

Model Test Paper 28  
General Study Paper II

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TEST BOOKLET  
GENERAL STUDIES  
Paper-II

D

Time Allowed : Two Hours

Maximum Marks : 200

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INSTRUCTIONS

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

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| <p>Read the following passage and answer the questions based on it<br/>One of the most serious problems confronting our country is that of a fast-growing population. In fact, it is at the root of many other problems. At the moment, thanks to planning, we are able to produce food and cloth sufficient for our people and even in some excess. But if the population continues to grow at this rate, it will not be long before the surplus turns into a bare minimum and even a deficit. The position in regard to accommodation is even now far from satisfactory in spite of our efforts.</p> <p>1. "it is at the root of many other problems" means that</p> <p>(a) it is found along with many other problems<br/>(b) it is caused by many other problems<br/>(c) it gives rise to many other problems<br/>(d) it is buried under many other problems</p> <p>2. The present satisfactory position in regard to food and cloth is due to</p> <p>(a) the fact that the population has been controlled<br/>(b) our good luck<br/>(c) good rainfall<br/>(d) our economic planning</p> <p>3. If the population of India continues to increase at this rate, the situation in regard to food and cloth</p> <p>(a) is likely to remain the same<br/>(b) is likely to become less satisfactory<br/>(c) is likely to improve<br/>(d) is likely to vary up and down</p> <p>4. The situation in respect of accommodation</p> <p>(a) is less than satisfactory<br/>(b) is quite satisfactory<br/>(d) is the result of total neglect</p> | <p>5. At present Indians have</p> <p>(a) more provision for cloth than accommodation<br/>(b) more provision for accommodation than cloth<br/>(c) abundance of cloth and accommodation<br/>(d) scarcity of cloth and accommodation</p> <p>Read the following passage and answer the questions based on it<br/>The sky was already full of rusting wings. But when Jean stepped into the still lusterless water, he seemed to be swimming in an indeterminate darkness until he saw the streaks of red and gold over the horizon. Then he suddenly swam back to land and clambered up the winding path to his house. After a great deal of panting he reached a little gate, pushed it open and climbed a stairway. The house above the world had its huge bay-windows through which one could see the horizon from one edge to the other. Here, no one complained of exhaustion. Every one had his joy to conquer, every day.</p> <p>6. Which of the following is/are indicated by the description in the passage?</p> <p>1. Time before sunrise<br/>2. Time after sunset<br/>3. Clouds<br/>4. Birds</p> <p>(a) 2 and 3 only<br/>(b) 2 only<br/>(c) 2, 3 and 4 only<br/>(d) 1 and 4 only</p> <p>7. What do the words "great deal of panting" imply?</p> <p>1. Jean was too weak to walk<br/>2. Jean's house was on a hill<br/>3. Jean was too tired to walk after swimming<br/>4. Jean's house was too far away from the shore</p> <p>(a) 1 and 2<br/>(b) 2 only<br/>(c) 2, 3 and 4<br/>(d) 1 and 4</p> |
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| <p>Read the following passage and answer the questions based on it</p> <p>Punctually at midday he opened his bag and spread out his professional equipment, which consisted of a dozen cowrie shells, a square piece of cloth with obscure mystic charts on it, a note book, and a bundle of Palmyra writing. His forehead was resplendent with sacred ash and vermilion, and his eyes sparkled with a sharp abnormal gleam which was really an outcome of a continual searching look for customers, but which his simple clients took to be a prophetic light and felt comforted. The power of his eyes was considerably enhanced by their position placed as they were between the painted forehead and the dark whiskers which streamed down his cheeks : even a half-wit's eyes would sparkle in such a setting. To crown the effect he wound a saffron-coloured turban around his head. This colour scheme never failed. People were attracted to him as bees are attracted to cosmos or dahlia stalks</p> <p>8. From the description of this passage one can make out the person to be a</p> <p>(a) Snake Charmer<br/>(b) Footpath vendor<br/>(c) Astrologer<br/>(d) Priest</p> <p>9. The eyes of the person described sparkled because</p> <p>(a) He was sitting under midday sun<br/>(b) He was always looking for possible clients<br/>(c) His forehead was bright with ash and vermilion<br/>(d) He was full of joy</p> <p>10. The person opened his bag</p> <p>(a) to search for something he needed<br/>(b) to indicate the start of his work<br/>(c) to keep his professional equipment<br/>(d) to take out things for display</p> | <p>11. The tone of the description is</p> <p>(a) sad<br/>(b) neutral<br/>(c) ironic<br/>(d) sympathetic</p> <p>Read the following passage and answer the questions based on it</p> <p>'Punctuality' said Louis XIV. 'is the politeness of kings'. It is the mark of a gentleman, and 'the necessity of men in business'. Washington once took his Secretary to task for being late. The Secretary laid the blame upon his watch. Washington retorted "Then, sir, either you must get a new watch or I must get a new Secretary". Much of our success in life depends upon our being punctual in our undertakings and appointments. hence the necessity of steadily cultivation this virtue in our daily life.</p> <p>12. Washington wanted</p> <p>(a) to get a new watch<br/>(b) to get a new secretary<br/>(c) his secretary to get a new watch<br/>(d) his secretary to be punctual</p> <p>13. Punctuality is a virtue</p> <p>(a) which is appreciated by kings<br/>(b) which is difficult to cultivate<br/>(c) which is necessary for success in life<br/>(d) which can make daily life pleasant</p> <p>Read the following passage and answer the questions based on it</p> <p>Fortunately it is as yet only through fantasy that we can see what the destruction of the scholarly and scientific disciplines would mean to mankind. From history we can learn what their existence has meant. The sheer power of disciplined thought is revealed in practically all the great intellectual and technological advances which the human race has made. The ability of the man of disciplined mind to direct this power effectively upon problems for which he has not specifically trained is proved by examples without number. The real evidence for the value of liberal education lies in history and in the biographies of men who have met the valid criteria of greatness. these support</p> |
