

Model Test Paper 58
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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The destructive process of mountaintop removal mining (MTR) has caused permanent damage to Appalachia. Although the law requires that mining companies restore the mountaintops after the mining has been completed, the 1.5 million acres of mountains that have already been removed cannot be regrown, re-built, or replaced. The companies do secure the rock formations to prevent erosion and landslides, but their efforts cannot recreate the once-beautiful mountain landscape. Furthermore, while companies are usually vigilant about securing the rock formations, they seem less interested in restoring the native vegetation. MTR operations clear enormous tracts of forest; some experts estimate that over 2000 square miles of forests in the Appalachian region will have been razed by mining companies by 2012. Instead of replanting the native trees and shrubs that have been cleared, many companies opt to plant cheap, fast-growing, non-native plants, such as *Lespedeza cuneata*, which is officially classified by the USDA as an invasive weed.

Environmental hazards are not only created in preparing a mountaintop for mining, they also continue once the coal has been extracted. After the blast, the excess mountaintop—which miners refer to as “overburden”—is usually dumped into nearby valleys or streams. The overburden contains a variety of toxic substances, including explosive residue, silica, and coal dust. These substances are filled with sulfur, lead, mercury, and other chemicals. Over 700 miles of streams in Appalachia have been contaminated by this dumping. Although the mining companies have built structures known as “sludge dams” that are intended to contain the toxic runoff, these dams can burst or leak, sending thousands of gallons of toxic chemicals into municipal drinking water.

While the Endangered Species Act, the Clean Water Act, and other environmental protection bills can theoretically be enforced to protect Appalachia, local lawmakers have been reluctant to take action for fear of upsetting those who believe that the jobs created by MTR are vital to the community. However, instead of bringing jobs and prosperity to poor Appalachian communities, MTR companies actually bring destruction and poverty. MTR does not involve the amount of human labor required by traditional subsurface mining. Despite the fact that coal production has increased between 1950 and 2004, the human labor force working in these mines has drastically decreased. In the 1950’s, there were approximately 130,000 people employed by the mining companies; by 2004, that number had dwindled to 16,000. Moreover, while the coal companies may make enormous profits from MTR, Appalachian communities located near the mines suffer increased rates of kidney cancer, brain

cancer, lung cancer, chronic pulmonary disorders, hypertension, and vision problems. A variety of studies published in top medical journals link these health problems to the fact that the victims lived in close proximity to the mines.

1. This passage would most likely be found in

- (a) the introduction to a larger work on the history of Appalachia
- (b) the conclusion to a study on the links between coal mining and health problems
- (c) a chapter of a coal miner’s autobiography
- (d) a section providing supporting evidence in a larger work on MTR

2. As used in paragraph 1, which is the best antonym for vigilant?

- (a) cowardly
- (b) frustrated
- (c) displeased
- (d) careless

3. Based on information in the passage, it can be inferred that the author

- (a) used to be employed by an MTR company, but left because he or she was frustrated with its environmental practices
- (b) is more concerned about the environment than he or she is about human lives
- (c) believes that MTR companies care little for the environment or for the Appalachian community
- (d) works for an environmental protection group or agency

4. Which of the following statements from the passage represents an opinion, as opposed to a fact?

- (a) “Although the mining companies have built structures known as ‘sludge dams’ that are intended to contain the toxic runoff, these dams can burst or leak, sending thousands of gallons of toxic chemicals into municipal drinking water.”
- (b) “However, instead of bringing jobs and prosperity to poor Appalachian communities, MTR companies actually bring destruction and poverty.”

