

Model Test Paper 57
General Study Paper II

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TEST BOOKLET
GENERAL STUDIES
Paper-II

A

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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Many of the serious health concerns in modern America can be linked to poor diet. People who regularly consume foods high in sodium, sugar, and saturated fats not only increase their chances of obesity, but also increase their risks of developing heart disease, hypertension, diabetes, and several types of cancer. Although some people who regularly consume unhealthy foods do so knowingly, there is also a significant portion of the population that remains undereducated about proper nutrition. What is more, individuals who live in food deserts—areas in low-income neighborhoods that lack easy access to healthy, affordable food—may not even have the opportunity to obtain nutritious food. Although there have been some recent government efforts to reduce the number of food deserts, more community-based efforts should be encouraged and supported.

Food deserts are located in high-poverty areas, such as sparsely populated rural areas or densely populated, low-income urban centers. Food deserts most often develop when major supermarket chains either relocate out of these areas or simply refrain from building stores there in the first place. Major food retailer chains tend to limit their store locations to wealthier urban or suburban neighborhoods. This means that those who live in high-poverty areas often also live miles away from the fresh meats, dairy products, and produce available at supermarkets. Residents of these areas who do not have cars are thus forced to travel long distances on public transportation to do their grocery shopping, or else they are limited to the food available at local convenience stores and gas stations. These types of food retailers often only sell packaged, processed foods that offer little nutritional value.

Furthermore, fast food restaurants are disproportionately concentrated in low-income areas; recent estimates suggest that those living in the poorest areas of a city experience 2.5 times more exposure to fast food restaurants than the wealthiest inhabitants of the city. Because individuals who live in food deserts tend to get their meals from fast food restaurants or convenience stores, they often suffer from a variety of health issues. Research has found that individuals who live in low-income neighborhoods are much more likely to develop problems with obesity, diabetes, and hypertension than those who live in more affluent neighborhoods. A solution to the problem of food deserts seems obvious: more supermarkets should be built in low-income neighborhoods. The problem with this solution, of course, is that it is difficult to lure supermarket chains into poor areas. Because poorer people have less money to spend on food, supermarket chains do not consider them to be attractive customers. One way that the

government can help to offset this issue is by offering tax breaks or other incentives for supermarkets in low-income areas. In 2010, the Obama administration implemented the Healthy Food Financing program, which is a set of initiatives designed to help bring grocery stores into areas currently designated as food deserts.

While this federal program is a commendable effort to improve low-income residents' access to healthy food, local initiatives often have a stronger and more immediate impact. Community gardens, independent food stores, co-ops, and farmers' markets are all examples of local initiatives that can substitute for or supplement the opening of a major chain supermarket. Despite the time, dedication, and funds required for community members to initiate such programs, these efforts can be incredibly beneficial, not only in providing people with access to healthier foods, but also in instilling a sense of community in the residents of these neighborhoods.

1. Which of the following would be the best title for the passage?

- (a) Supermarkets' Contributions to Obesity in America
- (b) The Dangers of Fast Food
- (c) Food Deserts: the Problem and the Solutions
- (d) Food Deserts and Rural America

2. Based on information in the passage, it can be inferred that if supermarkets opened locations in more low income areas,

- (a) members of low-income households would not be likely to go there because they are not concerned with eating healthy foods
- (b) the supermarkets would be unable to compete with the fast food chains located in low-income areas
- (c) the convenience stores in the area would likely be put out of business because of increased competition with grocery stores
- (d) the health of low-income residents would be more likely to improve, as residents would have easier access to healthy food

