

Model Test Paper 50
General Study Paper II

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TEST BOOKLET
GENERAL STUDIES
Paper-II

B

Time Allowed : Two Hours

Maximum Marks : 200

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION YOU SHOULD CHECK THAT THE TEST BOOKLET *DOES NOT* HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC, IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. **Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series A, B, C or D carefully and without any omission or discrepancy at the appropriate place in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.**
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside . *DO NOT* write *anything else* on the Test Booklet.
4. This Test Booklet contains **80** items (questions). Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose *ONLY ONE* response for each item.
5. You have to mark all your responses *ONLY* on the separate Answer Sheet provided.
6. **All** items carry equal marks.
7. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the invigilator only the *Answer Sheet*. You are permitted to take away with you the Test Booklet.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. **Penalty for wrong Answers :**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.
(i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third** of the marks assigned to that question will be deducted as penalty.
(ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
(iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

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<p>Many people with high IQ scores fail to become successful due to a lack of motivation, personality, laziness, or short attention span. In contrast, some people with low iq results succeed due to personal dedication, vision, systematic effort, and motivation. A low IQ score can be changed through conscious choice and effort. As an analogy, consider a gifted athlete. Some athletes have special talents for a particular sport. However, they fail to perform as well as those even if they are pretty much good at it, for doing that sport depends on a systematic effort. Readers familiar with sports can name several specific examples of this phenomenon.</p> <p>1. Some very intelligent people can have failures because</p> <p>(a) they have short life span (b) they focus on details too much (c) of various factors (d) they are expected to do so by the society</p> <p>2. People with low IQ scores may sometimes be very successful</p> <p>(a) but they lack motivation and personality (b) as they are praised by their teachers (c) since they devote themselves to their tasks and perform a great effort (d) although they have great abilities and intelligence</p> <p>3. We can infer from the passage that</p> <p>(a) success is not always an indicator of intelligence (b) Western cultures focus on ability as the major determinant of success (c) an athlete can be successful in every sports if he has high IQ scores (d) infants adopted by privileged families tend to have higher IQs</p> <p>All viruses are made up of two kinds of substance. First, all viruses contain proteins. Proteins are chemical substances that occur in all living creatures. A particle, or molecule, of a protein consists of a long chain of substances called amino</p>	<p>acids. There are about 20 different kinds of amino acid in proteins. These can be arranged in any order on the protein chain. Different kinds of plant or animal contain proteins with different arrangements of amino acids. The protein generally forms the outer coat of a virus. This outer layer of protein encloses the second kind of substance found in all viruses - nucleic acid.</p> <p>4. It is clear from the passage that</p> <p>(a) proteins are greatly damaged by viruses (b) the amount of proteins differs in each animal or plant (c) few proteins are without amino acids (d) it is impossible to find a living thing with no proteins</p> <p>5. The arrangement of amino acids</p> <p>(a) is very simple in the proteins of the viruses (b) is determined by the kinds of proteins (c) can be harmed if too many viruses confront the proteins (d) varies among each living thing</p> <p>6. The second substance of the viruses</p> <p>(a) consists of only amino acids (b) is usually the part covered by proteins (c) protects it from outer effects (d) must contain at least 20 amino acids</p> <p>He was that rare figure: a natural-born leader, tailored for greatness. When he was but a child his mother had whispered to him, "My son, you are a child of the dawn. You will be a man of glory, a great leader of your people." Sukarno never forgot those words. Liberating his land from 350 years of colonial rule, he molded many disparate peoples into a nation that became the fifth most populous in the world, one of the richest of all in natural resources. He gave his people a language of their own, raised their literacy rate from six to above 55 percent, gave them an intense from pride in being Indonesians. He had monumental talents: an oratorical gift that could sway and charm, an abundance of that indefinable mystique called "charisma." Responding, his people gave him loyalty beyond love, reverence approaching god-worship.</p>
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<p>7. Sukarno is a man who</p> <p>(a) is endowed with leadership</p> <p>(b) used to design clothes when he was a child</p> <p>(c) had a natural-born great mother</p> <p>(d) caused people to be rebellious against the government</p> <p>8. It's stated in the passage that Sukarno</p> <p>(a) is the only child of his parents</p> <p>(b) couldn't liberate his land from colonial rule</p> <p>(c) built a nation out of separate communities</p> <p>(d) opposed giving his public their own language</p> <p>9. After having freed his land from colonial rule, Sukarno</p> <p>(a) suddenly built a monument dedicated to himself</p> <p>(b) caused his people to be ashamed of themselves</p> <p>(c) increased the population of Indonesia</p> <p>(d) increased the level of literacy of his people</p> <p>All of us rely on what we see. Can we really trust the evidence of our eyes? Take competitive sports. Fans who see the same game will not agree with each other and will disagree with the referee. It is the same story in the courtroom. Trial procedure depends on witnesses giving sworn testimony. But just how reliable is the testimony of a person who reports what he has seen? In a recent study, ten thousand witnesses were asked to describe the man they saw commit a crime. The study reveals that, on the average, the witnesses overestimated the man's height by five inches, his age by eight years, and gave the wrong hair colour in 83 percent of the cases. What can we do to keep error to minimum? First of all, don't see something because you want to see it. Secondly, try to stay relaxed. If you are tense, you are liable to see red when the colour is blue.