

Question 2

Passage 1: When divided by its degrees of freedom (i.e., based on the number of groups), the numerator of the F ratio is obtained. Under the truth of the null hypothesis, the sampling distribution of the F ratio depends on the degrees of freedom for the numerator and the denominator. Model a treatment applied to group A by increasing every score by X. (This model maintains the underlying assumption of homogeneous variances. In practice it is rare – if not impossible – for an increase of X in a group mean to occur via an increase of each member's score by X.) This will shift the distribution X units in the positive direction, but will not have any impact on the variability within the group. However, the variability between the three groups' mean scores will now increase. If the resulting F ratio raises the value to such an extent that it exceeds the threshold of what constitutes a rare event (called the Alpha level), the Anova F test is said to reject the null hypothesis of equal means between the three groups, in favor of the alternative hypothesis that at least one of the groups has a larger mean (which in this example, is group A). Handling violation of population normality. Ranking is one of many procedures used to transform data that do not meet the assumptions of normality. Conover and Iman provided a review of the four main types of rank transformations (RT).

Passage 2: Significance. "Kleinert was a conductor of the 'true to the works' school, coming from the tradition of Leibowitz, Toscanini and Scherchen. He knew how to elicit tempo, accuracy, clarity and dancing elegance from every score," Dr. M. Meyer, in "Rundfunk Sinfonieorchester 1923-1998". An excellent percussion technique, a great sense of sound and an absolute ear were Kleinert's essential qualities.

Question: Does "the various compositions" have a similar meaning to "every score" in Passage 1 or Passage 2? Please answer 1 or 2 and then explain.

GPT-4's Response

2

In Passage 2, "every score" refers to the musical compositions that Kleinert conducted, emphasizing his ability to elicit tempo, accuracy, clarity and dancing elegance from them. This meaning is more closely related to "the various compositions" as it refers to a variety of musical pieces. In Passage 1, "every score" refers to individual data points in a statistical analysis, which is not related to the context of musical compositions. ✓

Question 3

Passage 1: Nearby villages include Ball Hill, Penwood, Highclere, wash water and East Woodhay as well as the town of Newbury. Housing Estates. There are a few housing estates within Woolton Hill. These include Greenlands, Copnor, Harwood Rise, Paddock End, Harwood Place and Woolton Lodge Gardens. Paddock End was recently built and is a small estate encompassing around 12 houses. Harwood Place is currently under construction, with 49 houses (including six affordable houses) as well as including a children's play area and some community land. The new Harwood Place development suffered many objections on multiple occasions, yet it went through successfully. Harwood Place and Paddock End were both built on the former 'Harwood Paddock', which was supposedly protected from construction until the new Paddock End development was completed, which took up about 1/6 of the paddock. However, the new Harwood Place development will cover the rest of the field. Paddock End was constructed by Linden Homes, while Harwood Place is being constructed by Bloor Homes. Woolton Lodge Gardens is another small estate, only having around 15 houses within its borders.

Passage 2: The wilderness camps provide little more than shelter and wash water; visitors must supply their own food, drinking water and firewood. Visitors. During the year 1 April 2017 to 31 March 2018, the park received a total of 52,463 visitors up from 48,221 in the previous year. History. The Kalahari Gemsbok National Park in South Africa was established on 31 July 1931 mainly to protect the migrating game, especially the gemsbok, from poaching. In 1948 an informal verbal agreement was made between the then Bechuanaland Protectorate and the Union of South Africa to set up a conservation area in the contiguous areas of the two lands. In June 1992 representatives from the South African National Parks Board (now SANParks) and the Department of Wildlife and National Parks of Botswana set up a joint management committee to manage the area as a single ecological unit. A management plan was drafted, reviewed, and approved in 1997. The parties agreed to cooperate in tourism and share equally in park entrance fees. On 7 April 1999, Botswana and South Africa signed a historic bilateral agreement whereby both countries undertook to manage their adjacent national parks, the Gemsbok National Park in Botswana and the Kalahari Gemsbok National Park in South Africa as a single ecological unit. The boundary between the two parks had no physical barriers, although it is also the international border between the two countries.

Question: Does "a bathing source" have a similar meaning to "wash water" in Passage 1 or Passage 2? Please answer 1 or 2 and then explain.