3. Which of the following pieces of evidence, if true, would best support the author's argument in paragraph 3?

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<p>(a) A study completed in 2010 shows that the farther a low-income housing development is from a supermarket, the more likely residents of that development are to have a higher body mass index, which is linked to being overweight or obese</p> <p>(b) On average, energy-dense “junk foods” cost \$1.76 per 1000 calories, while low-energy, but nutrient-dense foods like fresh produce cost \$18.16 per 1000 calories</p> <p>(c) Access to healthy foods has become especially difficult for those living in the largely black and Latino neighborhoods of cities like Los Angeles, Memphis, Chicago, and Detroit. Some experts estimate that nearly 50% of Detroit’s 900,000 residents live in a food desert</p> <p>(d) Research shows that Americans who live in Appalachia and the South are the least likely to be physically active in their leisure time. In many counties in that region, more than 29% of adults report getting no physical activity other than at their regular job.</p> <p>4. As used in paragraph 3, which is the best synonym for affluent?</p> <p>(a) healthy</p> <p>(b) updated</p> <p>(c) corrupt</p> <p>(d) wealthy</p> <p>5. Based on information in the passage, it can be inferred that the author considers major supermarkets to be</p> <p>I. more interested in increasing their profits than in helping people</p> <p>II. unwilling to build new stores in low-income neighborhoods despite incentives offered by the Healthy Food Financing program</p> <p>III. guiltier than fast food restaurants of contributing to the obesity epidemic</p> <p>(a) I only</p> <p>(b) II only</p> <p>(c) I and II only</p> <p>(d) II and III only</p> <p>6. As used in paragraph 5, which is the best synonym for commendable?</p>	<p>(a) useless</p> <p>(b) praiseworthy</p> <p>(c) essential</p> <p>(d) superficial</p> <p>This November, I encourage the people of Arkansas to vote NO on a referendum to repeal the state’s motorcycle helmet law. The state’s current helmet law saves hundreds of lives per year, and it is senseless that people should be injured or killed merely because they are too vain to wear a helmet. Furthermore, helmet laws help to reduce public expenditures on health care and have even been shown to deter motorcycle theft. For these reasons, the citizens of Arkansas must oppose this referendum.</p> <p>One hardly needs to appeal to statistics to show that helmets protect motorcyclists against injury or death. For those who are skeptical, however, the National Highway Traffic Safety Administration (NHTSA) calculates that in an accident helmets reduce the likelihood of fatal injury by 29%. After California passed its helmet law in 1992, that state saw motorcycle-related fatalities decrease by 37% in a single year. These statistics are impossible to ignore. If motorcyclists wish to protect themselves against injury and death, they should wear a helmet whenever they ride.</p> <p>Many opponents of the helmet law agree that helmets save motorcyclists’ lives, but insist that the decision to wear a helmet should be left to the individual rider. Perhaps this argument would be valid if motorcyclists were the only ones negatively affected by their decision, but this is not the case. A 2002 study by the NHTSA concluded that only about half of all injured motorcyclists were properly insured, which means many of these riders likely relied on public funds to subsidize their healthcare costs. If the citizens of Arkansas choose to repeal the helmet law, we can expect these costs to rise significantly, and at a time when our state is in a financial crisis.</p> <p>Helmet laws can also help reduce motorcycle theft. Few thieves think to bring a helmet with them when they steal a motorcycle, which makes them much easier for police to spot. In addition to making it easier to apprehend motorcycle thieves and recover stolen bikes, evidence shows that helmet laws can deter motorcycle theft from happening in the first place. After Texas enacted a statewide helmet law, cities there saw rates of motorcycle theft drop by up to 44%. A drop in the rates of motorcycle theft directly reduces law enforcement expenses related to this crime, which is another benefit to all citizens.</p>
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<p>Opponents of the helmet law offer two main arguments. First, the law's detractors argue that properly educating riders is the best way to avoid accidents. I agree entirely; all motorcycle riders should be properly educated and should ride their bikes responsibly. Some accidents, however, are unavoidable, and as I have argued, helmets significantly reduce health care expenditures associated with all accidents. Second, opponents argue that helmet laws infringe on their personal freedom. Again, I agree that the government should avoid constraining individual choice whenever possible, but as I have shown, the decision to wear a helmet does not affect only the rider, so this issue is not a simple matter of individual liberty. The government must not allow a few individuals to make society bear the burden of their irresponsible choices.</p> <p>In a perfect world, helmet laws would not be necessary because all riders would wear them voluntarily. However, we do not live in a perfect world. Therefore we must require motorcyclists to make this socially responsible decision. As I have argued, helmet laws not only benefit motorcyclists, but all citizens. Please join me this November in voting NO on the referendum to repeal the state helmet law</p> <p>7. As used in paragraph 2, which is the best antonym for skeptical?</p> <p>(a) doubtful (b) trustworthy (c) sympathetic (d) gullible</p> <p>8. Which of the following statements, if true, would provide the strongest evidence against the author's claims in this passage?</p> <p>(a) Studies show that over 80% of motorcyclists wear a helmet even when not required to do so by law (b) After enacting its helmet law, Wisconsin saw no significant decrease in healthcare costs related to motorcycle injuries (c) Automobiles are a much more common target for theft than motorcycles (d) Only about 15% of motorcycle accidents can be attributed to negligence on the part of the motorcyclist</p>	<p>9. The main purpose of paragraph 5 is to</p> <p>(a) expose the logical flaws in potential counterarguments (b) assert that the helmet law does not encroach upon personal freedom (c) emphasize the importance of rider education in preventing motorcycle accidents (d) prove that the author shares common ground with opponents of the law</p> <p>10. The tone of the author can best be described as</p> <p>(a) fiery (b) rigid (c) coercive (d) firm</p> <p>11. Which of the following statements can be described as one of the author's unstated assumptions?</p> <p>(a) Motorcyclists should be properly educated and should ride responsibly (b) Helmets help to prevent injury in only the most serious motorcycle accidents (c) Motorcycle theft is a major problem in Arkansas (d) Individuals should be responsible for the costs of their own medical care if they bear some responsibility for their injuries</p> <p>The village of Vestmannaeyjar, in the far northern country of Iceland, is as bright and clean and up-to-date as any American or Canadian suburb. It is located on the island of Heimaey, just off the mainland. One January night in 1973, however, householders were shocked from their sleep. In some backyards, red-hot liquid was spurting from the ground. Flaming "skyrockets" shot up and over the houses. The island's volcano, Helgafell, silent for 7,000 years, was violently erupting!</p> <p>Luckily, the island's fishing fleet was in port, and within 24 hours almost everyone was ferried to the mainland. But then the agony of the island began in earnest. As in a nightmare, fountains of burning lava spouted 300 feet high. Black, baseball-size cinders rained down. An evil-smelling, eye-burning, throat-searing cloud of smoke and gas</p>