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<p>(c) "The overburden contains a variety of toxic substances, including explosive residue, silica, and coal dust."</p> <p>(d) "While the coal companies may make enormous profits from MTR, Appalachian communities located near the mines suffer increased rates of kidney cancer, brain cancer, lung cancer, chronic pulmonary disorders, hypertension, and vision problems."</p> <p>5. In paragraph 1, the author mentions <i>Lespedeza cuneata</i> in order to</p> <p>(a) provide an example of the natural vegetation that grew on the mountains before MTR companies cleared the forests</p> <p>(b) identify one type of plant that is likely to flourish on the newly-blasted mountaintops</p> <p>(c) justify the reasoning behind the MTR companies' decision to plant a non-native species where the forests once were</p> <p>(d) argue that the MTR companies are more interested in saving money than addressing the damage they have caused to the environment</p> <p>6. According to the passage, the way in which MTR companies dispose of the overburden is hazardous because</p> <p>I. the mining companies continue extracting coal from the overburden, thus putting additional pressure on the environment</p> <p>II. the sludge dams are not a failsafe containment system</p> <p>III. MTR companies often dump toxic waste directly into the municipal water supply</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>7. Which piece of evidence, if true, would best strengthen the author's argument in the final paragraph?</p> <p>(a) Mining counties in West Virginia are some of the poorest in the nation</p> <p>(b) Less than 8% of the coal produced in the United States of America comes from MTR</p>	<p>operations in the Appalachian Mountains. More than 400 mountaintops in Appalachia have been destroyed for this coal</p> <p>(c) MTR is a wholly unsustainable process; the reserves of coal located in the Appalachian Mountains will likely last less than 20 more years</p> <p>(d) The Appalachian forests are home to one of the highest concentrations of biodiversity in North America; animals that call Appalachia home include flying squirrels, freshwater mussels, and more different types of salamanders than can be found in one place anywhere else on earth</p> <p>Researches suggest that there are creatures that do not know what light means at the bottom of the sea. They don't have either eyes or ears; they can only feel. There is no day or night for them. There are no winters, no summers, no sun, no moon, and no stars. It is as if a child spent its life in darkness in bed, with nothing to see or hear. How different our own life is! Sight shows us the ground beneath our feet and the heavens above us - the sun, moon, and stars, shooting stars, lightning, and the sunset. It shows us day and night. We are able to hear voices, the sound of the sea, and music. We feel, we taste, we smell. How fortunate we are!</p> <p>8. Judging from the passage, we can say that this story is mainly about</p> <p>(a) life of sea creatures at the bottom of the sea</p> <p>(b) how changes in the seasons are perceived by the deep-sea creatures</p> <p>(c) how wonderful our lives were and will be</p> <p>(d) the superiority of human beings over some creatures in terms of senses</p> <p>9. We discover that the sea creatures in the story</p> <p>(a) have the same senses that we do</p> <p>(b) have no sense of hearing as well as sight</p> <p>(c) hear the sounds of the ocean</p> <p>(d) live in darkness because no light reaches to the bottom</p> <p>10. In the passage a child in darkness is likened to</p> <p>(a) someone who lives where there are no seasons</p> <p>(b) an animal without the sense of touch</p>
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<p>(c) a sea creature with no seeing or hearing ability</p> <p>(d) a deaf child unaffected by the environment</p> <p>Once the leaders of the rebellion were executed or dispersed, the British Government admitted its previous errors - tacitly, of course - and sought to rectify old wrongs. King George III, who had complained that he would go mad if his American colonies were lost, regained his spirits and proved surprisingly forgiving. No more than a third of the colonists had supported the insurrection, in any event, and six years of bloodshed and hardship that followed were quickly forgotten in the era of good feeling after the war. The colonies were placed under a unified government for the first time, and a new capital was established across the East River from Manhattan, in the fertile fields of the Brooklyn.</p> <p>11. The passage states that the British government</p> <p>(a) was punished by the leaders of the rebellion</p> <p>(b) in a way, apologised for its former mistakes after the rebellion was over</p> <p>(c) agreed to release the rebels from the prison</p> <p>(d) was supported by the majority of the colonies</p> <p>12. It's clear from the passage that</p> <p>(a) King George was put in a mental hospital when the American colonies rebelled</p> <p>(b) one third of the colonists were killed in the attempted rebellion</p> <p>(c) after the revolt, the king was not as angry as people had expected</p> <p>(d) the rebels were successful in their attempt to gain power</p> <p>13. After the war,</p> <p>(a) a single government was formed to unite the colonies</p> <p>(b) the clan fighting and rations continued for yet another six years</p> <p>(c) most colonists were still not happy about their position</p> <p>(d) the colonies were full of hatred because of the previous years of death and misery</p>	<p>Genetics is the study of mechanisms of the hereditary process. Modern genetics began with the experiments of Gregor Mendel in 1865. He studied the inheritance of different factors in peas, and found that some traits were "dominant" and some "recessive", the "dominant" appearing in a ratio of very nearly three to one. Mendel's results were ignored for many years until their discovery at the beginning of the twentieth century .</p> <p>14. According to the passage</p> <p>(a) the results of Mendel's experiments were immediately put into practise</p> <p>(b) the purpose of Mendel's experiments was primarily agricultural</p> <p>(c) genetics is essentially concerned with heredity</p> <p>(d) modern genetics owes very little to Mendel's experiments</p> <p>15. Clearly, in the field of genetics,</p> <p>(a) certain traits have been given too much importance</p> <p>(b) the 20th century has contributed very little</p> <p>(c) Mendel's experiments have received and used attention</p> <p>(d) Mendel is the pioneer</p> <p>16. Mendel discovered that</p> <p>(a) recessive traits exceeded the dominant ones</p> <p>(b) in peas, dominant traits appear in a ratio of three to one</p> <p>(c) in peas, nearly one-third of the traits were dominant</p> <p>(d) by 1865 the theory of heredity had been convincingly formulated</p> <p>Any criminal justice system is an apparatus that society uses to enforce the standards of conduct necessary to protect individuals and the community. It operates by apprehending, prosecuting, convicting, sentencing these members of the community who violate the basic rules of group existence. The action taken against lawbreakers is designed to serve three purposes beyond the immediately punitive one. It removes dangerous people from the community; it deters</p>