</p> <p>10. One can infer from the passage that</p> <p>(a) eyewitness testimony is the most trustworthy element in a criminal case</p> <p>(b) very few people rely on what they see</p>	<p>(c) we can't completely trust the evidence of our eyes</p> <p>(d) the sworn testimony given by the witnesses is always reliable</p> <p>11. According to the passage, statistical studies show that</p> <p>(a) fans at sports events make notes of what they see</p> <p>(b) witnesses feel comfortable when they are describing a crime to a jury</p> <p>(c) very few people are willing to report what they see</p> <p>(d) eyewitnesses can make significant identification errors</p> <p>12. We understand from the passage that eyewitnesses</p> <p>(a) usually try to keep visual error to a minimum</p> <p>(b) are sometimes forced to lie about what they see</p> <p>(c) shouldn't let their emotions interfere with their vision</p> <p>(d) have no respect for the truth</p> <p>Blue jeans are casual pants noted for their strength and comfort. Blue jeans in the form we know them today didn't come about until the middle of the nineteenth century. Levi Strauss, an enterprising immigrant who happened to have a few bolts of blue denim cloth on hand, recognized a need for strong work pants in the mining communities of California. He first designed and marketed "Levi's" in 1850 and there have been only minor alterations to the original design since then. Blue jeans started becoming popular among young people in the 1950s. In the year 1957, 150 million pairs were sold worldwide. This growing trend continued until 1981. Although blue jeans have remained basically the same since they were first designed, they have always been versatile enough to meet market demands.</p> <p>13. It is clear from the passage that the first blue jeans were</p> <p>(a) worn mainly because of their durability</p> <p>(b) not as strong as those of today</p> <p>(c) different in colour from modern ones</p>
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<p>(d) designed in the 1950s</p> <p>14. We can understand from the passage that the first jeans designed by Levi Strauss</p> <p>(a) were mostly preferred by the young</p> <p>(b) were not completely different from the Levi's jeans worn today</p> <p>(c) sold 150 million pairs throughout the world</p> <p>(d) sold a lot though they were not cheap</p> <p>15. We can infer from the passage that no matter how little the jeans have changed since they were first produced, they</p> <p>(a) have always been in demand</p> <p>(b) are still used in most of the mines in America</p> <p>(c) have always been more popular than other kinds of trousers</p> <p>(d) will undergo many alterations to the original design in the future</p> <p>The bald eagle, America's national bird, is the only eagle unique to North America. About half of the world's 70,000 bald eagles live in Alaska, making the northwest coast of North America by far their greatest stronghold for bald eagles. They flourish here in part because of the salmon. Dead or dying fish are an important food source for all bald eagles. Eagles are a member of the Accipitridae family, which also includes hawks, kites, and old-world vultures. Scientists loosely divide eagles into four groups based on their physical characteristics and behavior. The bald eagle is a sea or fish eagle. Bald eagles were officially declared an endangered species in 1967 in all areas of the United States. Though still protected in the U.S., the bald eagle is no longer considered an endangered species today.</p> <p>16. According to the passage it is true that the bald eagle</p> <p>(a) is still under the danger of becoming extinct</p> <p>(b) has been the national bird of America since 1967</p> <p>(c) lives together with the birds of Accipitridae family such as hawks and kites</p> <p>(d) cannot be seen in any other place in the world except North America</p>	<p>17. It is clearly understood from the passage that there are</p> <p>(a) many other animals in America that are on the point of becoming extinct</p> <p>(b) unknown bald eagle populations in the U.S. according to the scientists</p> <p>(c) a lot more than 70,000 bald eagles all around the world</p> <p>(d) other places in America that bald eagles can survive in addition to Alaska</p> <p>18. We can infer from the passage that since the declaration of bald eagles as an endangered species in 1967</p> <p>(a) the bald eagle has spread all around America</p> <p>(b) the number of the birds has increased</p> <p>(c) many measures, one of which is to provide them with enough food, have been taken</p> <p>(d) many other species have been neglected</p> <p>I have previously defined a sanctuary as a place where man is passive and the rest of Nature active. But this general definition is too absolute for any special case. The mere fact that man has to protect a sanctuary does away with his purely passive attitude. Then, he can be beneficially active by destroying pests and parasites, like botflies or mosquitoes, and by finding antidotes for diseases like the epidemic which periodically kills off the rabbits and thus starves many of the carnivora to death. But, except in cases where experiment has proved his intervention to be beneficial, the less he upsets the balance of Nature the better, even when he tries to be an earthly Providence.</p> <p>19. The author implies that his first definition of a sanctuary is</p> <p>(a) totally wrong</p> <p>(b) somewhat idealistic</p> <p>(c) unhelpful</p> <p>(d) indefensible</p>