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<p>erupted into the air, and a river of lava flowed down the mountain. The constant shriek of escaping steam was punctuated by ear-splitting explosions.</p> <p>As time went on, the once pleasant village of Vestmannaeyjar took on a weird aspect. Its street lamps still burning against the long Arctic night, the town lay under a thick blanket of cinders. All that could be seen above the 10-foot black drifts were the tips of street signs. Some houses had collapsed under the weight of cinders, while others had burst into flames as the heat ignited their oil storage tanks. Lighting the whole lurid scene, fire continued to shoot from the mouth of the looming volcano.</p> <p>The eruption continued for six months. Scientists and reporters arrived from around the world to observe the awesome natural event. But the town did not die that easily. In July, when the eruption ceased, the people of Heimaey Island returned to assess the chances of rebuilding their homes and lives. They found tons of ash covering the ground. The Icelanders are a tough people, however, accustomed to the strange and violent nature of their Arctic land. They dug out their homes. They even used the cinders to build new roads and airport runways. Now the new homes of Heimaey are warmed from water pipes heated by molten lava.</p> <p>12. The village is located on the island of...</p> <p>(a) Vestmannaeyjar (b) Hebrides (c) Heimaey (d) Helgafell</p> <p>13. The color of the hot liquid was...</p> <p>(a) Orange (b) Black (c) Yellow (d) Red</p> <p>14. This liquid was coming from the...</p> <p>(a) Mountains (b) Ground (c) Sea (d) Sky</p>	<p>15. The island's volcano had been inactive for...</p> <p>(a) 70 years (b) 7,000 years (c) 7,000 months (d) 700 years</p> <p>16. Black cinders fell that were the size of...</p> <p>(a) Baseballs (b) Pebbles (c) Golf balls (d) Footballs</p> <p>17. Despite the eruption...</p> <p>(a) The buses kept running (b) The radio stations kept broadcasting (c) The police kept working (d) The street lamps kept burning</p> <p>18. This volcanic eruption lasted for six...</p> <p>(a) Weeks (b) Hours (c) Months (d) Days</p> <p>Negotiating is a vital business skill, as it aims to improve our bargaining poaiton, and helps to achieve a deal which benefits everyone. When carrying out a negotiation it is important to have a clear idea of what your bottom line offer will be. This figure will be the lowest amount you are willing to pay/receive.</p> <p>This figure is important for two reasons. Firstly, it si important so that you do not end up paying too much or accepting too little, ending up bound to a deal that is not in your favour. Secondly, it is important that you know what this figure is, as offering too little may offend the opposing party, who may walk away from the negotiation and the business deal. The use of the correct tone and language are also key skills when negotiation, as, in business, this process often involves a party you want to work with. Therefore, your manner must be a civil one.</p>
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<p>19. Which one of the following statements is false?</p> <p>(a) Bottom line offers represent the lowest offer you are willing to accept</p> <p>(b) With no bottom line offer you risk paying too much or being paid too little</p> <p>(c) The best tone for a negotiation is an adversarial one</p> <p>(d) Offering too little in a negotiation can offend the other party</p> <p>The Honourable Society of the Middle Temple was established in the 14th century. It is situated on London Embankment, on the original site of the Knights Templar. The Society itself has a rich history, containing members such as Sir Walter Raleigh.</p> <p>The budding also boasts historical visitors such as Queen Elizabeth 1st and Edward VII. More recently, the Middle Temple building has also been home to some famous guests, with scenes from the Harry Potter films taking place there. The society itself is now a legal education establishment, playing a key role in the education of those wishing to become barristers in England and Wales.</p> <p>20. Which of the statements below does not correctly complete the following sentence? The Honourable Society of the Middle Temple...</p> <p>(a) Has been visited by Queen Elizabeth 1st and Edward VII</p> <p>(b) Has had well known members such as Sir Walter Raleigh</p> <p>(c) Is a legal education establishment</p> <p>(d) Was purposely built near the London Embankment Underground station</p> <p>The governance of financial institutions is an important policy area. By governance, we mean the running of the company by a controlling party; usually by managers, directors or shareholders. The 2008 financial crisis highlighted several failings in the governance of financial institutions. For example the failure to understand the wide reaching effect of their actions. In addition to this high level of remuneration, corporate greed and excessive risk taking have all been noted as factors in the collapse of several previously leading financial institutions. While these failures are varied, the key criticism of the current style of</p>	<p>governance is an inability to learn from past mistakes, leading to the repeat of this cycle of failure.</p> <p>21. Which of the following option is not listed as one of the failures of those governing financial institutions?</p> <p>(a) An inability to learn from their past mistakes</p> <p>(b) The taking of too many risks</p> <p>(c) Corporate social responsibility</p> <p>(d) Greed</p> <p>Corporate social responsibility, also known as 'CSR' is a term used to describe a way in which companies conduct their business. It is the view that the profitability of the business should be considered in-line with values such as honesty, fairness and transparency so as to benefit the society they exist in. Other terms for this school of thought include 'business ethics' and 'sustainability'.</p> <p>CSR proposes that the actions of companies can have such wide reaching impact on the surroundings that they have a responsibility to conduct their business in a responsible manner. For example, their actions can have an effect on employees and their families to the economy as a whole</p> <p>22. Which one of the statements below correctly completes the following sentence? Corporate social responsibility, also known as CSR, proposes that...</p> <p>(a) Businesses have a responsibility to make profit</p> <p>(b) Businesses have a responsibility to their shareholders and directors</p> <p>(c) Businesses have a responsibility to the environment</p> <p>(d) Businesses should act in a responsible and ethical manner</p> <p>Statistics suggest that the level of trust inspired by business leaders and companies is at an all-time low. This information can be seen in the results of recent opinion polls, with business leaders in the bottom third of those trusted to tell the truth, in the same category as politicians.</p> <p>This appears to be a global trend, with only 5 out of 21 countries naming business leaders as 'trustworthy'. When individuals were asked why</p>
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they had responded this way, over 20% of respondents stated they thought business leaders were greedy. A further 38% blamed business leaders for the current state of the economy. However, the overwhelming response was that respondents expected business leaders to lie to benefit themselves.