GPT-4's Response

2

In Passage 2, "wash water" is provided at the wilderness camps, and it seems to serve a similar purpose to "a bathing source," as both imply water used for cleaning and personal hygiene. Passage 1 does not mention "wash water" or a similar term. ✓

Question 4

Passage 1: The vast majority of reindeer owners in Finland practise reindeer husbandry as a supplement to agriculture and forestry. With regard to ethnic groups in Finland, reindeer herding is from the economic point of view the most important for Sámi people. The annual total revenue from reindeer husbandry in Finland is estimated to be 60 million Euro with the main product being meat. In 1999–2000, 93,000 reindeer were slaughtered, producing 2.1 million kilograms of meat. In addition to meat production, reindeer are also an extremely valuable resource for both summer and winter tourism, as they are one of the main attractions for foreign tourists. Numbers from 1994 to 2000 show that 60-80% of reindeer herders' income is from meat and about 10% from compensation and 10% from aid. Only a **small part** comes from investments and other incomes. Numbers from the same years show that about 40% of the costs are related to herding activities, about 20% of costs to cross country traffic and the rest to damages caused by reindeer, administrative costs, office supplies and equipment and other utilities. Russia. Reindeer breeding of the Kola Sámi in the northwest of Russia underwent a transformation in the 19th century with the arrival of 65 Komi reindeer herders with their 600 deer. Reindeer herding on the basis of semi-grazing was transformed into large-scale farms with a focus on productivity.

Passage 2: Upon graduation, Gould accepted a position at Randolph-Macon Woman's College in Lynchburg, Virginia, where he spent three years teaching and doing stage work. He made his professional theatre debut in 1955 as Thomas Jefferson in "The Common Glory" in Williamsburg. In 1956, Gould was offered a professorship in the drama department at the University of California, Riverside, which he accepted. He taught there until 1960 when he decided to try professional acting himself. He had difficulty finding acting jobs at first and had to take work as a security guard and as a part-time acting teacher at UCLA. Gould made his film debut in an uncredited role in "Two for the Seesaw" (1962). His first credited role was a **small part** in "The Coach" (also 1962). That same year he appeared as Prosecutor Tom Finney on the TV western "The Virginian" in the episode titled "The Accomplice." After uncredited appearances in Alfred Hitchcock's "Marnie" (1964) and "The Satan Bug" (1965), Gould gradually found more work with credited roles in "The Yellow Canary" (1964), a Rod Serling film starring Pat Boone, Jack Klugman, and Barbara Eden, "Inside Daisy Clover" (1965), and "Harper" (1966) starring Paul Newman. Gould appeared regularly in television in the 1960s and early 1970s, including roles in "Dennis the Menace", "Dr. Kildare", "Hazel", "The Twilight Zone", "The Donna Reed Show", "Get Smart", "Hogan's Heroes", "I Dream Of Jeannie", "The F.B.I. ", "The Big Valley", "", "The Man from U.N.C.L.E.

Question: Does "minor role" have a similar meaning to "small part" in Passage 1 or Passage 2?
Please answer 1 or 2 and then explain.

GPT-4's Response

2. The term "minor role" has a similar meaning to "small part" in Passage 2, where it describes the size or importance of a character that an actor plays in a film or television show. In this passage, it's mentioned that Gould's first credited role was a small part in "The Coach." ✓

Question 5

Passage 1: Emissions per person-kilometre travelled are nearly the same for private car and for ferry. They are powered by two Daihatsu model 8DSMB-32 turbo-charged diesel engines which each develop 2238 kW at 600rpm, and have hand-controllable pitch propellers. The hull and lower cabin area are of welded steel construction and the upper cabin and two wheelhouses are aluminium. Wharves. <mapframe width="350" height="300" align="center" text="Wharves served by the F1 ferry" longitude="151.2477" latitude="-33.8326" zoom="12"> "type": "ExternalData", "service": "page", "title": "Circular Quay ferry wharf.map" "type": "ExternalData", "service": "page", "title": "Manly ferry wharf.map"] </mapframe> Circular Quay. Sydney Ferries services use Wharf 3 at Circular Quay for services to Manly. Wharf 3 is specially designed to allow for double deck boarding and alighting, lowering dwell time for ferries. Manly. This wharf serves the suburb of Manly and is located opposite the harbour end of The Corso on The Esplanade. The wharf was designed to allow for double deck boarding on the "a" side of the wharf. The "B" side is used by Manly Fast Ferries for services to Circular Quay while My Fast Ferry and Captain Cook Cruises Harbour Explorer use the Manly Hotel wharf also known as the East Wharf, just south east of the main wharf, for Hop On/Hop off services around Sydney Harbour with the former also operating a loop service to Darling Harbour.

Passage 2: Other musicians included former Mothers Of Invention drummer Billy Mundi, fiddle player Vassar Clements, saxophonist David Sanborn, bassist Jim Colegrove and longtime Neil Young sideman Ben Keith on pedal steel guitar and dobro. John Simon, who produced the band's first two albums, played piano on several tracks. The resulting album, "Sweet Dreams and Quiet Desires," was released on UA's Avalanche label in April 1973. In addition to the U.S. pressing, editions of the record were manufactured and sold in the UK, Germany, France, Italy, Japan, and Australia. The press materials promoting the album featured a blurb of approval by Van Morrison. The album was well-received critically but did not sell in great numbers. The 11 tracks included traditional bluegrass songs like "Handsome Molly" and "Clinch Mountain," plus originals including Jon Gershen's jazzy "Dragonfly" and David Gershen's country/rock tune "The Distance." Lead vocals were distributed more or less evenly by all three members. Avalanche/UA also issued a single from "Sweet Dreams" in the United States and the UK featuring two songs by David Gershen. The "a" side of the 45 was "Don't Know Where I'm Going," and the "B" side was "Marble Eyes." Second album.

