage does not claim that all Arab nations support the accords unconditionally; rather, it acknowledges mixed views.
- C) The influence of international opinion is mentioned, but it's not presented as a flaw in the argument.
- D) The passage suggests that prioritizing bilateral relations may divert attention from the Palestinian issue, not eliminate the need for addressing it.

**47. Answer: C) The accords have created new opportunities for trade and investment between Israel and Arab nations.**

Explanation: The passage states that the Abraham Accords have fostered increased economic cooperation and new partnerships, indicating opportunities for trade and investment.

**Why other options are incorrect**

- A) The passage does not limit the benefits of tourism solely to Israel and the UAE.
- B) The passage suggests that technology partnerships will significantly impact the regional economy.
- D) While the passage mentions underlying political issues, it does not claim economic cooperation will have no impact addressing them.

**48. Answer: A) Historical precedent shows that economic cooperation leads to lasting political agreements.**

Explanation: This statement strengthens the argument by providing context that economic cooperation can lead to political resolutions, suggesting a positive outlook for the accords.

**Why other options are incorrect**

- B) Increased military cooperation could imply a security focus rather than overall stability.  
 C) While this option indicates potential, it does not directly strengthen the argument regarding peace.  
 D) This option, while positive, does not explicitly support the potential for broader peace negotiations.

**49. Answer: C) It fails to consider that normalization does not ensure peace and security for all parties.**

Explanation: This flaw highlights that merely establishing normal relations does not guarantee peace in a region with deep-rooted tensions, addressing a limitation in the argument for stability.

**Why other options are incorrect**

- A) While the passage acknowledges tensions, it does not overlook them; it suggests an acknowledgment of their complexity.  
 B) The passage actually does emphasize the importance of both economic and cultural relationships.  
 D) The passage provides context regarding improvements in relationships after the accords but does not present direct evidence.

**50. Answer: C) Their success depends on further cooperation among Arab countries and Israel.**

Explanation: The passage implies that the ongoing success of the accords hinges on the ability of the involved parties to continue working together to address issues such as the Palestinian situation.

**Why other options are incorrect**

- A) The passage does not claim these accords will lead to permanent peace—it presents the potential for stability while acknowledging complexities.  
 B) While the accords could catalyze discussions about the Palestinian issue, the passage does not conclude they will address it directly.  
 D) While controversies may persist, the passage emphasizes the potential positive trajectories of the accords beyond controversy.

### General Knowledge

51. **Correct Answer:** A. The Thar Desert

**Explanation:** Thar Desert not mentioned in the passage; it lies northward.

**Given in Passage:** Not Given

52. **Correct Answer:** A. The Law of the Sea Convention (UNCLOS)

**Explanation:** Not directly mentioned, but relevant since EEZ demarcations fall under UNCLOS.

**Given in Passage:** Not Given

53. **Correct Answer:** B. 2 and 3 only

**Explanation:** Sir Creek indeed lies between Gujarat (India) and Sindh (Pakistan) and opens into the Arabian Sea near Kori Creek. However, it is not entirely within Indian territory; it is a disputed estuary.

54. **Correct Answer:** D. 1, 2 and 3

**Explanation:** Control over the creek gives rights to **fishing, hydrocarbon exploration**, and affects **maritime limits** extending from the Rann of Kutch.

All statements correct.

55. **Correct Answer:** B. INS Dwarka

**Explanation:** **INS Dwarka**, located near Okha (Gujarat), is the westernmost Indian naval station close to Sir Creek and used for surveillance of the area.

56. **Correct Answer:** A. 1 and 2 only

**Explanation:** Sir Creek supports **fish and prawn breeding** and reduces **coastal erosion** via mangroves. It is **not part of Ramsar-designated wetlands** (Pakistan's Indus Delta is).

57. **Correct Answer:** A. India signed FTAs with Japan and South Korea prior to TEPA.

**Given in Passage:** Not Given

58. **Correct Answer:** B. 2 and 3 only

**Explanation:** EFTA countries (Switzerland, Norway, Iceland, Liechtenstein) are *not part of the EU's customs union*. The TEPA is the first FTA to include direct investment targets (\$100 billion in 15 years). It also includes IPR and sustainable clauses.