23. Which one of the following statements is false?

- (a) 30% of people blamed business leaders for the current state of the economy
- (b) The minority of people surveyed named business leaders as 'trustworthy'
- (c) 20% of people thought business leaders were greedy
- (d) Business leaders are in the same category as politicians for truthfulness

Competition between television channel providers to broadcast movies is fierce. The following information has been gathered by the UK Competition Commission, who investigated the acquisition of movie rights by a number of leading broadcasters in the UK.

The Commission found that competition is limited by the dominant provider, SKY TV. Competing companies, such as British Telecom and Virgin Cable, are currently unable to invest the same amount into the acquisition of movie rights without placing themselves in financial jeopardy.

This allows the dominant channel provider to charge larger amounts as there is no fear of being under-sold by a competitor. In this way, pay-per view movies are currently more expensive than they might otherwise be.

24. Which one of the following statements is definitely true?

- (a) British Telecom and Virgin Cable have fewer of subscribers than SKY TV
- (b) The Competition Commission looks at all broadcasters in the UK
- (c) SKY TV is currently the dominant provider and can limit competition
- (d) Pay-per view movies are less popular than they may otherwise be

The dominant mobile network in the UK is Orange. Statistics suggest that, since purchasing T-mobile, the Orange group provides a service to over 30% of mobile users in the United Kingdom. The second most popular network is O2. This company provides network coverage for an estimated 30% of all mobile users in the UK. O2 has proved to be the fastest growing network. This trend mirrors the range of prices offered by the network, the deals available and the amount of revenue spent on advertising. The smallest network providers in the UK are those which offer mobile services as a side-line to their main business, for example supermarket networks. Such providers are responsible for a marginal section of the total mobile service provided in the UK.

25. Which one of the following statements is definitely true?

- (a) O2 offers the cheapest prices
- (b) O2 is the fastest growing network
- (c) Supermarket providers provide 1% of network coverage in the UK
- (d) Since 'Orange' bought 'T mobile', its user coverage has almost doubled

The phenomenon of bottled water has given rise to the creation of a billion pound industry. The cost of bottled water can be up to 10,000 times higher than that of tap water. However, areported 53 billion gallons of bottled water are consumed each year. This is a shocking figure, when considering the fact that much bottled water is actually from municipal water sources; in other words, taps.

In addition, the process of bottling and transporting the water can have detrimental effects on the environment.