Question: Does "main half of an album" have a similar meaning to "a" side" in Passage 1 or Passage 2? Please answer 1 or 2 and then explain.

GPT-4's Response

2. The term "main half of an album" has a similar meaning to "A" side in Passage 2. In this context, the "A" side of the 45 (a type of record) refers to the primary or more prominent side of the record, containing the main songs or tracks. The "B" side typically contains additional, less-prominent songs. ✓

Question 6

Passage 1: The surveyor and engineer Thomas Telford also made substantial advances in the engineering of new roads and the construction of bridges. His method of road building involved the digging of a large trench in which a foundation of **heavy rock** was set. He also designed his roads so that they sloped downwards from the centre, allowing drainage to take place, a major improvement on the work of Trésaguet. The surface of his roads consisted of broken stone. He also improved on methods for the building of roads by improving the selection of stone based on thickness, taking into account traffic, alignment and slopes. During his later years, Telford was responsible for rebuilding sections of the London to Holyhead road, a task completed by his assistant of ten years, John MacNeill. It was another Scottish engineer, John Loudon McAdam, who designed the first modern roads. He developed an inexpensive paving material of soil and stone aggregate (known as macadam). His road building method was simpler than Telford's, yet more effective at protecting roadways: he discovered that massive foundations of rock upon rock were unnecessary, and asserted that native soil alone would support the road and traffic upon it, as long as it was covered by a road crust that would protect the soil underneath from water and wear. Also unlike Telford and other road builders, McAdam laid his roads as level as possible. His road required only a rise of three inches from the edges to the center.

Passage 2: I was into anything that was loud". He became a freely opinionated and passionate fan of **heavy rock** and protopunk, and took a job working at local record store Rubicon Records. Black Flag. In 1976, Morris co-founded Black Flag (then-known as Panic) along with guitarist Greg Ginn. Their work ethic proved too challenging for some early members; Ginn and Morris had an especially hard time finding a reliable bass guitarist, and often rehearsed without a bassist, a factor that contributed to the development of Ginn's distinctive, often low-pitched guitar sound. The band went through three bass players before Chuck Dukowski joined and then Robo answered a "Pennysaver" ad and became their drummer. After a number of line-up changes, Morris recorded vocals for the first Black Flag EP "Nervous Breakdown". After two years in the band, Morris left the band citing, among other reasons, creative differences with Ginn, and his own "freaking out on cocaine and speed." Circle Jerks. After leaving Black Flag in 1979, Morris founded the Circle Jerks, along with former Redd Kross guitarist Greg Hetson. Cited as one of the most important hardcore punk groups, the Circle Jerks were active until 1990, when Hetson left the band to continue playing guitar and release a number of albums with Bad Religion.

Question: Does "hard rock and roll" have a similar meaning to "heavy rock" in Passage 1 or Passage 2? Please answer 1 or 2 and then explain.

GPT-4's Response

2. In Passage 2, "heavy rock" refers to a genre of music that is characterized by loud, powerful sound and strong beats. The term "hard rock and roll" would have a similar meaning in the context of Passage 2, where it discusses the musical preferences of the subject. Passage 1, on the other hand, is about the engineering of roads and does not mention music or related terminology. ✓

Question 8

Passage 1: In the present case, where the appellant's driver was already under an obligation towards other users of the road to drive with reasonable care, to hold him—and his employer—liable for economic loss resulting from his negligent driving would not foist any additional burden upon him at all. The court held that, on each of those policy considerations, the appellant ought to be held liable; in other words, the negligence of the appellant's employee was wrongful. The court held further that the test for determining remoteness of damage (under the rubric of legal causation) was a **flexible one**. That meant that the existing criteria of foreseeability, directness, etcetera, should not be applied dogmatically, but in a flexible manner, so as to avoid a result which was so unfair or unjust that it was regarded as untenable. Each of the various criteria led to the conclusion that the loss suffered by the respondent was not too remote; furthermore, the conclusion that the appellant should be held liable was not untenable. The appeal was accordingly dismissed.

Passage 2: A boning knife is used to remove bones from cuts of meat. It has a thin, flexible blade, usually about 12 cm to 15 cm (5 or 6 inches) long, that allows it to get in to small spaces. A stiff boning knife is good for beef and pork, and a **flexible one** is preferred for poultry and fish. Fillet. Fillet knives are like very flexible boning knives that are used to fillet and prepare fish. They have blades about 15 cm to 28 cm (6 to 11 inches) long, allowing them to move easily along the backbone and under the skin of fish. Cheese knives. Cheese is varied and often challenging to cut. Accordingly, various styles of cheese knives and have been developed. A wire, rather than a knife, is often used to cut cheese. Soft cheese.