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<p>20. The author's argument that destroying botflies and mosquitoes would be a beneficial action is most weakened by all of the following except</p> <p>(a) parasites have an important role to play in the regulation of populations</p> <p>(b) the elimination of any species can have unpredictable effects on the balance of nature</p> <p>(c) the pests themselves are part of the food chain</p> <p>(d) elimination of these insects would require the use of insecticides that kill a wide range of insects</p> <p>Paragraph one That Priestley's contributions to the knowledge of chemical fact were of the greatest importance is unquestionable; but it must be admitted that he had no comprehension of the deeper significance of his work; and, so far from contributing anything to the theory of the facts which he discovered, or assisting in their rational explanation, his influence to the end of his life was warmly exerted in favor of error. From first to last, he was a stiff adherent of the phlogiston doctrine which was prevalent when his studies commenced; and, by a curious irony of fate, the man who by the discovery of what he called "dephlogisticated air" furnished the essential datum for the true theory of combustion, of respiration, and of the composition of water, to the end of his days fought against the inevitable corollaries from his own labors.</p> <p>Paragraph two It is a trying ordeal for any man to be compared with Black and Cavendish, and Priestley cannot be said to stand on their level. Nevertheless his achievements are truly wonderful if we consider the disadvantages under which he labored. Without the careful scientific training of Black, without the leisure and appliances secured by the wealth of Cavendish, he scaled the walls of science; and trusting to mother wit to supply the place of training, and to ingenuity to create apparatus out of washing tubs, he discovered more new gases (including oxygen, which he termed "dephlogisticated air") than all his predecessors put together had done.</p> <p>21. Which pairing best reflects the main emphasis of the two passages? The first focuses mainly on Priestley's</p> <p>(a) discoveries of chemical fact; the second on his ingenuity</p> <p>(b) discovery of "dephlogisticated air"; the second on his discoveries of gases</p>	<p>(c) lack of theoretical understanding; the second on his lack of training</p> <p>(d) importance to future science; the second on his status in relation to his contemporaries</p> <p>22. It can be inferred that "dephlogisticated air" is</p> <p>I a misnomer, but relating to something important</p> <p>II a gaseous substance discovered by Priestley</p> <p>III something not fully understood by Priestley</p> <p>(a) I only</p> <p>(b) II only</p> <p>(c) I and III</p> <p>(d) II and III</p> <p>23. The metaphor "scaled the walls of science" conveys the idea that Priestley</p> <p>(a) climbed to the pinnacle of science</p> <p>(b) fought his way to the top</p> <p>(c) escaped the confines of traditional ideas</p> <p>(d) achieved success in a difficult endeavor</p> <p>24. The attitude of both the passages to Priestley's scientific work could be described as</p> <p>(a) firm disapproval</p> <p>(b) wholehearted praise</p> <p>(c) qualified approval</p> <p>(d) determined neutrality</p> <p>Much of what goes by the name of pleasure is simply an effort to destroy consciousness. If one started by asking, what is man? what are his needs? how can he best express himself? one would discover that merely having the power to avoid work and live one's life from birth to death in electric light and to the tune of tinned music is not a reason for doing so. Man needs warmth, society, leisure, comfort and security: he also needs solitude, creative work and the sense of wonder. If he recognized this he could use the products of science and industrialism eclectically, applying always the same test: does this make me</p>
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<p>more human or less human? He would then learn that the highest happiness does not lie in relaxing, resting, playing poker, drinking and making love simultaneously.</p> <p>25. The author implies that the answers to the questions in sentence two would reveal that human beings</p> <p>(a) are less human when they seek pleasure</p> <p>(b) need to evaluate their purpose in life</p> <p>(c) are being alienated from their true nature by technology</p> <p>(d) are always seeking the meaning of life</p> <p>26. The author would apparently agree that playing poker is</p> <p>(a) often an effort to avoid thinking</p> <p>(b) something that gives true pleasure</p> <p>(c) an example of man's need for society</p> <p>(d) something that man must learn to avoid</p> <p>Examine the recently laid egg of some common animal, such as a salamander or newt. It is a minute spheroid – an apparently structureless sac, enclosing a fluid, holding granules in suspension. But let a moderate supply of warmth reach its watery cradle, and the plastic matter undergoes changes so rapid, yet so steady and purposeful in their succession, that one can only compare them to those operated by a skilled modeler upon a formless lump of clay. As with an invisible trowel, the mass is divided and subdivided into smaller and smaller portions. And, then, it is as if a delicate finger traced out the line to be occupied by the spinal column, and molded the contour of the body; pinching up the head at one end, the tail at the other, and fashioning flank and limb into due proportions, in so artistic a way, that, after watching the process hour by hour, one is almost involuntarily possessed by the notion, that some more subtle aid to vision than a microscope, would show the hidden artist, with his plan before him, striving with skilful manipulation to perfect his work.