Last year over 16 million barrels of oil were used in the production of bottled water. This is enough oil to fuel over half a million cars for an entire year. Finally, statistics suggest that only one in six plastic water bottles are recycled. In this way, the bottled water industry can be seen as not only overly expensive for consumers, but also as damaging for the environment.

26. Which one of the following statements is false?

- (a) Bottled water can be up to 10,000 times higher than the cost of tap water
- (b) Bottled water is 10,000 times higher than the cost of tap water

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<p>(c) The oil from last year's production of bottled water could fuel 500,000 cars</p> <p>(d) The bottled water industry may have a negative effect on the environment</p> <p>Technology and business are having a harmonious relationship. Technological advances can be seen as benefitting companies in several ways; increasing communication, preparation and efficiency. An example of this is provided by tablet computers.</p> <p>Tablets allow for work to be completed remotely and with greater ease. Information, for presentations and so on, can be edited and ready by the time the worker reaches his destination. However, such technological advances mean that workers are completing ever longer hours, unable to leave work unfinished. This also applies to emails, Blackberries, mobiles and other forms of communication; meaning that we are unable to leave our work at work. In this way technology can be seen as placing an ever increasing burden on individuals and blurring the line between home life and work.</p> <p>27. Which of the statements below correctly completes the following sentence? Technological advances can...</p> <p>(a) Be beneficial to businesses by increasing communication</p> <p>(b) Be detrimental to workers as it makes it easier to leave their work at work</p> <p>(c) Be beneficial to businesses as it allows businesses to monitor what staff are doing</p> <p>(d) Be beneficial to workers as it acts as an incentive to work harder</p> <p>The fashion industry is one of the most profitable sectors of the economy. An example of this can be seen in the reported annual profit of the Arcadia Group. The Group, which owns several high-street chains such as Topshop and Miss Selfridge, reported an annual profit of one hundred and eight million pounds last year.</p> <p>Similar figures have also been reported by leading fashion labels Zara and Urban Outfitters. In this way, the fashion industry continues to grow despite the current economic climate. A key aspect of this is that the reported figures are from high-street companies, which promise up-to-date fashion at prices much more widely affordable than those of designers.</p>	<p>28. Which one of the following statements is true?</p> <p>(a) Cheaper fashion labels provide a lower standard of products</p> <p>(b) High-street fashion is more financially accessible than designer</p> <p>(c) High-street fashion provides a higher standard of products</p> <p>(d) Fashion industry is the most profitable sector of the economy</p> <p>The cost of using electrical items, such as tumble dryers, can be one of the greatest household expenses. For this reason, companies offering to reduce the amount of money spent yearly on such items are of increasing popularity. An example of this is provided by the website sus-it.net, which promises to save consumers up to 690 pounds a year by following its simple tips.</p> <p>These tips range from changing your appliances to energy-saving options, to insulating and building advice. Such sites often provide a comparison of the usual running cost of products, allowing consumers to compare models and assess their expected savings.</p> <p>For example, according to the information provided by sus-it.net, a Panasonic NA washing machine can save an average of 32.80 pounds a year compared to other models.</p> <p>29. Which one of the following statements is true?</p> <p>(a) Brands claiming to amount spent on electric items are increasingly popular</p> <p>(b) A way to save money is to avoid using energy saving appliances</p> <p>(c) It is impossible to save money by changing the model of appliance</p> <p>(d) Old-fashioned methods like washing lines and brooms save money</p> <p>Has the idea of health and safety been taken a step too far? Recent changes to the law, aimed at improving the quality of working environments, can be seen to have a detrimental effect. For example, firemen are no longer allowed to use a fireman's pole as this has been noted to cause injury. However, statistics suggest that such injuries amount to a total of 0.02% of all injuries received by fire-fighters.</p>
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<p>In comparison, up to 40% of injuries received by fire-fighters are in the form of bruises, cuts and wounds received at the scene. Such health and safety initiatives can also be seen in other professions. Teachers today are less likely to organise school trips than in previous years, due to the strict nature of health and safety laws. Such laws make it possible for students who are injured during a trip to hold the staff liable.</p> <p>30. Which one of the following statements is correct?</p> <p>(a) Injuries are more likely at the scene than using fireman's-pole</p> <p>(b) injuries using a fireman's-pole are more likely than at the scene</p> <p>(c) Teachers are more likely to take students on trips than ever before</p> <p>(d) Recent health and safety law changes have benefitted work environments</p> <p>31. Three of the following four are alike in a certain way and so form a group. Which is the one that does not belong to that group ?</p> <p>(a) Rabbit</p> <p>(b) Crocodile</p> <p>(c) Earthworm</p> <p>(d) Snail</p> <p>32. Teddy has more fun than Jack. Franklin has less fun than Jack. Teddy has more fun than Franklin. If the first two sentences are true, the third is _____.</p> <p>(a) true</p> <p>(b) false</p> <p>(c) uncertain</p> <p>(d)</p> <p>33. Physics is more difficult than chemistry. Chemistry is easier than philosophy. Philosophy is easier than physics. If the first two sentences are true, the third is _____.