Question: Does "malleable knife" have a similar meaning to "flexible one" in Passage 1 or Passage 2? Please answer 1 or 2 and then explain.

GPT-4's Response

2. A "malleable knife" would have a similar meaning to a "flexible one" in Passage 2, as it refers to the flexibility of a knife used for specific purposes such as cutting and preparing meat or fish. In this passage, the context is about knives used in food preparation, and a malleable or flexible knife would be able to bend and adapt to various cuts and shapes of the food being prepared. ✓

Question 9

Passage 1: On 6 January 1954 "WJ474" a twin-engined Vickers Valetta training aircraft of No. 2 Air Navigation School Royal Air Force crashed near RAF Bovingdon just after takeoff in bad weather. Accident. The Valetta was authorised to carry out a pilot and navigation exercise from RAF Thorney Island to RAF Bovingdon and return. The flight was also to be used to transport a Rugby team for a match at RAF Halton. The aircraft had completed the first leg from Thorney Island to Bovingdon with 16 passengers without incident. For the return flight an extra passenger was carried although the aircraft had only 16 passenger seats. The pilot had not played in the Rugby match but the other crew members had. The Valetta took off at 17:16 with a visibility of 1200 yards in snow.

Passage 2: Events. The Hike currently comprises four different competitions, each of different lengths and following a slightly different route. The competitions are identified below. Routes and checkpoints. The hike does not prescribe a specific route for hikers to use. It publishes a series of checkpoints from which a navigation exercise will deduce the best route to take. In most cases there is usually one obvious path, however, there are some sections where a choice can be made by the navigator. Event records. Records do not include times before 2003. Marketing and branding. The Three Towers Hike has adopted the Scout Association's branding style including the use of the SerifBlack font family in Scout Purple and Green.

Question: Does "pilotage training" have a similar meaning to "navigation exercise" in Passage 1 or Passage 2? Please answer 1 or 2 and then explain.

GPT-4's Response

1. "Pilotage training" has a similar meaning to "navigation exercise" in Passage 1. In Passage 1, it is mentioned that the Vickers Valetta aircraft was part of a pilot and navigation exercise from RAF Thorney Island to RAF Bovingdon and return. This implies that the pilot was carrying out a training exercise related to navigation, which can be considered similar to "pilotage training." In Passage 2, the navigation exercise refers to a hiking event where hikers need to navigate through different checkpoints, which is not related to pilotage training. ✓

Question 10

Passage 1: Also, for a few games between 1958 and 1965, the Bruins wore gold pants. In 1967, the Bruins retired the gold uniforms and reinstated the black uniforms with **gold numbers**. As with the white uniforms, they endured several cosmetic changes until 1995. The gold socks, which had numerous striping modifications since 1934, was briefly retired in favor of wearing white socks full-time. It was brought back for the 1969–70 season and would be paired with the regular black uniforms for the next 47 seasons. Starting with the 1995–96 season, the Bruins released a new uniform set, featuring the updated "Spoked B" logo. The primary uniforms featured a thick contrasting stripe that extended from sleeve to sleeve. In addition, a gold third jersey was released, featuring the infamous "Pooh Bear" logo (an homage to Winnie the Pooh). The gold thirds were used until 2006, after which the Bruins wore throwback black uniforms based on the 1970s design. Moving to the Reebok Edge template in 2007, the Bruins unveiled new uniforms with the current "Spoked B" logo. The overall design borrowed a few elements from the 1970s uniforms, and also unveiled a new rendition of the original walking bear logo on the shoulders.

Passage 2: Prices for dedicated virtual numbers can vary. Some numbers, often called **gold numbers**, are more easy to recognise, and therefore more expensive to lease. Senders may also get creative and choose a vanity number. These numbers spell out a word using the keypad, like +1-(123)-ANUMBER. Short codes. Short codes offer very similar features to a dedicated virtual number, but are short mobile numbers that are usually 5-6 digits. Their length and availability are different in each and every country. These are usually more expensive and are commonly used by enterprises and governmental organisations. For mass messaging, short codes are preferred over a dedicated virtual number because of their higher throughput, and are great for time-sensitive campaigns and emergencies. In Europe the first cross-carrier SMS shortcode campaign was run by Txtbomb in 2001 for an Island Records release, In North America it was the Labatt Brewing Company in 2002. Over the past few years mobile short codes have been increasingly popular as a new channel to communicate to the mobile consumer.

Question: Does "vanity character" have a similar meaning to "gold numbers" in Passage 1 or Passage 2? Please answer 1 or 2 and then explain.