**2 and 3 only.**

59. **Correct Answer:** B. 1, 2 and 3 only

**Explanation:** Each EFTA country brings sectoral specialization — Switzerland (finance & precision tech), Norway (fisheries & green energy), Iceland (digital services & sustainability). Defence is not a focus area.

60. **Correct Answer:** B. 1 and 3 only

**Explanation:** EFTA was created in 1960 under the Stockholm Convention as a counter to the EEC. Its secretariat is in Geneva; only Norway and Switzerland use their own currencies — not all are in the Eurozone.

61. **Correct Answer:** A. 1 – 4 – 2 – 3

**Explanation:**

Chronologically:

- India–ASEAN (2009),
- India–Japan (2011),
- India–UAE (2022),
- India–EFTA (2024).

62. **Correct Answer:** C. 1, 2 and 3

**Explanation:** All three pairs are correctly matched as per respective FTA objectives.

63. **Correct Answer:** C. 1 and 3 only

**Explanation:** Statements 1 and 3 are correct (these are Bhutan's first rail links and they use India's broad gauge). The passage said completion in 3–4 years, not necessarily by 2028.

64. **Correct Answer:** D. 1, 2, 3 and 4

**Explanation:** All four reflect true motivations — trade, connectivity, tourism, and strategic balancing vis-à-vis China.

65. **Correct Answer:** C. 1 and 3 only

**Explanation:** The Banarhat–Samtse route crosses gentler plains of Dooars compared to the hilly Assam–Bhutan frontier. The hydropower-focused corridor belongs to central Bhutan, not Samtse.

**66. Correct Answer:** B. Act East Policy

**Explanation:** The project aligns with the **Act East Policy**, enhancing connectivity between the northeast and Himalayan neighbours.

**67. Correct Answer:** A. 1 and 2 only

**Explanation:** The rail link complements BBIN and BIMSTEC connectivity goals but not the ASEAN-oriented Trilateral Highway.

**68. Correct Answer:** D. 1, 2 and 3

**Explanation:** All three facts are correct: India dominates Bhutan's trade and investment, buys most of its hydropower, and Bhutan's Ngultrum is pegged to the rupee.

**69. Correct Answer:** A. 1 and 2 only

**70. Correct Answer:** A. 1 and 2 only

**Explanation:** The MiG-21 was India's *first supersonic fighter*, inducted in **1963**. It was not part of the 1962 war; hence statement 3 is incorrect.

**71. Correct Answer:** A. 1, 2 and 4 only

**Explanation:** Bison upgrade added **BVR missiles, digital cockpit, radar and EW upgrades**. It retained a **single engine**; hence statement 3 is wrong.

**72. Correct Answer:** A. 1 and 2 only

**Explanation:** The MiG-21 fought in the **1971 and Kargil wars**, and was used in **Balakot (2019)**, but not in the **1962 war**.

**73. Correct Answer:** A. 1, 2 and 3 only

**Explanation:** Developed by **Mikoyan-Gurevich (USSR)**, the MiG-21 had **delta wings** and could fly **Mach 2+**; no US collaboration existed.

**74. Correct Answer:** A. 1, 2 and 3 only

**Explanation:** Rafale (France), Tejas (India), Sukhoi-30MKI (Russia-India). Mirage-2000 belongs to **France**, not UK.

**75. Correct Answer:** A. 1 and 2 only

**Given in Passage:** Yes (1 and 2); 3 is incorrect.

**76. Correct Answer:** A. 1, 2 and 3 only

**Given in Passage:** Yes (explicitly mentioned).

**77. Correct Answer:** C

**Explanation:** The Kolkata-Guangzhou route by IndiGo has been announced to restart.

**78. Correct Answer:** B. Reviving trade, education, and mobility.

**Given in Passage:** Yes.

**79. Correct Answer:** B. Education and pharmaceuticals

**Given in Passage:** Not Given (requires external reasoning — students & pharma supply chains hit).

**80. Correct Answer:** B. 1, 2 and 4 only

**Given in Passage:** Not Given (analytical inference).

### Legal Reasoning

**81. Answer: B**

Explanation: As per the information provided in the passage, undue influence may arise in cases where one party is in a position to dominate the will of the other and takes unfair advantage. Here, Radha was managing her property on her own, so her will could not be dominated by Sumit merely because she was residing with him.