</p> <p>(a) true</p> <p>(b) false</p>	<p>(c) uncertain</p> <p>(d)</p> <p>34. It is easier to drive in snow than it is in ice. It is harder to drive in snow than in rain. It is easier to drive in rain than in ice. If the first two sentences are true, the third is _____.</p> <p>(a) false</p> <p>(b) true</p> <p>(c) uncertain</p> <p>(d)</p> <p>35. Nuclear power is more efficient than coal power. Coal power is less efficient than gas power. Gas power is more efficient than nuclear power. If the first two sentences are true, the third is _____.</p> <p>(a) true</p> <p>(b) uncertain</p> <p>(c) false</p> <p>(d)</p> <p>36. There are more cabs than trucks on the roads in New York City. There are more motorcycles than there are trucks on the roads in New York City. There are more cabs than motorcycles on the roads in New York City. If the first two sentences are true, the third is _____.</p> <p>(a) uncertain</p> <p>(b) false</p> <p>(c) true</p> <p>(d)</p> <p>37. Gremlins are more frightening than ogres. Skeletons are less frightening than ogres. Gremlins are more frightening than skeletons. If the first three sentences are true, the fourth is _____.</p> <p>(a) uncertain</p> <p>(b) true</p> <p>(c) false</p> <p>(d)</p>
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<p>38. Fact 1: Islands are surrounded by water Fact 2: Maui is an island Fact 3: Maui was formed by a volcano</p> <p>If the first three statements are facts, which of the following statements must also be a fact?</p> <p>I: Maui is surrounded by water II: All islands are formed by volcanoes III: All volcanoes are on islands</p> <p>(a) I only (b) II only (c) II and III only (d) None of the statements is a known fact.</p> <p>39. Fact 1: Robert has four vehicles Fact 2: Two of the vehicles are red Fact 3: One of the vehicles is a minivan</p> <p>If the first three statements are facts, which of the following statements must also be a fact?</p> <p>I: Robert has a red minivan II: Robert has three cars III: Robert's favorite color is red</p> <p>(a) I only (b) II only (c) II and III only (d) None of the statements is a known fact</p> <p>40. Ms. Forest likes to let her students choose who their partners will be; however, no pair of students may work together more than seven class periods in a row. Adam and Baxter have studied together seven class periods in a row. Carter and Dennis have worked together three class periods in a row. Carter does not want to work with Adam. Who should be assigned to work with Baxter?</p> <p>(a) Carter (b) Adam (c) Dennis (d) Forest</p> <p>41. Four people witnessed a mugging. Each gave a different description of the mugger. Which description is probably right?</p>	<p>(a) He was average height, thin, and middle-aged (b) He was tall, thin, and middle-aged (c) He was tall, thin, and young (d) He was tall, of average weight, and middle-aged</p> <p>42. In a four-day period Monday through Thursday each of the following temporary office workers worked only one day, each a different day. Ms. Johnson was scheduled to work on Monday, but she traded with Mr. Carter, who was originally scheduled to work on Wednesday. Ms. Falk traded with Mr. Kirk, who was originally scheduled to work on Thursday. After all the switching was done, who worked on Tuesday?</p> <p>(a) Mr. Carter (b) Ms. Falk (c) Ms. Johnson (d) Mr. Kirk</p> <p>43. A four-person crew from Classic Colors is painting Mr. Field's house. Michael is painting the front of the house. Ross is in the alley behind the house painting the back. Jed is painting the window frames on the north side, Shawn is on the south. If Michael switches places with Jed, and Jed then switches places with Shawn, where is Shawn?</p> <p>(a) in the alley behind the house (b) on the north side of the house (c) in front of the house (d) on the south side of the house</p> <p>44. Four defensive football players are chasing the opposing wide receiver, who has the ball. Calvin is directly behind the ball carrier. Jenkins and Burton are side by side behind Calvin. Zeller is behind Jenkins and Burton. Calvin tries for the tackle but misses and falls. Burton trips. Which defensive player tackles the receiver?</p> <p>(a) Burton (b) Zeller (c) Jenkins (d) Calvin</p>
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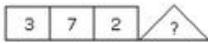
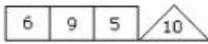
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<p>45. The speed of a boat in still water is 15 km/hr and the rate of current is 3 km/hr. The distance travelled downstream in 12 minutes is</p> <p>(a) 1.2 km (b) 1.8 km (c) 2.4 km (d) 3.6 km</p> <p>46. A wheel that has 6 cogs is meshed with a larger wheel of 14 cogs. When the smaller wheel has made 21 revolutions, then the number of revolutions made by the larger wheel is</p> <p>(a) 4 (b) 9 (c) 12 (d) 49</p> <p>47. What percentage of numbers from 1 to 70 have 1 or 9 in the unit's digit?</p> <p>(a) 1 (b) 14 (c) 20 (d) 21</p> <p>48. If $A = x\%$ of y and $B = y\%$ of x, then which of the following is true?</p> <p>(a) A is smaller than B (b) A is greater than B (c) Relationship between A and B cannot be determined (d) None of these</p> <p>49. The average of 20 numbers is zero. Of them, at the most, how many may be greater than zero?</p> <p>(a) 0 (b) 1 (c) 10 (d) 19</p>	<p>50. The average weight of 8 persons increases by 2.5 kg when a new person comes in place of one of them weighing 65 kg. What might be the weight of the new person?</p> <p>(a) 76 kg (b) 76.5 kg (c) 85 kg (d) Data inadequate</p> <p>51. The angle of elevation of a ladder leaning against a wall is 60° and the foot of the ladder is 4.6 m away from the wall. The length of the ladder is</p> <p>(a) 2.3 m (b) 4.6 m (c) 7.8 m (d) 9.2 m</p> <p>52. An observer 1.6 m tall is $20\sqrt{3}$ away from a tower. The angle of elevation from his eye to the top of the tower is 30°. The height of the tower is</p> <p>(a) 21.6 m (b) 23.2 m (c) 24.72 m (d) None of these</p> <p>53. Look carefully for the pattern, and then choose which pair of numbers comes next</p> <p>61 57 50 61 43 36 61</p> <p>(a) 29 61 (b) 27 20 (c) 31 61 (d) 29 22</p> <p>54. Look carefully for the pattern, and then choose which pair of numbers comes next</p> <p>9 12 11 14 13 16 15</p> <p>(a) 14 13</p>
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60.