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<p>others from criminal behaviour and it gives society an opportunity to attempt to transform lawbreakers into law-abiding citizens.</p> <p>17. We understand from the passage that the basic aim of criminal justice is</p> <p>(a) the protection of society and its individuals (b) to define socially acceptable behaviour (c) to educate lawbreakers (d) the violation of the law</p> <p>18. According to the passage, prosecution is</p> <p>(a) a process which follows conviction (b) concerned with the transformation of criminal justice (c) not to be considered a vital part of the criminal justice system (d) actually the removal of lawbreakers from the community</p> <p>19. It is pointed out in the passage that one of the effects of the criminal justice system is to</p> <p>(a) give guidelines for group existence (b) discourage crime (c) prevent the enforcement of capital punishment (d) take immediate action against the community</p> <p>Wages and salaries are usually paid in regular weekly or monthly instalments. However, one's expenses are normally much less regular. Bills often arrive irregularly and are usually to be paid immediately.....</p> <p>20. Which of the following is most appropriate for the gap in the passage?</p> <p>(a) It is dangerous to spend more than one earns (b) Similarly, preparing an annual budget has a number of disadvantages. (c) Of course, much of this expenditure was almost unavoidable (d) Therefore, some form of financial planning is needed</p>	<p>Michelangelo did not like to delegate work to the students in his studio, though at that time the studios of the great masters of one age were the training ground for those of the next. Another was that Michelangelo left a lot of unfinished works.</p> <p>21. Which of the following is most appropriate for the gap in the passage?</p> <p>(a) One of his biographers has criticised (b) It has been suggested that Michelangelo was jealous of talent in others (c) Michelangelo was ambitious, and was satisfied with nothing short of perfection (d) One result of this practice of his was that no great artist emerged from Michelangelo's studio</p> <p>Deserts are vast , barren, rocky and sandy wastes where there is almost no rainfall and little or no vegetation. In fact, Europe is the only continent without a desert. Among the most famous deserts in the world as the Sahara, the Gobi and the Kalahari.</p> <p>22. Which of the following is most appropriate for the gap in the passage?</p> <p>(a) Such regions are found in the interior of Africa, Asia, North America and Australia (b) Another major problem is the sand storm (c) Moreover, many people have lost their lives trying to cross the desert (d) It is, of course, very costly to reclaim desert land in this bay</p> <p>A common issue faced by recent graduates is one of finances. With the problem of increasing living costs compounded by a lack of job opportunities in today's economic climate, graduates must learn to be more prudent with their finances. One popular way to do this is by buying 'budget brand' items at the supermarket. Evidence to support this growing trend can be seen in the sales figures of leading UK supermarkets, which demonstrate that the sale of own-brand items has more than doubled since the beginning of the recession in 2008. In addition to this, many graduates are forced to take part-time jobs, live with friends or family and acknowledge the fact it may take longer than hoped to achieve their career goals.</p>
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<p>23. What one of the following answers is not mentioned in the passage? Due to the current economic climate, graduates are...</p> <p>(a) More likely to buy 'budget brand' items in the supermarket</p> <p>(b) Less likely to be living alone</p> <p>(c) More likely to have part time jobs</p> <p>(d) Less likely to take gap-years</p> <p>Antibac is a company that produces clearing products, such as antibacterial kitchen cleaner. In 2012, Antibac launched a new product, which claimed to be more efficient than any other domestic cleaner. In an attempt to promote this product, Antibac gave away free samples, advertised on local radio stations and placed an ad in a national newspaper. As a result of this, Antibac's new product made record-breaking sales figures in its first month. Antibac are now keen to carry out similar campaigns with its other products and hope to rival the current household names in domestic cleaning products.</p> <p>24. Which of the following statements is true?</p> <p>(a) Antibac's product claims to be more efficient than other domestic cleaners</p> <p>(b) Antibac gave away free samples of national newspapers</p> <p>(c) Antibac gave away free sample of rival products</p> <p>(d) Antibac is a household name in domestic cleaning products</p> <p>The carbonated soft-drinks industry is one of the most profitable industries in the UK. There are three reasons of this. Firstly, the cost of producing carbonated drinks, such as cola and lemonade, costs the producer a fraction of the item's selling price to make. For this reason, the cost to profit ratio is low.</p> <p>Secondly, carbonated soft-drinks are purchased by the largest cross-section of society. Not only are soft-drinks popular amongst children and teenagers, they are a common addition to alcoholic beverages and often chosen by adults wishing to avoid alcohol. For this reason, the large target-audience of soft-drinks is one factor which contributes to the profitability of such products.</p> <p>Finally, research suggests that certain carbonated soft-drinks contain chemicals which have a mildly addictive quality. An example of this is caffeine.</p>	<p>Therefore, many consumers of carbonated drinks are likely to be affected by such substances, leading to repeat purchases and even dependence. Such factors are to the advantage of the industry and lead to the increased profitability of their products.</p> <p>25. Which of the factors below does not contribute to the profitability of the carbonated soft-drinks industry?</p> <p>(a) Cost of production minute to the selling price</p> <p>(b) Carbonated soft-drinks are enjoyed by a wide cross-section of society</p> <p>(c) The soft drinks industry spends 3 billion pounds on advertising on average</p> <p>(d) Carbonated drinks often include mildly addictive substances such as caffeine</p> <p>Are supermarkets to blame for the increase in obesity in the UK? Critics suggest that the low cost of high-fatty foods, such as ready meals, has led to the alarming rates of obesity in the UK. However, an opposing school of thought suggests that other factors are in fact to blame. One possible reason for this is the hectic life-style adopted by many people. In this way, ready-meals can be seen as a quick alternative for individuals who are balancing long-working hours with the demands of family life.</p> <p>Another possible reason for the escalating levels of obesity within the UK is a lack of physical exercise. Furthermore, levels of obesity may be reduced by education; teaching people which foods they should be eating and promoting regular exercise.</p> <p>26. Which one of the following statements is incorrect?</p> <p>(a) Ready-made meals are a quick alternative for individuals with a busy life-style</p> <p>(b) Fast food companies have led to an increased level of obesity in the UK</p> <p>(c) Education people on the benefits of exercise may reduce obesity</p> <p>(d) Low cost of junk food may be to blame for the high levels of obesity</p>
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Online is an internet provider in the UK. Their target audience are those who access the internet on a daily basis for an average of three to four hours. For this reason, Online offers discount packages to new customers who plan to use their internet package to enable them to work from home. Online also offers a ten per cent discount to students and those over the age of sixty-five. However, unlike many of its competitors, Online fails to offer additional services, such as satellite television or phone deals. For this reason, this company is yet to become a well-known household name.