**82. Answer: A**

Explanation: As per the information provided in the passage, the contract based on the happening of a collateral event is a contingent contract. Here, the event of making two goals in the final took place, so the club is liable to pay Rs. 2 crores to Sachin.

**83. Answer: A**

Explanation: As per the information provided in the passage, if an agreement is based on two things, one legal and the other illegal, it is a contract to the extent of the legal aspects, but in the case of illegal objects, the contract is a void agreement.

**84. Answer: C**

Explanation: As per the above-stated facts, it is clear that A saved B's life in a gratuitous manner without B's prior consent, so A is not entitled to claim any compensation.

**85. Answer: B**

Explanation: As per the information provided in the passage, there has to be free will for a valid contract. A was distressed due to bleeding, preventing him from making a free-will decision. Therefore, there was no valid contract, and no breach occurred.

**86. Answer: C**

Explanation: As per the information provided in the passage, all activities done in furtherance of a common intention make all members of the crime severally liable. The murder of the cashier was committed in furtherance of a common intention of robbery, making all of them, including Shanu, liable for robbery and murder.

**87. Answer: C**

Explanation: As per the information provided in the passage, it is not a question of whether the person in possession of the property is the owner, but rather if there is a dishonest movement of movable property out of the possession of the person. Here, A is liable for theft as the car could be regarded as 'property belonging to another' since it was in the possession and control of the garage.

**88. Answer: A**

Explanation: As per the information provided in the passage, there must be an intention to cause death or cause such bodily injury likely to cause death. It doesn't state that the death must be of the intended person. Here, Nina had the intention to kill Jacob but killed Jack, making her liable for culpable homicide.

**89. Answer: C**

Explanation: As per the information provided in the passage, Ramesh is liable for mischief as he had the intention to cause wrongful loss to Shyam, regardless of the fact that he was also the joint owner of the car and the damage affected him equally.

**90. Answer: B**

Explanation: As per the information provided in the passage, it is mandatory to have the intention to commit an offense while entering another person's property. Here, A did not have any intention to insult B when he entered the property, so he is not liable for the offense.

**91. Answer: D**

Explanation: As per the information provided in the passage a person cannot be denied based on place of birth. In this case, A was not allowed admission because he was not a resident of Punjab, not because he was born in and resided in Odisha. Therefore, there is no discrimination based on place of birth.

**92. Answer: C**

Explanation: As per the information provided in the passage no person can be proceeded against twice for the same offense. Here, Ajay was not proceeded against by any court of law; it was a departmental proceeding, which does not amount to a legal proceeding.

**93. Answer: C**

Explanation: As per the information provided in the passage limitation bars a person from claiming a remedy beyond the limitation period, but it does not end the right to claim the amount. Once Ankit paid any amount to Mohit, the limitation period is considered to be revived, allowing Mohit to claim the remaining money.

**94. Answer: C**

Explanation: As per the information provided in the passage the law is ultra vires as the parliament, including the state legislature, does not have the power to amend the basic doctrine of the preamble of the Indian Constitution.

**95. Answer: A**

Explanation: As per the information provided in the passage the state shall make its policy, not regulation. Therefore, the state should follow the principle of equal pay for equal work, not the private companies.

**96. Answer: D**

Explanation: As per the information provided in the passage there was no unlawful chattel as the insect was removed for Shubham's benefit. It was derived from his body for his benefit, so Shubham has no claim over the profit made from the insect.

**97. Answer: D**

Explanation: As per the above-stated facts, Yash took reasonable care and there was no breach of the duty of care.

**98. Answer: C**

Explanation: As per the information provided in the passage Ramesh is vicariously liable for the act of his servant. Since the VNFI principle does not apply in rescue cases, option D is not valid.

**99. Answer: A**

Explanation: As per the information provided in the passage Deepu's legal right was violated, and he suffered an injury, so he is entitled to damages.

**100. Answer: C**

Explanation: As per the information provided in the passage there has to be reasonable foreseeability to constitute negligence. In this situation, it cannot be foreseen that the ball may reach the height of a TV tower.