GPT-4's Response

2, In Passage 2, vanity numbers and gold numbers are mentioned in the context of dedicated virtual numbers. Vanity numbers spell out a word using the keypad, while gold numbers are more recognizable and expensive to lease. Both terms relate to special types of phone numbers, which is not discussed in Passage 1. ✓

Question 11

Passage 1: Cross Rhythms' Tim Holden said "this at **first hearing** may seem like stereotypical modern worship. But a closer listen will reveal the songwriting craft and skilful production which go into each of Wickham's albums and this could easily be his strongest yet." Holden wrote "It is a sign of the maturity and depth of this album that no one track jumps out as being head and shoulders above the rest and that any two listeners will probably choose different tracks as their favourite while the Scripture-based lyrics draw us continually back to the Godhead." Indie Vision Music's Jonathan Andre said "is one of my favourite worship albums in 2011, and if you want to continue to dive into the Lord's presence; look no further than Phil's latest effort." Jesus Freak Hideout's Tyler White said "'Response' is perhaps his most mainstream album to date". White wrote "It would be easy to dismiss this album as a step back for Wickham, since the feel of the album seems a bit Vanilla compared to his Neapolitan past, but that would be a disservice to his talent. Wickham's songwriting is in a higher caliber than most songs on Christian radio right now, and the San Diego songster pours his heart out with solid arrangements and beautiful thought-out metaphors that feel natural and uncontrived." Jesus Freak Hideout's Ryan Barbee said "sadly, I must say that the album as a whole does not reach the standards that Wickham had established with his previous releases. Still, there are some incredible glimpses of genius even if they take a couple of listens before they can be observed. But for this reviewer, the response is still very mixed." Louder Than The Music's Jono Davies said "to summarise, this is a very good album.

Passage 2: The **first hearing** for the case was held in April 2015 at the District Court at The Hague. The District Court ruled in June 2015 in favor of Urgenda, and required the Netherlands government must achieve 25% reduction in carbon dioxide emissions from 1990 levels by 2020. The Court found that prior to 2010, the state had planned to have 30% reductions by 2020, but since 2010, had changed their policy and reduced the goal to 14-17%. While the state had argued that the Netherlands' net contribution of carbon dioxide emissions was not as significant as other major countries, the Court said in its ruling "The state should not hide behind the argument that the solution to the global climate problem does not depend solely on Dutch efforts. Any reduction of emissions contributes to the prevention of dangerous climate change and as a developed country the Netherlands should take the lead in this." The ruling asserted that the Dutch government was legally bound to reduce emissions to protect human life, and that the costs associated with a 25% reduction were not unreasonably high. The court did express concern about respecting the legislative process, and set the requirement to 25%, the minimum that IPCC and other reports estimated was possible for developed countries that was necessary to prevent dangerous climate change. Court of Appeals. The Dutch government appealed the ruling over multiple actions through 2018 to the Court of Appeals at the Hague. The state argued that the District Court's orders exceeded the "trias politica", the Dutch's separation of powers, by creating environmental policy through its rulings. In these appeals, Urgenda further stressed the human rights issue, and introduced assertions that the Dutch government was bound by Articles 2 and 8 of the European Convention on Human Rights (ECHR) to address emissions, which the state refuted.

Question: Does "opening legal proceeding" have a similar meaning to "first hearing" in Passage 1 or Passage 2? Please answer 1 or 2 and then explain.

GPT-4's Response

2

In Passage 2, the "first hearing" refers to the beginning of the legal proceedings in the case held at the District Court at The Hague. This is the closest meaning to "opening legal proceeding," as both phrases refer to the initial stage of a legal case. ✓

Question 12

Passage 1: It created a hole, allowed about of water into the ship—which had to be offset with counter-flooding, meaning that another entered—killed five men, and wounded twenty. Although "North Carolina" could steam at soon after the explosion, it was later forced to slow to to ensure that temporary shoring did not fail. Structural damage beneath the first turret rendered it unable to fire unless in absolute need, and the main search radar failed. As this was the first torpedo to strike a modern American battleship, there was a large amount of interest from various officers and bureaus within the navy in learning more about it. The conclusions were seen as a vindication by some who believed that too much had been sacrificed in the design of the "North Carolina"s—the torpedo defense system had come close to breaking near one of the most important areas of the ship (a magazine), after all—and the General Board called for the fifth and sixth s, and , to have a torpedo bulge added outside their magazines. However, the new Bureau of Ships opposed this on the basis that the system performed as it was supposed to; in any case, no modifications were made. Repaired and refitted at the facilities in Pearl Harbor, "North Carolina" operated as a carrier escort for "Enterprise" and "Saratoga" for the remainder of 1942 and the majority of 1943 while they provided cover for supply and troop movements in the Solomons. In between, it received advanced fire control and radar gear in March, April and September 1943 at Pearl Harbor. In November, "North Carolina" escorted "Enterprise" while the carrier launched strikes upon Makin, Tarawa and Abemama. On 1–8 December it bombarded Nauru before returning to **carrier screening**; it accompanied while that carrier launched attacks on Kavieng and New Ireland. Joining Task Force 58 in January 1944, "North Carolina" escorted aircraft carriers as the flagship of Vice Admiral Willis A. Lee, Commander, Battleships, Pacific Fleet (ComBatPac) for much of the year, providing support for airborne strikes on Kwajalein, Namur, Truk (twice), Saipan, Tinian, Guam, Palau, Woleai, and Hollandia in January–April.