27. Why is Online yet to become a well-known household name?

- (a) Online targets a minority audience
- (b) Online charges more than its competitors
- (c) Online fails to offer satellite television or phone deals
- (d) Online's internet service is limited to three to four hours a day

Technology, such as smart-phones and business software, are said to be making a marked difference to life of local people in Ghana. An example of this can be seen in Janga, in the North of Ghana. Janga's economy is predominantly dependent on the collection and export of Shea nuts, traditionally collected by the women of the community.

Thanks to the introduction of smart phones, Shea nut collectors are now able to attach barcodes to each bag of nuts that they collect. Scanning these barcodes on smart-phones means that an individual can keep track of the delivery. The barcodes also identify which bags belong to whom, so that the collector receives the right price for their product, based on the amount of and the quality of nuts they collected. While this business model is simple, it endows local workers with more control and bargaining power.

28. Which of the following statements is correct?

- (a) Technology increased workers control over the products they sell
- (b) Technology has enabled individual workers to keep in contact
- (c) The business model is described in the passage complicated
- (d) The barcodes on each bag identifies which area the nuts came from

Alternative Dispute Resolution, also known as ADR, is a method employed by the courts of England and Wales in an attempt to reduce the amount of cases that go through the court. In this way it is hoped that ADR will save not only time but also the expense of going to court, ADR is a method by which parties to a dispute are encouraged to resolve their issues by alternative means, such as negotiation. In this way, taking a dispute to court is seen as a last resort when the issued between the parties cannot be resolved by any other means.