**101. Answer: D**

Explanation: The correct answer is D. In the passage, it is clearly mentioned that only certain acts, i.e. physical contact, showing pornographic material, and unwelcome physical or verbal conduct of a sexual nature, will amount to sexual harassment. In the present case, Kishore has not conducted any such act, so he will not be held liable under the POSH Act. A cannot be the answer as domestic workers are covered under the act. B cannot be the answer as the author is silent about any such legislation. C cannot be the answer as an internal inquiry can be established only against a person who has committed sexual harassment at the workplace, but Kishore has not committed any such act.

**102. Answer: B**

Explanation: The correct answer is B. In the passage, there is a clear definition of sexual harassment at the workplace. In the present case, it is clear that Kratika was harassed by her boss based on preferential treatment given to employees who provided sexual favors to the boss, so it is a clear case of sexual harassment. Options A and D are irrational. Option C is irrelevant in the present case, so these options cannot be the answers.

**103. Answer: A**

Explanation: The correct answer is A. In the passage, it is clearly mentioned that if a person makes an implied promise of preferential treatment for any sexual advantage, such a person will be held liable under the POSH Act, so Kratika's boss is liable under the POSH Act. B cannot be the answer as it states that Kratika's boss put her in a

detrimental threat when she gave a sexual favor to him, which is not true according to the facts of the question. C cannot be the answer as it defines a moral law not mentioned by the author in the passage.

**104. Answer: C**

Explanation: The correct answer is C. In the passage, the author has mentioned that there are certain loopholes in the drafting of the POSH Act, including what constitutes sexual harassment, the obligations of an employer, remedies/safeguards available to the victim, and the procedure of investigation. However, the author has not stated anything about gender discrimination in cases of sexual harassment at the workplace.

**105. Answer: A**

Explanation: Under the POSH Act, sexual harassment includes any unwelcome physical, verbal, or non-verbal conduct of a sexual nature. Mr. Arjun's unwelcome advances, comments, and the request to meet outside of work hours for "discussions about her career" fall within the definition of sexual harassment as outlined in the Act. The law does not require physical contact to establish sexual harassment; unwelcome behavior that makes the employee feel uncomfortable or threatened is sufficient. Therefore, Sangeeta's complaint has a strong basis under the POSH Act.

**106. Answer: A**

Explanation: The correct answer is (A). In the passage, it is clearly mentioned that the complainant should follow a step-by-step process. The complainant cannot directly report to the Superintendent of Police or magistrate, so A is the correct answer.

**107. Answer: C**

Explanation: The correct answer is (C). In the last paragraph of the passage, the author made it clear that the magistrate himself cannot investigate the matter, but he can supervise and direct the police officer.

**108. Answer: C**

Explanation: The correct answer is (C). In the passage, it is clearly mentioned that a person can reach the magistrate if they are not satisfied with the investigation process of the police officer. Here, the magistrate is acting as an appellate authority. If the police officer is not registering the FIR, there is no question of a charge sheet. Under the present law, if the charge sheet has not been submitted to the magistrate, he cannot order a fresh investigation, so this will increase the powers of police officers. B cannot be the answer as it is against the opinion of the author, who stated that the magistrate can direct the officer in charge of the police station to make a proper investigation and can further monitor the same (though he should not investigate himself). Options A and D are irrelevant.

**109. Answer: B**

Explanation - According to the Supreme Court's decision in Sakiri Vasu vs. State of U.P., if the police refuse to register an FIR, the aggrieved person can approach the Superintendent of Police with a written application under Section 154(3) Cr.P.C. If this does not resolve the issue, further remedies are available, including approaching a Magistrate under Section 156(3) Cr.P.C. Therefore, Ravi's appropriate course of action is to escalate the matter to the Superintendent of Police.

**110. Answer: B**

Explanation - In line with the rulings in Sakiri Vasu vs. State of U.P. and others, when the police and the Superintendent of Police do not act on a complaint, the aggrieved person can approach a Magistrate under Section 156(3) Cr.P.C. The Magistrate has the authority to direct the police to register an FIR and ensure that a proper investigation is conducted. This option provides Meena with a judicial remedy to address her grievance.