</p> <p>27. The author makes his main point with the aid of</p> <p>(a) logical paradox</p> <p>(b) complex rationalization</p>	<p>(c) observations on the connection between art and science</p> <p>(d) scientific deductions</p> <p>28. In the context of the final sentence the word "subtle" most nearly means</p> <p>(a) not obvious</p> <p>(b) indirect</p> <p>(c) discriminating</p> <p>(d) surreptitious</p> <p>Passage one</p> <p>There are not many places that I find it more agreeable to revisit when in an idle mood, than some places to which I have never been. For, my acquaintance with those spots is of such long standing, and has ripened into an intimacy of so affectionate a nature, that I take a particular interest in assuring myself that they are unchanged. I never was in Robinson Crusoe's Island, yet I frequently return there. I was never in the robbers' cave, where Gil Blas lived, but I often go back there and find the trap-door just as heavy to raise as it used to be. I was never in Don Quixote's study, where he read his books of chivalry until he rose and hacked at imaginary giants, yet you couldn't move a book in it without my knowledge. So with Damascus, and Lilliput, and the Nile, and Abyssinia, and the North Pole, and many hundreds of places — I was never at them, yet it is an affair of my life to keep them intact, and I am always going back to them.</p> <p>Passage two</p> <p>The books one reads in childhood create in one's mind a sort of false map of the world, a series of fabulous countries into which one can retreat at odd moments throughout the rest of life, and which in some cases can even survive a visit to the real countries which they are supposed to represent. The pampas, the Amazon, the coral islands of the Pacific, Russia, land of birch-tree and samovar, Transylvania with its boyars and vampires, the China of Guy Boothby, the Paris of du Maurier—one could continue the list for a long time. But one other imaginary country that I acquired early in life was called America. If I pause on the word "America", and deliberately put aside the existing reality, I can call up my childhood vision of it.</p>
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<p>29. The first sentence of passage one contains an element of</p> <p>(a) paradox</p> <p>(b) legend</p> <p>(c) melancholy</p> <p>(d) humor</p> <p>30. By calling America an “imaginary country” the author of passage two implies that</p> <p>(a) America has been the subject of numerous works for children</p> <p>(b) he has never seen America</p> <p>(c) his current vision of that country is not related to reality</p> <p>(d) America has stimulated his imagination</p> <p>31. Both passages make the point that</p> <p>(a) imaginary travel is better than real journeys</p> <p>(b) children’s books are largely fiction</p> <p>(c) the effects of childhood impressions are inescapable</p> <p>(d) books read early in life can be revisited in the imagination many years later</p> <p>32. Both passages list a series of places, but differ in that the author of passage one</p> <p>(a) has been more influenced by his list of locations</p> <p>(b) never expects to visit any of them in real life, whereas the writer of passage two thinks it at least possible that he might</p> <p>(c) is less specific in compiling his list</p> <p>(d) wishes to preserve his locations in his mind forever, whereas the author of passage two wishes to modify all his visions in the light of reality.</p> <p>The minimization of bleach loss is a high priority for chemical plants that produce sodium hypochlorite. The largest source of bleach loss during production is during the process when the chlorate ion is formed, and the most accurate</p>	<p>measurement method for determining the chlorate ion concentration in bleach is ion chromatography, a highly sensitive and complicated titration method.</p> <p>Because this measurement requires specialized equipment and training, most bleach producers are unable to measure the chlorate ion concentration, and thus must employ outside contractors to perform the analysis work. The titration method is based on the method proposed by several scientists in 1984, in which the bleach sample is prepared by removing the available chlorine by reaction with hydrogen peroxide. The measurement is based on the titration of iodine by sodium thiosulfate. A number of oxidizing species in the sample are titrated and measured, and the chlorate ion is titrated along with the oxidizing species. The chlorate ion concentration is calculated by taking the difference of the titrations.</p> <p>33. According to the passage, which of the following, if true, would most likely indicate that chromatography is not a good method for detecting bleach loss?</p> <p>(a) Chromatography is only able to be used in biological compounds with high levels of sodium</p> <p>(b) The removal of chlorine from a solution by reacting it with hydrogen peroxide does not interact with iodine</p> <p>(c) The oxidizing species in a sample need to be titrated and measured at least three times.</p> <p>(d) The levels of chlorate ion in different titrations do not vary significantly.</p> <p>34. It can be inferred that the author of the passage does NOT believe which of the following?</p> <p>(a) Ion chromatography is a titration method with little scientific merit</p> <p>(b) Bleach loss should be avoided during all phases of a chemical process</p> <p>(c) Using sodium thiosulfate is necessary when titrating iodine</p> <p>(d) Measuring the oxidizing species of a sample is important.</p>
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<p>35. An automobile financier claims to be lending money at simple interest, but he includes the interest every six months for calculating the principal. If he is charging an interest of 10%, the effective rate of interest becomes</p> <p>(a) 10%</p> <p>(b) 10.25%</p> <p>(c) 10.5%</p> <p>(d) 20.5%</p> <p>36. A can do a work in 15 days and B in 20 days. If they work on it together for 4 days, then the fraction of the work that is left is</p> <p>(a) 1/4</p> <p>(b) 1/10</p> <p>(c) 7/15</p> <p>(d) 8/15</p> <p>37. DFE, JIH, MLN, ?, VUT</p> <p>(a) OQP</p> <p>(b) PSR</p> <p>(c) PRQ</p> <p>(d) RSP</p> <p>38. Rearrange the letters in the word "below" in order to make a new word. Which sentence below best describes the new word?</p> <p>(a) Clothing</p> <p>(b) Type of communication</p> <p>(c) A colour</p> <p>(d) Part of the human body</p> <p>39. John, Kate and Lenny just came back from trips to the following countries: Mauritania, Nepal, Oman, Peru and Qatar. Each country was visited by at least one of the travellers. Each traveller visited either two or three different countries. Only one traveller visited Qatar. Every traveller who visited Mauritania went to Nepal as well.