A benefit of ADR is that it is less confrontational than going to court. In this way it is an ideal means for the resolution of business disputes, as the working relationship between the parties is better preserved than it many otherwise be. This allows the parties to resolve the dispute and continue in their mutually beneficial business relationship.

29. Which of the following statements is false?

- (a) ADR is a method of resolving disputes without going to court
- (b) The aim of ADR is to save on the expense of going to court
- (c) ADR is that it is less confrontational and many people feel deprived
- (d) ADR enables parties to resolve disputes whilst maintaining their relationship

This passage outlines common ways in which companies aim to resolve disputes between their workers. There are two main approaches to dispute resolution within a company. The first of these is the 'evaluation' approach. This method encourages a meeting between the disputing parties to identify the issues between them. A neutral third party, often a team leader, listens to their issues and aims to find a reasonable compromise to impose upon the parties. There are often sanctions outlined for any breach of this compromise. The second way in which companies often resolve disputes between workers is through the 'facilitative' approach. This method encourages open communication, identifying common ground and encourages the parties to the dispute themselves to find a solution, rather than a third party. A benefit of this approach is that the parties get to discuss their issues openly and provides an opportunity for each party to apologise and move forward.

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<p>30. Which of the statements below completes the following sentence? The 'evaluation' approach to problem solving....</p> <p>(a) Allows the disputing parties to find a solution themselves</p> <p>(b) Requires a neutral third party to find a reasonable compromise</p> <p>(c) Is a method by which companies' analyse potential new business partners</p> <p>(d) Is a method that companies use to assess an employee's contribution</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) Polo</p> <p>(b) Chess</p> <p>(c) Ludo</p> <p>(d) Carrom</p> <p>32. George has a greater salary than John. Filbert has a lower salary than George. John's salary is less than Filbert's. 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>33. Paul is smarter than Peter. Peter is smarter than Andrew. Andrew is smarter than Paul. If the first two sentences are true, the third is _____. Possible Answers:</p> <p>(a) true</p> <p>(b) uncertain</p> <p>(c) false</p> <p>(d)</p> <p>34. Emmanuel is more boring than David. Emmanuel is less boring than John. David is more boring than John. If the first two sentences are true, the third is _____.</p>	<p>(a) false</p> <p>(b) uncertain</p> <p>(c) true</p> <p>(d)</p> <p>35. Children are more immature than adults. Adults are more mature than teenagers. Teenagers are more mature than children. If the first two sentences are true, the third is _____.</p> <p>(a) false</p> <p>(b) uncertain</p> <p>(c) true</p> <p>(d)</p> <p>36. Thomas is braver than Henry. Thomas is more cowardly than Athanasius. Athanasius is braver than Henry. If the first two sentences are true, the third is _____.</p> <p>(a) false</p> <p>(b) uncertain</p> <p>(c) true</p> <p>(d)</p> <p>37. The tuba has a more beautiful tone than the trumpet. The flute has a less beautiful tone than the trumpet. The tuba has a less beautiful tone than the flute. 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>38. Read the question carefully and choose the correct answer. At the baseball game, Henry was sitting in seat 253. Marla was sitting to the right of Henry in seat 254. In the seat to the left of Henry was George. Inez was sitting to the left of George. Which seat is Inez sitting in?</p> <p>(a) 251</p>
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<p>(b) 254 (c) 255 (d) 256</p> <p>39. As they prepare for the state championships, one gymnast must be moved from the Level 2 team to the Level 1 team. The coaches will move the gymnast who has won the biggest prize and who has the most experience. In the last competition, Roberta won a bronze medal and has competed seven times before. Jamie has won a silver medal and has competed fewer times than Roberta. Beth has won a higher medal than Jamie and has competed more times than Roberta. Michele has won a bronze medal, and it is her third time competing. Who will be moved to the Level 1 team?</p> <p>(a) Roberta (b) Beth (c) Michele (d) Jamie</p> <p>40. Four friends in the sixth grade were sharing a pizza. They decided that the oldest friend would get the extra piece. Randy is two months older than Greg, who is three months younger than Ned. Kent is one month older than Greg. Who should get the extra piece of pizza?</p> <p>(a) Randy (b) Greg (c) Ned (d) Kent</p> <p>41. The high school math department needs to appoint a new chairperson, which will be based on seniority. Ms. West has less seniority than Mr. Temple, but more than Ms. Brody. Mr. Rhodes has more seniority than Ms. West, but less than Mr. Temple. Mr. Temple doesn't want the job. Who will be the new math department chairperson?</p> <p>(a) Mr. Rhodes (b) Mr. Temple (c) Ms. West (d) Ms. Brody</p>	<p>42. Danielle has been visiting friends in Ridge-wood for the past two weeks. She is leaving tomorrow morning and her flight is very early. Most of her friends live fairly close to the airport. Madison lives ten miles away. Frances lives five miles away, Samantha, seven miles. Alexis is farther away than Frances, but closer than Samantha. Approximately how far away from the airport is Alexis?