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| <p>overwhelmingly the claim of liberal education that it can equip a man with fundamental powers of decision and action, applicable not only to boy-girl relationship, to tinkering hobbies, or to choosing the family dentist, but to all the great and varied concerns of human life ---- not least, those that are unforeseen.</p> <p>14. Liberal education enables a person to</p> <p>(a) read with more discernment than others</p> <p>(b) apply general principles to resolve issues</p> <p>(c) gain prestige</p> <p>(d) develop a clearer understanding of history than others</p> <p>15. In this passage, the author stresses the importance of</p> <p>(a) education for living</p> <p>(b) technological advances</p> <p>(c) increased interest in the study of history</p> <p>(d) satisfying the desire for security</p> <p>16. In this passage, the expression 'specifically trained' refers to</p> <p>(a) characteristically trained</p> <p>(b) particularly trained</p> <p>(c) peculiarly trained</p> <p>(d) ostensibly trained</p> <p>17. According to the author, 'the great and varied concerns of human life' are about</p> <p>(a) fundamental rights</p> <p>(b) challenges facing mankind</p> <p>(c) tinkering hobbies</p> <p>(d) liberal education</p> <p>Read the following passage and answer the questions based on it<br/>Nowadays we are amused by professionals. Why listen to your friends singing when you can hear the great singers of the world on the gramophone</p> | <p>or the radio? Why read even a detective story if you can see one at the cinema, and why play football with players who are not very good when you can go, by train or car, to see some of the best players in your country playing an important match; or, if you have a television set, just sit comfortably at home and watch the same without the trouble of going outside?</p> <p>18. The primary criticism of the author about his contemporaries is that</p> <p>(a) they are unprofessional and unskilled</p> <p>(b) they want to enjoy all the good things of life</p> <p>(c) they waste all their time with amusements</p> <p>(d) they have a lazy and mechanical attitude towards amusements</p> <p>19. The impression you get about the author is that he is</p> <p>(a) a cynic</p> <p>(b) an old timer</p> <p>(c) a reformer</p> <p>(d) a social critic</p> <p>Read the following passage and answer the questions based on it</p> <p>A male jackdaw's courtship behaviour is astonishingly human. All his movements are consciously strained and his proudly reared head and neck are permanently in a state of self-display. He provokes the other jackdaws continually if the female jackdaw is looking on and he purposefully becomes embroiled in conflicts with otherwise deeply respected superiors. Above all, he seeks to impress his loved one with the possession of a potential nesting site, from which he drives all other jackdaws, irrespective of their rank.</p> <p>20. A courtship behaviour may best be described as</p> <p>(a) the behaviour of a jackdaw who shows off his feathers</p> <p>(b) the behaviour of a male bird to attract a female bird</p> <p>(c) the behaviour by which a male bird displays its beauty to the female bird</p> |
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| <p>(d) the behaviour of any male to win a female of the same species</p> <p>21. Which of the phrases best helps to bring out the precise meaning of 'consciously strained'?</p> <p>(a) Proudly reared and exhibited</p> <p>(b) Permanently in a state of display</p> <p>(c) Purposefully put in a state of display</p> <p>(d) Possession of nesting sight</p> <p>22. The most important 'trick' of the jackdaw to win his female is</p> <p>(a) displaying his head and neck</p> <p>(b) to be like a human being</p> <p>(c) to become embroiled with other birds</p> <p>(d) to possess a place for building a nest</p> <p>23. The jackdaw fights with other jackdaws because</p> <p>(a) he does not respect the senior birds</p> <p>(b) he wants to fight with his rivals</p> <p>(c) he does not like to be challenged</p> <p>(d) he wants to show off</p> <p>24. Which of the following statements best describes the central theme of the passage?</p> <p>(a) The courtship behaviour of birds</p> <p>(b) The similarities between the courtship behaviours of birds and man</p> <p>(c) The astonishing facts about the jackdaw's love life</p> <p>(d) The scientific study of the jackdaw's life</p> <p>Read the following passage and answer the questions based on it</p> <p>Young seekers after peace know that only equal trust shown to all the peoples of the earth and not just to a few of them, can lead to the healing of the wounds that tear them apart and so it is essential never to humiliate the members of a</p> | <p>nation whose leaders have committed inhuman acts. Essential also is boundless concern for so many men and women who today, as exiles or immigrants, live on foreign soil. If every home was open to somebody of foreign origin, the racial problem would be partially solved.</p> <p>25. For the reconciliation and unity it is essential</p> <p>(a) to have no discrimination in the trust shown to peoples of the earth</p> <p>(b) to have young seekers after peace</p> <p>(c) to have confidence in at least a few of the peoples</p> <p>(d) to punish the leaders who committed inhuman sins</p> <p>26. To make the members of a nation responsible for the inhuman acts of their leaders is</p> <p>(a) unimportant</p> <p>(b) understandable</p> <p>(c) unjust</p> <p>(d) undesirable</p> <p>27. Boundless concern should be shown to</p> <p>(a) one's own country men alone</p> <p>(b) the people belonging to our friendly nations only</p> <p>(c) the foreigners who just visit our country</p> <p>(d) all the exiles living away from their native lands</p> <p>28. The theme of the passage is</p> <p>(a) Rigid nationalism alone can help peaceful co-existence</p> <p>(b) Trusting all the peoples of the earth may lead to serious problems</p> <p>(c) Being cautious of others is a must to live in peace</p> <p>(d) Concern for everyone irrespective of the race or country</p> |
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Read the following passage and answer the questions based on it