</p>	<p>A traveller who visited Qatar did not visit Peru. John visited all of the countries Kate did. Which of the following could NOT be a list of the countries John visited?</p> <p>(a) Peru, Mauritania, Nepal</p> <p>(b) Oman, Nepal, Qatar</p> <p>(c) Qatar, Mauritania, Nepal</p> <p>(d) Mauritania, Nepal, Oman</p> <p>40. Stockbroker: Economists advise us to buy a certain number of foreign government-issue bonds along with our stocks because they can help diversify the risk in our investment portfolios. While it is wise to avoid unnecessary financial risk, the economists' advice is premature. For all we know, those types of bonds can lose a considerable amount of their value over time and might even become worthless. Which one of the following best expresses the main conclusion of the above argument?</p> <p>(a) To the extent that it is possible, we should avoid unnecessary financial risk when investing.</p> <p>(b) Including a certain number of foreign government-issue bonds in our investment portfolio may result in a net decrease in the value of the portfolio</p> <p>(c) Including the right types of bonds in an investment portfolio can constitute a reliable source of investment without the unnecessary financial risk</p> <p>(d) We should be cautious about the practice of including a certain number of foreign government-issue bonds in our investment portfolio</p> <p>41. Letter to the editor: Like many other clients of Metropolitan Bank, I was dismayed to hear that its manager, Peter Grey, was found guilty of embezzlement. However, I do not agree with the calls for Grey's resignation from his bank post. Peter Grey has chaired our block association for many years, and I have always known him to be competent. Our local economy cannot afford to lose any fair and competent bankers. Which one of the following best expresses the main conclusion of the letter writer's argument?</p> <p>(a) A charge of embezzlement is not sufficient grounds for damaging anyone's professional career.</p>
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<p>(b) Competence is the most important quality in a bank manager</p> <p>(c) People who are personally acquainted with a professional outside the purview of work are the most objective judges of that professional's competence</p> <p>(d) Peter Grey is a competent bank manager</p> <p>42. Parents often believe they should supervise their pre-school children more when outside their home than when inside. This, however, is a mistake. While many parents would not think of letting their young children wander around alone outside, they neglect to supervise their pre-schoolers adequately in the home. Yet most accidents involving young children occur in the home, and a lack of parental supervision plays a role in 80 percent of these accidents .</p> <p>In fact, fatal accidents account for almost one-third of all deaths to children between the ages of 1 and 14, and most fatal accidents to preschool children happen at home. The most frequently cited reasons for visits with young children to hospital emergency rooms are burns caused by too-hot water in the bath, followed by serious cuts, bruises, and head injuries sustained during play, and finally, drug poisonings.</p> <p>Which one of the following best expresses the main conclusion of the argument above?</p> <p>(a) Parents do not need to supervise their children outside the home more than they do inside</p> <p>(b) Inadequate parental supervision does not play a role in most of the accidents that occur outside</p> <p>(c) Parents should supervise their children as closely in the home as outside the home</p> <p>(d) Inadequate parental supervision is the primary factor in most accidents involving young children in the home</p> <p>43. Scientists have known for some time that insects breathe using a system of internal respiratory tubes called tracheae. Breathing, or oxygen exchange, was thought to occur by a simple mechanism called diffusion. One researcher has now suggested that in some large insect species, respiration can also occur by a mechanism like the lung ventilation of mammals, by pumping the respiratory tubes much as humans expand and contract their lungs.</p> <p>Which one of the following could be reliably concluded from the above information?</p> <p>(a) Insects' tracheae are composed not of rigid bone-like material but of a flexible membrane</p>	<p>(b) The larger the insect, the more oxygen it takes in</p> <p>(c) Respiration in small insects too must occur by means of lung ventilation</p> <p>(d) The amount of oxygen that large insects take in is too great to be attributed to diffusion</p> <p>44. New sensor technology may make it possible to link the digital world of computing to the physical world as never before. The sensor technology would provide data on the number of consumers in real time to fields like energy, traffic management, and health care. Since linking the digital world of computing to the physical world depends on advances in analytics software, it follows that analytics software enables the sensor technology.</p> <p>Which one of the following best identifies the flaw in the above reasoning?</p> <p>(a) It fails to demonstrate a necessary relation between analytics software and sensor technology</p> <p>(b) It assumes that the new sensor technology would provide real data</p> <p>(c) It assumes that linking the digital world and the physical world depends solely on analytics software</p> <p>(d) It does not take into account the fact that the direction in which analytics software may advance cannot yet be known</p> <p>45. British Colonial troops engaged in biological warfare, a group of revisionist historians argue, when they distributed pox infected blankets to Native Americans. These Native Americans fought on the side of the French, who were enemies of the British, during 18th century battles over Western U.S. territories. But for one thing, there are few indications that Native Americans in any significant number took up weapons in support of the French forces.</p> <p>For another, the Native American population suffered two devastating smallpox epidemics as a result of the contact of trade prior to the alleged incident, and so the device of the pox-infected blankets would have been clearly superfluous. Therefore, the claim of the revisionist historians is highly doubtful.</p> <p>Which one of the following is an underlying assumption of the above argument?</p> <p>(a) The Native Americans became allies of the French because both were enemies of the British</p>