Passage 2: The "one gene one enzyme" model of George Beadle and Edward Tatum integrated biochemistry with molecular genetics. In the new model, it was also recognized that genes and their protein products perform regulatory functions in the cell, controlling enzyme activity in metabolic pathways. This new understanding of metabolic processes paved the way for advances in both biochemistry and genetics that would lead to testing for genetic disease. Biochemists of this era were able to identify and characterize mutations indirectly through protein sequencing, but lacked the molecular techniques to observe mutations directly. By the early 1960s, this new partnership of biochemistry and Mendelian genetics had achieved a success, the detection of phenylketonuria, an autosomal recessive genetic disorder also. Phenylketonuria is a common metabolic disease in which the failure of an essential liver enzyme, needed to break down a byproduct of digestion of certain proteins, leads to mental retardation and other neurological problems. Success with phenylketonuria was brought about through mass post-natal screening of newborn infants, together with dietary modification, a form of substrate reduction therapy. Although there is no cure for phenylketonuria, early detection made it possible for patients to avoid its harmful effects and live essentially normal lives. By the late 1960s, post-natal screening for phenylketonuria was mandated in the United States and most industrial nations. Although **carrier screening** was not yet available, phenylketonuria was a spectacular success for public health, the first successful application of mass screening in medical genetics. In 1969, John S. O'Brien demonstrated that Tay–Sachs disease was caused by a defect in a crucial enzyme.

Question: Does "host medical test" have a similar meaning to "carrier screening" in Passage 1 or Passage 2? Please answer 1 or 2 and then explain.

GPT-4's Response

2. The term "carrier screening" is found in Passage 2, related to genetic testing and medical genetics. "Host medical test" is not mentioned in either passage, but it would be more closely related to the concept of genetic testing and screening for diseases as discussed in Passage 2. ✓

Question 14

Passage 1: The sharpshooters would then fall back to the second line, which would consist of militiamen. The militia would fire two volleys, then feign a rout and pretend to flee. If the British believed they had caused a panic in the militiamen, they would charge forward. But instead of catching up to the fleeing militia, they would run into the **third line**—Continental Army soldiers commanded by John Eager Howard. As a reserve, Morgan had a small Continental cavalry force commanded by William Washington. Morgan's deception proved decisive. At the Battle of Cowpens on January 17, 1781, the British under Tarleton launched a frontal assault. The militia feigned retreat, and Tarleton's troops charged forward. As planned, they were met by Howard's troops, then surprised by Washington's cavalry charging into their flanks. The British lost over 100 killed, over 200 wounded, and over 500 captured. Morgan's command sustained only 12 killed and 60 wounded.

Passage 2: His skills had become known and appreciated. Bruckmann Manufacturing. Erich Bruckmann began Bruckmann Manufacturing on Maple Avenue in Burlington, Ontario. He later set up shop on Wallace Road in the Speers Road and **third line** area of Oakville, Ontario, still as Bruckmann Mfg. "Red Jacket" (1964). Canadian yachtsman Perry Connolly asked George Cuthbertson of Cuthbertson & Cassian to design a custom racing sloop for him. The design directive called for flat-out speed. Connolly said he wanted "the meanest, hungriest 40-footer afloat". As a result of a connection through his earlier relationship with Metro Marine, Bruckmann was asked to build this new boat, named "Red Jacket", from the design by Cuthbertson. Starting in 1963 and through 1964 "Red Jacket", was built by Erich Bruckmann at Bruckmann Manufacturing in fiberglass with a balsa core, the resulting structure was strong, stiff and significantly lighter than the wood or solid fiberglass yachts then sailing. "Red Jacket" is considered to be the first sailboat engineered with a cored hull (other earlier boats had balsa-cored decks and powerboat builders were then using it in transoms and superstructures).

Question: Does "3rd front" have a similar meaning to "third line" in Passage 1 or Passage 2?
Please answer 1 or 2 and then explain.

GPT-4's Response

1

In Passage 1, the "third line" refers to a line of Continental Army soldiers who were positioned strategically to confront the British troops after they had charged towards the fleeing militia. This military context is more similar to the meaning of "3rd front." In Passage 2, "Third Line" simply refers to a location where Bruckmann Manufacturing was set up, which does not have a similar meaning to "3rd front." ✓

Question 15

Passage 1: Some models squeezed a monitor head into the capstan area, and others combined **separate record** and playback gaps into a single headshell. The Dolby B noise reduction system was key to realizing low noise performance on slow, narrow, cassette tapes. It works by boosting the high frequencies on recording, especially low-level high-frequency sounds, with corresponding high frequency reduction on playback. This lowers the high frequency noise (hiss) by approximately 9 dB. Enhanced versions included Dolby C (in 1980) and Dolby S types. Of the three, however, only Dolby B became common on automobile decks. Bang & Olufsen developed the HX Pro headroom extension system in conjunction with Dolby Laboratories in 1982. This was used in many higher-end decks. HX Pro reduces the high-frequency bias during recording when the signal being recorded has a high level of high frequency content. Such a signal is self-biasing. Reducing the level of the bias signal permits the desired signal to be recorded at a higher level without saturating the tape, thus increasing "headroom" or maximum recording level.