Which one will replace the question mark ?



- (a) 1
- (b) 4
- (c) 3
- (d) 6

A school has four sections A, B, C, D of Class IX students

The results of half yearly and annual examinations are shown in the table given below.

Result	No. of Students			
	Section A	Section B	Section C	Section D
Students failed in both Exams	28	23	17	27
Students failed in half-yearly but passed in Annual Exams	14	12	8	13
Students passed in half-yearly but failed in Annual Exams	6	17	9	15
Students passed in both Exams	64	55	46	76

61. If the number of students passing an examination be considered a criteria for comparison of difficulty level of two examinations, which of the following statements is true in this context?

- (a) Half yearly examinations were more difficult
- (b) Annual examinations were more difficult
- (c) Both the examinations had almost the same difficulty level
- (d) The two examinations cannot be compared for difficulty level

62. How many students are there in Class IX in the school?

- (a) 336
- (b) 189
- (c) 335
- (d) 430

63. Which section has the maximum pass percentage in at least one of the two examinations?

- (a) A Section
- (b) B Section
- (c) C Section
- (d) D Section

64. Which section has the maximum success rate in annual examination?

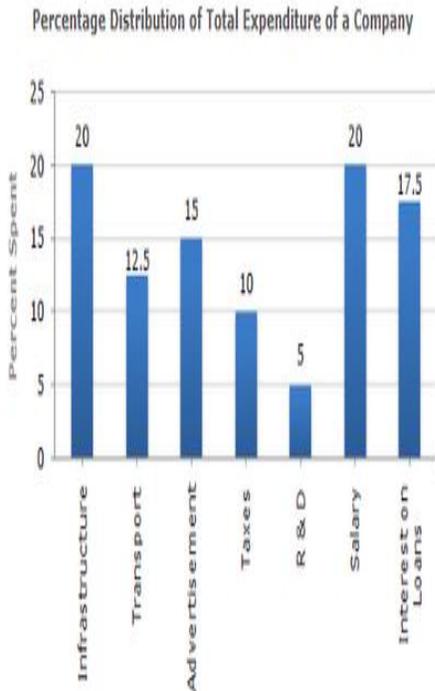
- (a) A Section
- (b) B Section
- (c) C Section
- (d) D Section

65. Which section has the minimum failure rate in half yearly examination?

- (a) A Section
- (b) B Section
- (c) C Section
- (d) D Section

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The bar graph given below shows the percentage distribution of the total expenditures of a company under various expense heads during 2003



66. The total amount of expenditures of the company is how many times of expenditure on research and development?

- (a) 27
- (b) 20
- (c) 18
- (d) 6

67. What is the ratio of the total expenditure on infrastructure and transport to the total expenditure on taxes and interest on loans?

- (a) 5:4
- (b) 8:7
- (c) 9:7
- (d) 13:11

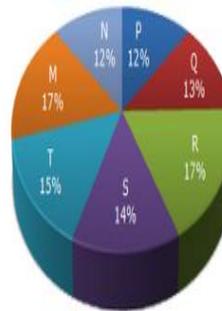
68. The expenditure on the interest on loans is by what percent more than the expenditure on transport?