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<p>(b) The French forces could not have distributed the pox infected blankets</p> <p>(c) Distributing pox infected blankets is an example of biological warfare</p> <p>(d) The smallpox epidemic already suffered by Native Americans would have immunized all Native Americans against smallpox</p> <p>46. Normally, increases in the price of a product decrease its sales except when the price increase accompanies an improvement in the product. Art is unusual, however. Often increases in the price of a particular artist's paintings will result in increased sales, even when the size, medium and style of the painting remains unchanged. Which of the following, if true, does most to explain the anomaly described above?</p> <p>(a) The choice of paintings on the market by various artists is extremely wide</p> <p>(b) Many consumers make decisions about which painting to purchase on the basis of art reviews published by galleries</p> <p>(c) Consumers selecting a painting in a gallery often use the price charged as their main guide to the painting's quality</p> <p>(d) Gallery owners can generally increase the sales of a beginner artist's paintings temporarily by introducing a price discount</p> <p>47. A man can do a piece of work in 60 hours. If he takes his son with him and both work together then the work is finished in 40 hours. How many hours will the son take to do the same job, if he worked alone on the job?</p> <p>(a) 20</p> <p>(b) 60</p> <p>(c) 100</p> <p>(d) 120</p> <p>48. Due to hole at the bottom of the tank, a tap takes 2 more minutes to completely fill the tank. Due to leakage of water through this hole, a bucket filled completely with water gets emptied in 4 minutes. In how much time can the tap fill the tank, if there was no hole at the bottom at the tank?</p> <p>(a) 8 min</p>	<p>(b) 2 min</p> <p>(c) 4 min</p> <p>(d) 6 min</p> <p>49. A can complete a project in 20 days and B can complete the same project in 30 days. If A and B start working on the project together and A quits 10 days before the project is completed, in how many days will the project be completed?</p> <p>(a) 18</p> <p>(b) 27</p> <p>(c) 26.67</p> <p>(d) 16</p> <p>50. A red light flashes 3 times per minute and a green light flashes 5 times in two minutes at regular intervals. If both lights start flashing at the same time, how many times do they flash together in each hour?</p> <p>(a) 30</p> <p>(b) 29</p> <p>(c) 31</p> <p>(d) 32</p> <p>51. If the wheel of a bicycle makes 560 revolutions in travelling 1.1 km, what is its radius?</p> <p>(a) 31.25 cm</p> <p>(b) 37.75 cm</p> <p>(c) 35.15 cm</p> <p>(d) 11.25 cm</p> <p>52. A ship develops a leak 12 km from the shore. Despite the leak, the ship is able to move towards the shore at a speed of 8 km/hr. However, the ship can stay afloat only for 20 minutes. If a rescue vessel were to leave from the shore towards the ship and it takes 4 minutes to evacuate the crew and passengers of the ship, what should be the minimum speed of the rescue vessel in order to be able to successfully rescue the people aboard the ship?</p> <p>(a) 53 km/hr</p>
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(b) 37 km/hr	(a) 30
(c) 28 km/hr	(b) 29
(d) 44 km/hr	(c) 31
53. Rajesh travelled from city A to city B covering as much distance in the second part as he did in the first part of this journey. His speed during the second part was twice as that of the speed during the first part of the journey. What is his average speed of journey during the entire travel?	(d) 32
(a) His average speed is the harmonic mean of the individual speeds for the two parts	57. The monthly incomes of A and B are in the ratio 4 : 5, their expenses are in the ratio 5 : 6. If 'A' saves Rs.25 per month and 'B' saves Rs.50 per month, what are their respective incomes?
(b) His average speed is the arithmetic mean of the individual speeds for the two parts	(a) Rs.400 and Rs.500
(c) His average speed is the geometric mean of the individual speeds for the two parts	(b) Rs.240 and Rs.300
(d) Cannot be determined	(c) Rs.320 and Rs.400
54. By walking at $\frac{3}{4}$ th of his usual speed, a man reaches office 20 minutes later than usual. What is his usual time?	(d) Rs.440 and Rs.550
(a) 30 min	58. There is certain numbers of toys in the box. They are divided into such a way that the person who gets $\frac{1}{4}$ of the whole gets thrice of what the others get on an average. Find the number of people amongst whom the toys are distributed?
(b) 60 min	(a) 8
(c) 70 min	(b) 10
(d) 50 min	(c) 12
55. Due to hole at the bottom of the tank, a tap takes 2 more minutes to completely fill the tank. Due to leakage of water through this hole, a bucket filled completely with water gets emptied in 4 minutes. In how much time can the tap fill the tank, if there was no hole at the bottom at the tank?	(d) 9
(a) 8 min	59. Rs 4830 is divided among Abhishek, Dishant and Prashant such that if Abhishek's share diminishes by Rs 5, Dishant's share diminishes by Rs 10 and Prashant's share diminishes by Rs 15, their shares will be in the ratio 5:4:3. Find the Dishant's original share?
(b) 2 min	(a) 1610
(c) 4 min	(b) 2010
(d) 6 min	(c) 2410
56. A red light flashes 3 times per minute and a green light flashes 5 times in two minutes at regular intervals. If both lights start flashing at the same time, how many times do they flash together in each hour?	(d) 1590
	60. A 6x6 grid is cut from an 8x8 chessboard. In how many ways can we put two identical coins, one on the black square and one on a white square on the grid, such that they are not placed in the same row or in the same column?
	(a) 216