Passage 2: The naval officer for a customs district operated as an auditor, and kept a **separate record** of the various transactions in the district. The most notable name associated with this office in Salem was one who never actually took up the post, Associate Supreme Court Justice Joseph Story. In 1803, Story was nominated by President Jefferson and confirmed by the Senate for the post, but he declined the appointment upon being convinced that the role would conflict with his then growing private law practice in Salem. Surveyor of Salem (1789–1875). The writer Nathaniel Hawthorne is undoubtedly the most famous name associated with Salem customs, and he served as surveyor from 1846 to 1849. However he was just one of a remarkable seven consecutive surveyors who were removed from the post by the President between 1841 and 1861. Every incoming President, it seems, felt the need to put his own man in the post. One of these removals led to the only time the nomination of a customs officer for Salem was rejected by the Senate. Edward Palfray had been surveyor in 1841 before being replaced by Stephen Daniels. When Daniels himself was removed two years later Palfray was appointed his successor by President Tyler as a recess appointment. However, when Palfray's name came before the Senate for confirmation, his appointment was rejected by a Senate vote, 12 - 23.

Question: Does "distinct audio capture" have a similar meaning to "separate record" in Passage 1 or Passage 2? Please answer 1 or 2 and then explain.

GPT-4's Response

1. The term "distinct audio capture" has a similar meaning to "separate record" in Passage 1. In Passage 1, separate record refers to the process of recording audio separately from playback, which is related to audio capture. In Passage 2, the term "separate record" refers to keeping a separate record of transactions in a customs district, which is unrelated to audio capture. ✓

Question 16

Passage 1: A few months later, he was also appointed Apostolic Administrator of the diocese of Krishnagar. His secretary was the young Giuseppe Moja. In June 1940, Msgr. Scuderi was taken prisoner with other Italian Salesians by the British, since Italy had entered World War II on the side of Germany. He spent time in several camps all over India: Fort William (Calcutta), Ahmednagar, Deolali, Dehradun, and finally Purandar. The Salesians in these camps even underwent a **whole course** of theology and received ordination. In Purandar, Scuderi even began schools for children of the prisoners, of the servants, and of the sweepers. Pioneer in Goa. When the British made it clear he would have to go, he opted for the Portuguese territory of Goa, so as not to leave India. There a new saga of six years, with a group of volunteers who followed him, began. He started with the Oratory and a Portuguese primary school, followed by a technical school and English High School; two other festive and daily oratories in town; a technical school in Valpoi; he even bought a plot in Panjim, the capital, and built a chapel that soon became a centre of devotion for hundreds. Scuderi is thus the founder of the Salesian work in Goa, which now includes foundations in Panjim, Odxel, Parra, Paliem, Tuem, Fatorda, Loutolim, Benaullim, besides other foundations in southern Maharashtra and coastal Karnataka.

Passage 2: It drains an approximately watershed. It is a salmon-bearing stream that also provides habitat to cutthroat trout, as well as watering a series of riparian areas, mostly in Lake Forest Park. McAleer Creek has the name of Hugh McAleer, a pioneer landowner. Course. McAleer Creek rises on the southeast side of Lake Ballinger and for its **whole course** runs generally southeast. It first flows through Nile Golf Course in Mountlake Terrace. It enters a culvert under Interstate 5 and emerges into the Lake Forest Park flood control system. It then flows through residential streets and a wooded ravine until it passes under Perkins Way, where it joins Whisper Creek as the latter flows southward. The stream emerges into the woods once again, following Perkins and later 180th Street Northeast, entering another culvert to flow under 178th Street Northeast. It opens once more as it flows into Blue Heron Park, then moving under Bothell Way into a series of weirs and fish ladders. The stream then empties into Lake Washington near the intersection of 168th Street Northeast and Shore Drive.

Question: Does "total run" have a similar meaning to "whole course" in Passage 1 or Passage 2? Please answer 1 or 2 and then explain.