</p> <p>(a) nine miles (b) seven miles (c) eight miles (d) six miles</p> <p>43. Nurse Kemp has worked more night shifts in a row than Nurse Rogers, who has worked five. Nurse Miller has worked fifteen night shifts in a row, more than Nurses Kemp and Rogers combined. Nurse Calvin has worked eight night shifts in a row, less than Nurse Kemp. How many night shifts in a row has Nurse Kemp worked?</p> <p>(a) eight (b) nine (c) ten (d) eleven</p> <p>44. Children are in pursuit of a dog whose leash has broken. James is directly behind the dog. Ruby is behind James. Rachel is behind Ruby. Max is ahead of the dog walking down the street in the opposite direction. As the children and dog pass, Max turns around and joins the pursuit. He runs in behind Ruby. James runs faster and is alongside the dog on the left. Ruby runs faster and is alongside the dog on the right. Which child is directly behind the dog?</p> <p>(a) James (b) Ruby (c) Rachel (d) Max</p> <p>45. A and B together have Sterling 1210. If $\frac{4}{15}$ of A's amount is equal to $\frac{2}{5}$ of B's amount, how much amount does B have?</p> <p>(a) Sterling 460</p>
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<p>(b) Sterling 484</p> <p>(c) Sterling 550</p> <p>(d) Sterling 664</p> <p>46. Two numbers are respectively 20% and 50% more than a third number. The ratio of the two numbers is</p> <p>(a) 2 : 5</p> <p>(b) 3 : 5</p> <p>(c) 4 : 5</p> <p>(d) 6 : 7</p> <p>47. A sum of money is to be distributed among A, B, C, D in the proportion of 5 : 2 : 4 : 3. If C gets Euro 1000 more than D, what is B's share?</p> <p>(a) Euro 500</p> <p>(b) Euro 1500</p> <p>(c) Euro 2000</p> <p>(d) None of these</p> <p>48. Seats for Mathematics, Physics and Biology in a school are in the ratio 5 : 7 : 8. There is a proposal to increase these seats by 40%, 50% and 75% respectively. What will be the ratio of increased seats?</p> <p>(a) 2 : 3 : 4</p> <p>(b) 6 : 7 : 8</p> <p>(c) 6 : 8 : 9</p> <p>(d) None of these</p> <p>49. In a mixture 60 litres, the ratio of milk and water 2 : 1. If the this ratio is to be 1 : 2, then the quantity of water to be further added is</p> <p>(a) 20 litres</p> <p>(b) 30 litres</p> <p>(c) 40 litres</p> <p>(d) 60 litres</p>	<p>50. The ratio of the number of boys and girls in a college is 7 : 8. If the percentage increase in the number of boys and girls be 20% and 10% respectively, what will be the new ratio?</p> <p>(a) 8 : 9</p> <p>(b) 17 : 18</p> <p>(c) 21 : 22</p> <p>(d) Cannot be determined</p> <p>51. The sum of three numbers is 98. If the ratio of the first to second is 2 : 3 and that of the second to the third is 5 : 8, then the second number is</p> <p>(a) 20</p> <p>(b) 30</p> <p>(c) 48</p> <p>(d) 58</p> <p>52. The salaries A, B, C are in the ratio 2 : 3 : 5. If the increments of 15%, 10% and 20% are allowed respectively in their salaries, then what will be new ratio of their salaries?</p> <p>(a) 3 : 3 : 10</p> <p>(b) 10 : 11 : 20</p> <p>(c) 23 : 33 : 60</p> <p>(d) Cannot be determined</p> <p>53. A boat takes 90 minutes less to travel 36 miles downstream than to travel the same distance upstream. If the speed of the boat in still water is 10 mph, the speed of the stream is</p> <p>(a) 2 mph</p> <p>(b) 2.5 mph</p> <p>(c) 3 mph</p> <p>(d) 4 mph</p> <p>54. If 7 spiders make 7 webs in 7 days, then 1 spider will make 1 web in how many days?</p> <p>(a) 1</p> <p>(b) 7/2</p>
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<p>(c) 7</p> <p>(d) 49</p> <p>55. From a point P on a level ground, the angle of elevation of the top tower is 30°. If the tower is 100 m high, the distance of point P from the foot of the tower is</p> <p>(a) 149 m</p> <p>(b) 156 m</p> <p>(c) 173 m</p> <p>(d) 200 m</p> <p>56. The captain of a cricket team of 11 members is 26 years old and the wicket keeper is 3 years older. If the ages of these two are excluded, the average age of the remaining players is one year less than the average age of the whole team. What is the average age of the team?</p> <p>(a) 23 years</p> <p>(b) 24 years</p> <p>(c) 25 years</p> <p>(d) None of these</p> <p>57. In a certain school, 20% of students are below 8 years of age. The number of students above 8 years of age is $\frac{2}{3}$ of the number of students of 8 years of age which is 48. What is the total number of students in the school?</p> <p>(a) 72</p> <p>(b) 80</p> <p>(c) 120</p> <p>(d) 100</p> <p>58. The angle of elevation of the sun, when the length of the shadow of a tree 3 times the height of the tree, is</p> <p>(a) 30 degrees</p> <p>(b) 45 degrees</p> <p>(c) 60 degrees</p> <p>(d) 90 degrees</p>	<p>59. The average monthly income of P and Q is Dollar 5050. The average monthly income of Q and R is Dollar 6250 and the average monthly income of P and R is Dollar 5200. The monthly income of P is</p> <p>(a) Dollar 3500</p> <p>(b) Dollar 4000</p> <p>(c) Dollar 4050</p> <p>(d) Dollar 5000</p> <p>60. A student multiplied a number by $\frac{3}{5}$ instead of $\frac{5}{3}$. What is the percentage error in the calculation?</p> <p>(a) 34%</p> <p>(b) 44%</p> <p>(c) 54%</p> <p>(d) 64%</p> <p>61. Look carefully for the pattern, and then choose which pair of numbers comes next</p> <p>4 8 22 12 16 22 20 24</p> <p>(a) 28 32</p> <p>(b) 28 22</p> <p>(c) 22 28</p> <p>(d) 32 36</p> <p>62. Look carefully for the pattern, and then choose which pair of numbers comes next</p> <p>40 40 31 31 22 22 13</p> <p>(a) 13 4</p> <p>(b) 13 5</p> <p>(c) 4 13</p> <p>(d) 9 4</p>
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63. A man took loan from a bank at the rate of 12% p.a. simple interest. After 3 years he had to pay Dollar 5400 interest only for the period. The principal amount borrowed by him was