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(b) 324

(c) 144

(d) 108

61. A committee is to be formed comprising 7 members such that there is a simple majority of men and at least 1 woman. The shortlist consists of 9 men and 6 women. In how many ways can this committee be formed?

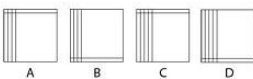
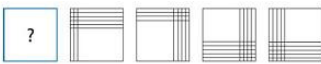
(a) 3724

(b) 3630

(c) 4914

(d) 3824

62.



What comes next in the sequence?

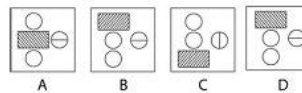
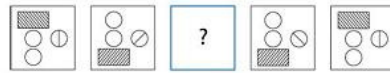
(a)

(b)

(c)

(d)

63.



What comes next in the sequence?

(a)

(b)

(c)

(d)

64. A film was recently released on DVD and during its first week of sales, 2,150 copies are sold. If the DVD is sold for £9.99 each, how much revenue was made on average per day during the first week of sales?

(a) 2,954.21

(b) 3,068.36

(c) 3,145.87

(d) 3,245.96

65. A cola drink contains a secret ingredient. Every litre of cola contains 32 grams of this secret ingredient. If the cola is sold wholesale by the barrel, and each barrel contains 40 gallons of cola, how much of the secret ingredient is present in the barrel? (1 gallon = 4.54609 litres)

(a) 5,475 grams

(b) 5,585 grams

(c) 5,657 grams

(d) 5,819 grams

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66. An art broker sells paintings from leading artists for a commission of 10%. Similarly, when auctioning paintings, the broker earns an additional £150 per item through auction fees. If the broker sells 8 paintings not at auction for £8,000 a piece, and sells 4 paintings at auction for a total of £32,000, how much does the broker earn in total?

- (a) 10,200
- (b) 11,400
- (c) 12,600
- (d) 13,800

67. A bamboo shoot grows at a rate of 95 cm per day under optimum circumstances. If a bamboo field contains 1,500 bamboo shoots, how much additional length would be gained in total over a week under optimum circumstances?

- (a) 987,500
- (b) 997,500
- (c) 107,500
- (d) 117,500

68. A tea expert claims that he can easily find out whether milk or tea leaves were added first to water just by tasting the cup of tea. In order to check this claim 10 cups of tea are prepared, 5 in one way and 5 in other. Find the different possible ways of presenting these 10 cups to the expert

- (a) 252
- (b) 240
- (c) 300
- (d) 340

69. Find the missing number:
17, 2, 15, 7, 8, 1, ?

- (a) 3
- (b) 5
- (c) 11
- (d) 7

70.

Find the missing number:

24	60	32	45	18
4	12	8	?	9

- (a) 10
- (b) 11
- (c) 15
- (d) 7

71. Find the missing number:
93, 96, 102, 104, 108, ?

- (a) 118
- (b) 112
- (c) 116
- (d) 122

72. I have an amount of Rs 10 lakh, which I want to invest in stocks of some companies. I always invest only amounts that are multiples of Rs 1 lakh in the stock of any company. If I can choose from among the stocks of five different companies, in how many ways can I invest the entire amount that I have?

- (a) 252
- (b) 250
- (c) 1001
- (d) 1089

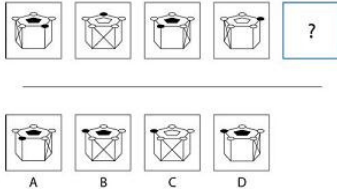
73. This is data supplied by the cabbage growers union report for 2007: 80% of cabbages collected were heavy (over 0.5 kg), 10% of cabbages were green, 60% were red and 50% were big (having a diameter of over 10 cm). Which of the following statements must be false?

- (a) All red cabbages weren't big

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- (b) 30% of red cabbages were big
- (c) There were no cabbages that were both green and big
- (d) Half of the cabbages were small

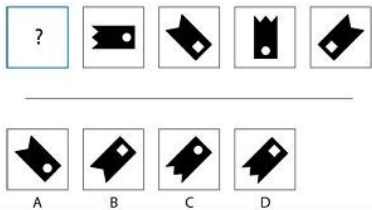
74.