- (a) 5%
- (b) 10%
- (c) 20%
- (d) 40%

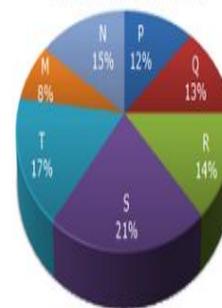
The following pie-charts show the distribution of students of graduate and post-graduate levels in seven different institutes in a town

Distribution of students at graduate and post-graduate levels in seven institutes:

Total Number of Students of Graduate Level = 27300



Total Number of Students of Post-Graduate Level = 24700



69. What is the total number of graduate and post-graduate level students in institute R?

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(a) 8320

(b) 7916

(c) 9116

(d) 8099

70. What is the ratio between the number of students studying at post-graduate and graduate levels respectively from institute S?

(a) 14 : 19

(b) 19 : 21

(c) 17 : 21

(d) 19 : 14

71. How many students of institutes of M and S are studying at graduate level?

(a) 7516

(b) 8463

(c) 9127

(d) 9404

72. What is the ratio between the number of students studying at post-graduate level from institutes S and the number of students studying at graduate level from institute Q?

(a) 13 : 19

(b) 21 : 13

(c) 13 : 8

(d) 19 : 13

73. Total number of students studying at post-graduate level from institutes N and P is

(a) 5601

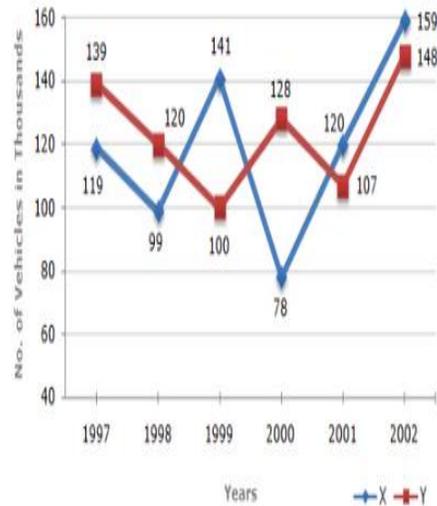
(b) 5944

(c) 6669

(d) 8372

Study the following line graph and answer the questions based on it.

Number of Vehicles Manufactured by Two companies over the Years (Number in Thousands)



74. What is the difference between the number of vehicles manufactured by Company Y in 2000 and 2001 ?

(a) 50000

(b) 42000

(c) 33000

(d) 21000

75. What is the difference between the total productions of the two Companies in the given years ?

(a) 19000

(b) 22000

(c) 26000

(d) 28000

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<p>76. What is the average numbers of vehicles manufactured by Company X over the given period ?</p> <p>(a) 119333 (b) 113666 (c) 112778 (d) 111223</p> <p>77. In which of the following years, the difference between the productions of Companies X and Y was the maximum among the given years ?</p> <p>(a) 1997 (b) 1998 (c) 1999 (d) 2000</p> <p>78. The production of Company Y in 2000 was approximately what percent of the production of Company X in the same year ?</p> <p>(a) 173 (b) 164 (c) 132 (d) 97</p> <p>79. Mrs. Carson took a taxi to meet her three friends for lunch. They were waiting for her outside the restaurant when she pulled up in the car. She was so excited to see her friends that she left her tote bag in the taxi. As the taxi pulled away, she and her friends took notice of the license plate number so they would be able to identify the car when they called the taxi company.</p> <p>#1: The four women seem to agree that the plate starts out with the letter J #2: Three of them agree that the plate ends with 12L #3: Three of them think that the second letter is X, and a different three think that the third letter is K</p> <p>The four license plate numbers below represent what each of the four women thinks she saw. Which one is most likely the license plate number of the taxi?</p>	<p>(a) JXK 12L (b) JYK 12L (c) JXK 12I (d) JXX 12L</p> <p>80. Mark is working with a realtor to find a location for the toy store he plans to open in his town. He is looking for a place that is either in, or not too far from, the center of town and one that would attract the right kind of foot traffic. Which of the following locations should Mark's realtor call to his attention?</p> <p>(a) a storefront in a new high-rise building near the train station in the center of town whose occupants are mainly young, childless professionals who use the train to commute to their offices each day (b) a little shop three blocks away from the town's main street, located across the street from an elementary school and next door to an ice cream store (c) stand-alone storefront on a quiet residential street ten blocks away from the town's center (d) a storefront in a small strip mall located on the outskirts of town that is also occupied by a pharmacy and a dry cleaner</p>
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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"/>
19	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	39	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	59	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	79	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	40	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	60	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	80	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>