- (a) Dollar 2000
- (b) Dollar 10,000
- (c) Dollar 15,000
- (d) Dollar 20,000

64. Statement: Should Indian scientists working abroad be called back to India?

Arguments:

- 1. Yes. They must serve the motherland first and forget about discoveries, honours, facilities and all
- 2. No. We have enough talent; let them stay where they want

- (a) Only argument I is strong
- (b) Only argument II is strong
- (c) Either I or II is strong
- (d) Neither I nor II is strong

65. Statement: Should we scrap the system of formal education beyond graduation?

Arguments:

- 1. Yes. It will mean taking employment at an early date
- 2. No. It will mean lack of depth of knowledge

- (a) Only argument I is strong
- (b) Only argument II is strong
- (c) Either I or II is strong
- (d) Neither I nor II is strong

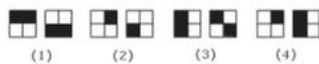
66. Statements: Women's organisations in Germany have welcomed the amendment of the Industrial Employment Rules 1946 to curb sexual harassment at the work place

Conclusions:

- 1. Sexual harassment of women at work place is more prevalent in Germany as compared to other developed countries
- 2. Many organisations in Germany will stop recruiting women to avoid such problems

- (a) Only conclusion I follows
- (b) Only conclusion II follows
- (c) Either I or II follows
- (d) Neither I nor II follows

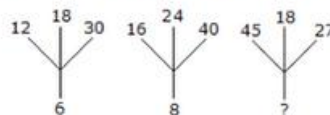
67. Look carefully at the sequence of symbols to find the pattern. Select correct pattern



- (a) 1
- (b) 2
- (c) 3
- (d) 4

68.

Which one will replace the question mark ?



- (a) 18
- (b) 12
- (c) 9
- (d) 6

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Year	Managers		Technicians		Operators		Accountants		Peons	
	New	Left	New	Left	New	Left	New	Left	New	Left
1995	760	-	1200	-	880	-	1160	-	820	-
1996	280	120	272	120	256	104	200	100	184	96
1997	179	92	240	128	240	120	224	104	152	88
1998	148	88	236	96	208	100	248	96	196	80
1999	160	72	256	100	192	112	272	88	224	120
2000	193	96	288	112	248	144	260	92	200	104

The following table shows the number of new employees added to different categories of employees in a company and also the number of employees from these categories who left the company every year since the foundation of the Company in 1995

69. What is the difference between the total number of Technicians added to the Company and the total number of Accountants added to the Company during the years 1996 to 2000?