What comes next in the sequence?

- (a)
- (b)
- (c)
- (d)

75.



What comes next in the sequence?

- (a)
- (b)
- (c)
- (d)

76.

In 2011, the army announced that thirty thousand redundancies were to be made over the next ten years as a result of the economic climate. Such cuts, while perhaps economically necessary, are likely to leave those troops on the front line exposed and at further risk. At what point do the hindrances of economical cut backs outweigh the benefits? Further cut-backs expected are those to legal aid and speech therapy services; leaving some of the most vulnerable individuals in society worse off. However, some commentators suggest cut backs to legal aid are not only needed, but welcomed. It is hoped, somewhat naively, that a reduction in the amount of legal aid will prevent fictitious claims and reduce the number of divorces. This author is of the view that such cuts will only affect those who have suffered and need help; those wrongly accused who cannot afford who can no longer afford the legal price of freedom. After all, aren't our remaining soldiers fighting for freedom?

Which one of the following statements is false?

- (a) The army plans to make thirty thousand redundancies
- (b) The budget cuts will affect the most vulnerable individuals most
- (c) The budget for legal aid may be cut
- (d) Legal aid provides for fictitious claims and encourages divorce

77.

This passage discusses the process of creating glow in the dark stars. These plastic stars have an adhesive on one side and stick to the ceiling, providing a dim light in dark rooms. The target audience for this item ranges from young children to teenagers, who may be afraid of the dark or wish to decorate their room. Glow in the dark stars are created from thin sheets of plastic.

These sheets are passed through a stamp-cutting machine which passes the sheet of plastic along a conveyer-belt and cuts the star shapes from the plastic. The cut stars are lifted from the sheet by a further part of this machine, whilst the remaining scrap material continues along the conveyer-belt and is then disposed of. Double-sided adhesive stickers are applied to one side of the stars by hand.

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Which one of the following statements is most true?

- (a) The stars are made by hand
- (b) The stars are made from recyclable materials
- (c) The stars are normally yellow in colour
- (d) The stars are cut by a machine but the adhesive is attached by hand

78.

In today's competitive job market, educational achievement is of even greater importance. For this reason, it is not only the result of exams which are important, or even which university or college you attend. In today's climate, a further worry is which primary school students attend.

In 2010, over 30,000 parents joined waiting lists for their children to attend a fee paying primary school. This figure is almost double that for the year of 2000. In this way, the UK is following in the footsteps of the United States, where it is estimated that one eighth of all primary schools are fee paying.

Which of the following statements is false?

- (a) The waiting list for primary private schools in 2010 was double that of 2000
- (b) Roughly one in eight primary schools in the United States are fee paying
- (c) Educational achievement is highly important in the current job market
- (d) One in eight primary schools in UK is private

79.

This passage is based on the popularity of websites. It compares figures published by 'Ranking's Today', a publishing group which collects and analysis information on the popularity of products. 'Ranking's Today' note that such figures are based on the annual income generated by such websites and the number of visitors to websites, also known as website traffic.

As a result of these figures, we can see that the two most popular types of website are price comparison sites and social networking sites. It is estimated that over three billion pounds in advertising is generated by such websites every year. As a result of this information, companies are better informed as to where they should advertise to reach the largest possible audience.

Which of the following statements best completes the following sentence?

'Ranking's Today' is a company which ...

- (a) Collects and provides information on products
- (b) Collects and provides information on social networking websites only
- (c) Provides information on how to achieve the greatest profit
- (d) Makes an annual total profit of three million pounds every year

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80.

Statistics suggest that the city of London is the number one work destination in the United Kingdom. As one of the most popular cities in the world, London is renowned for its cosmopolitan atmosphere, fast-pace environment and non-stop social scene.

As a result of this, London attracts many recent graduates and young-workers. In addition to this, London boasts strengths in areas such as law, commerce, arts and politics. It is the legal capital of England, the home of English politics and proudly welcomes a diverse population. The second most-popular work destination in the UK is Manchester, closely followed by Birmingham. Both of these cities boast continually rising rates of employment.

Which one of the following statements is false?

- (a) London is one of the most popular destination in the UK for young workers
- (b) London is the legal capital of the UK
- (c) London boasts continually rising rates of employment
- (d) Birmingham is the third most popular work destination in the UK

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Answer Sheet

	A	B	C	D		A	B	C	D		A	B	C	D		A	B	C	D
1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	21	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	41	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	61	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	22	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	42	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	62	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	23	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	43	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	63	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	24	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	44	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	64	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	25	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	45	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	65	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	26	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	46	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	66	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	27	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	47	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	67	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	28	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	48	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	68	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	29	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	49	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	69	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	30	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	50	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	70	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	31	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	51	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	71	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	32	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	52	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	72	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	33	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	53	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	73	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	34	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	54	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	74	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	35	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	55	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	75	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
16	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	36	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	56	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	76	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
17	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	37	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	57	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	77	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
18	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	38	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	58	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	78	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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