GPT-4's Response

2, The phrase "whole course" in Passage 2 refers to the entire path that McAleer Creek takes from its source to its endpoint, which is similar to the meaning of "total run" as it describes the complete journey of a water body. Passage 1 does not mention the terms "total run" nor does it discuss a water body or its course. ✓

Question 17

Passage 1: A "bulk" retrieval costs 2.5 cents per thousand requests and 0.25 cents per gigabyte, and takes seven to twelve hours. AWS also introduced "provisioned capacity" for expedited retrievals, each unit of which costs \$100 per month and guarantees at least three expedited retrievals every five minutes, and up to 150 MB/s of retrieval bandwidth. Without provisioned capacity, expedited retrievals are done on a capacity available basis. Data deleted from Glacier less than 90 days after being stored incurs a charge equal to the cost of storage for the remainder of the 90 days. (In effect, the user pays for 90 days minimum.) This move was designed to discourage the service's use in cases where Amazon's other storage offerings (e.g. S3) are more appropriate for real-time access. After 90 days, deletion from Glacier is free. Retrieving data from Glacier is a two-step process. The first step is to retrieve the data into a staging area, where it stays for 24 hours. The **second step** is to download the data from the staging area, which may incur bandwidth charges.

Passage 2: The men's 110 metre hurdles at the 2000 Summer Olympics as part of the athletics programme were held at Stadium Australia on Sunday 24 September and Monday 25 September 2000. Forty-four athletes from 31 nations competed. The maximum number of athletes per nation had been set at 3 since the 1930 Olympic Congress. The event was won by Anier Garcia of Cuba, the nation's first championship in the event and first medal in the event since 1980. Mark Crear's bronze made him the 10th man to win a second medal in the event. Summary. After a false start eliminated nobody, on the second try the field started even. Anier Garcia accelerated his first few steps better and gained a few centimeter lead over the first barrier, which he rattled. Typically fast starting Terrence Trammell was just slightly awkward on his **second step** losing a slight amount of ground.

Question: Does "next thing to do" have a similar meaning to "second step" in Passage 1 or Passage 2? Please answer 1 or 2 and then explain.

GPT-4's Response

1. The "next thing to do" has a similar meaning to "second step" in Passage 1. In Passage 1, the second step is part of a process (retrieving data from Glacier) that needs to be followed in sequence, whereas in Passage 2, the mention of "second step" is related to an athlete's action (Terrence Trammell's slight awkwardness) during a race and does not represent a sequential process. ✓

Question 18

Passage 1: The second clause issues hope for stability of beauty and immortality. This idea is rather modern and equates human value with economics. The sun in sonnet 7 is an imperialistic empire that controls the economy of the world. The economic status of its governed is completely dependent upon the sun's immortality. If the sun did not rise, there would be no harvest and no profit. The implied man in sonnet 7 also has an **economic function** in his humanity. He is a cog in the machine of imperialism. A constituent of his governing body politic as well as to the greatest ruler – the sun. His complete reliance on the sun for economic gain is slave-like. Man waits for the sun to rise in the morning, labors under its heat, then feebly ends his days work, ever closer to his mortality. This sonnet is epideictic rhetoric of both blame and praise: blaming the sun for reminding man of his immortality, and praising the sun for the vast pleasures it brings man in his short lifetime.

Passage 2: ... They are a means of breaking down the superior position of the non-Malays in the field of education. The Malays are not proud of this treatment." Shortly after becoming Prime Minister, Mahathir denied he had altered any of his views since he wrote the book. Mahathir and Musa Hitam later rejoined UMNO and the government under Tun Abdul Razak, the second Prime Minister, whose New Economic Policy (NEP), was based on some of the reforms Mahathir's book had advocated. The NEP's stated goal was elimination of "the identification of race with **economic function**". To achieve this, it targeted a 30% share of the economy for the "Bumiputra" — "sons of the soil," a term referring to Malays and other indigenous peoples — by 1990. This became known as the "30 per cent solution" setting the "Bumiputra quota" for many items, including new public share listings and new private housing schemes. Certain commentators alleged that this fostered "a close to 'zero-sum' attitude chiefly between the Malays and Chinese". The NEP's stated aim, however, was not to directly redistribute wealth but to enlarge the economic pie while providing a larger share of the gains for Malays, thus increasing participation in the economy for all. The main rationale for the NEP as set out in the Second Malaysia Plan was to address the "economic imbalance" between the Chinese and Malays.

Question: Does "profit-making purpose" have a similar meaning to "economic function" in Passage 1 or Passage 2? Please answer 1 or 2 and then explain.

GPT-4's Response

2

In Passage 1, "economic function" refers to the role that the sun and the implied man play in the economic system of imperialism, essentially representing the idea that humans are valued based on their ability to contribute to the economy. In this context, the focus is on the relationship between man, the sun, and the economic system as a whole.

In Passage 2, "economic function" relates to the identification of race with specific roles in the economy and the attempt to eliminate this association through the New Economic Policy (NEP). Here, the term is connected to the involvement of different racial groups in various aspects of the economy.

"Profit-making purpose" is more closely aligned with the "economic function" in Passage 2 because it implies a goal that could be applied to different roles or sectors within the economy. In this passage, the focus is on increasing participation in the economy for all racial groups while addressing imbalances, which could directly or indirectly relate to profit-making objectives. ✓