- (a) 128
- (b) 112
- (c) 96
- (d) 88

70. What was the total number of Peons working in the Company in the year 1999?

- (a) 1312
- (b) 1192
- (c) 1088
- (d) 968

71. For which of the following categories the percentage increase in the number of employees working in the Company from 1995 to 2000 was the maximum?

- (a) Managers
- (b) Technicians
- (c) Operators
- (d) Accountants

72. What is the pooled average of the total number of employees of all categories in the year 1997?

- (a) 1325
- (b) 1195
- (c) 1265
- (d) 1235

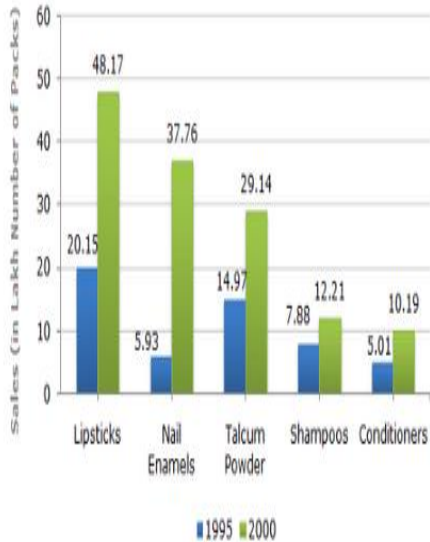
73. During the period between 1995 and 2000, the total number of Operators who left the Company is what percent of total number of Operators who joined the Company?

- (a) 19%
- (b) 21%
- (c) 27%
- (d) 29%

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A cosmetic company provides five different products. The sales of these five products (in lakh number of packs, lakh equals 100 000) during 1995 and 2000 are shown in the following bar graph

Sales (in lakh number of packs) of five different products of Cosmetic Company during 1995 and 2000



74. The sales of lipsticks in 2000 was by what percent more than the sales of nail enamels in 2000? (rounded off to nearest integer)

- (a) 33%
- (b) 31%
- (c) 28%
- (d) 22%

75. During the period 1995-2000, the minimum rate of increase in sales is in the case of?

- (a) Shampoos
- (b) Nail enamels
- (c) Talcum powders
- (d) Lipsticks

76. What is the approximate ratio of the sales of nail enamels in 2000 to the sales of Talcum powders in 1995?

- (a) 7:2
- (b) 5:2
- (c) 4:3
- (d) 2:1

77. The sales have increase by nearly 55% from 1995 to 2000 in the case of?

- (a) Lipsticks
- (b) Nail enamels
- (c) Talcum powders
- (d) Shampoos

78. The sales of conditioners in 1995 was by what percent less than the sales of shampoos in 1995? (rounded off to nearest integer)

- (a) 57%
- (b) 36%
- (c) 29%
- (d) 25%

79. Zachary has invited his three buddies over to watch the basketball game on his wide-screen television. They are all hungry, but no one wants to leave to get food. Just as they are arguing about who should make the food run, a commercial comes on for a local pizzeria that delivers. The phone number flashes on the screen briefly and they all try to remember it. By the time Zachary grabs a pen and paper, each of them recollects a different number

#1: All of the men agree that the first three numbers are 995

#2: Three of them agree that the fourth number is 9

#3: Three agree that the fifth number is 2

#4: Three agree that the sixth number is 6; three others agree that the seventh number is also 6

Which of the numbers is most likely the telephone number of the pizzeria?

- (a) 995-9266

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(b) 995-9336

(c) 995-9268

(d) 995-8266

80. Rita, an accomplished pastry chef who is well known for her artistic and exquisite wedding cakes, opened a bakery one year ago and is surprised that business has been so slow. A consultant she hired to conduct market research has reported that the local population doesn't think of her shop as one they would visit on a daily basis but rather a place they'd visit if they were celebrating a special occasion. Which of the following strategies should Rita employ to increase her daily business?

(a) making coupons available that entitle the coupon holder to receive a 25% discount on wedding, anniversary, or birthday cakes

(b) exhibiting at the next Bridal Expo and having pieces of one of her wedding cakes available for tasting

(c) placing a series of ads in the local newspaper that advertise the wide array of breads

(d) moving the bakery to the other side of town

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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"/>