## Quantitative Technique

### Explanation

111. (a)

112. (d)

113. (b)

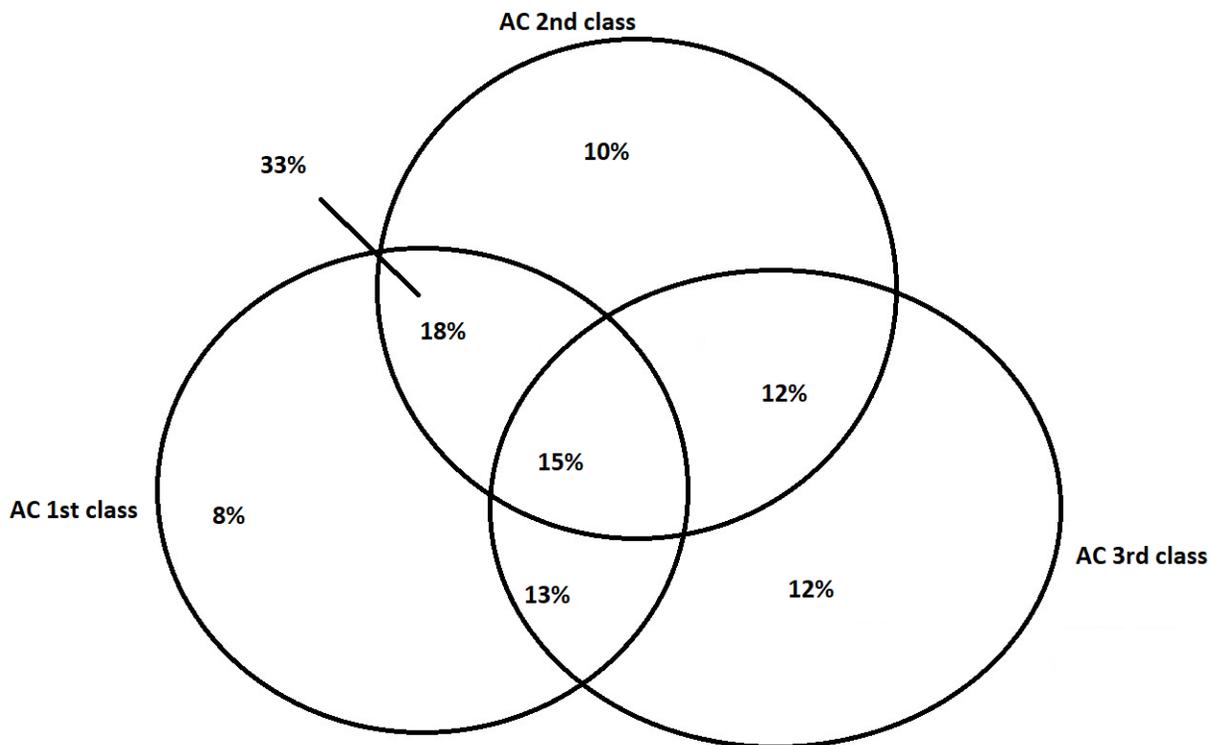
114. (a)

115. (b)

Total passenger = 1000

Non AC passenger = 120

Passenger who are travelling with AC class =  $1000 - 120 = 880$  ( 88%)



Passenger Travelling in only one class  
 $= 88\% - (13\% + 18\% + 15\% + 12\%) = 30\%$

1<sup>st</sup> : 2<sup>nd</sup> : 3<sup>rd</sup>

4 : 5 : 6

1<sup>st</sup> =  $30 \times \frac{4}{15} = 8\%$

2<sup>nd</sup> =  $30 \times \frac{5}{15} = 10\%$

3<sup>rd</sup> =  $30 \times \frac{6}{15} = 12\%$

Colony	Male	Female	Total
Red	440	360	800
Blue	600	600	1200
Green	600	500	1100
Pink	400	500	900

116. C Required Difference =  $500 - 440 = 60$

117. D Required sum =  $(360 + 600 + 500 + 500) = 1960$

118. B Number of males who live in pink flat = 400

Number of peoples who live in Blue flat = 1200

Required percentage =  $400/1200 * 100 = 33\%$

119. C Required percentage =  $(440 + 600 + 600 + 400)/4000 * 100 = 51\%$

120. D Required ratio =  $360:600 = 3:5$