We shall go on to the end; we shall fight in France, we shall fight on the seas and oceans, we shall fight with growing confidence and strength in the air, we shall defend our island whatever the cost may be, we shall fight on the beaches, we shall fight on the landing grounds, we shall fight in the fields and in the streets, we shall fight in the hills. We shall never surrender, and even if this island or a large part of it were subjugated and starving, then our empire beyond the seas would carry on the struggle, until the New World steps forth to the rescue and the liberation of the Old.

29. On the basis of the passage which of the following statements may be said to be correct?

- (a) The speaker is encouraging his men for the conquest of France
- (b) The speaker is aggressive and maniacal war-monger
- (c) The speaker is not satisfied with the conquest of the island
- (d) The speaker is a patriot urging the defence of his mother-land

30. The speaker in the passage wants to go on fighting because

- (a) he is a raving lunatic
- (b) he is in a state of utter despair
- (c) he expects help from other quarters
- (d) he is the leader of a suicide squad

31. Which of the following pairs of the phrases helps best to bring out the intention of the speaker?

- (a) "go on to the end" ; "shall never surrender"
- (b) "growing confidence" ; "subjugated and starving"
- (c) "subjugated and starving" ; "fight on the landing ground"
- (d) "fight in the streets" ; "subjugated and starving"

32. The passage consists of repetitive patterns in syntax and vocabulary. The effect of this style is that it

- (a) reveals the speaker's defects in giving a speech
- (b) produces the impression of bad poetry
- (c) conveys the speaker's helpless situation
- (d) reinforces the speaker's basic intention

Read the following passage and answer the questions based on it?

Cozette could have been a pretty child, but she was thin and pale and her eyes were strained with weeping. She was dressed in her thin torn cotton dress and she shivered all the time. Here and there on her body were blue marks from the beatings that her mistress had given her. Her naked legs were red and rough. When she spoke, her voice trembled. Everything about the child, her looks, her behaviour, her speech, her silence, every small gesture she made, showed a terrible fear. She was so afraid that, even though she was wet through, she dared not go near the fire to warm herself, but sat shivering in a corner of the room.

33. Cozette could not be a pretty child because

- (a) she was pale and emaciated
- (b) she was weeping
- (c) she was scantily dressed
- (d) she was trembling with fear

34. Cozette's voice trembled because

- (a) she was feeling cold
- (b) she was frightened
- (c) there was no fire near her
- (d) she was wearing a thin, cotton dress

35. Cozette's terrible fear is conveyed most vividly by the description of

- (a) her constant shivering
- (b) her tear-strained eyes
- (c) her trembling voice
- (d) her inability to go near the fire

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| <p>36. The cause of Cozette's fear is explained by</p> <ul style="list-style-type: none"><li>(a) her pale appearance</li><li>(b) her torn dress</li><li>(c) the blue marks on her body</li><li>(d) her speech</li></ul> <p>Read the following passage and answer the questions based on it</p> <p>Discussions on drug addiction should also be concerned with the vast majority of people who are not addicts. Their homes and lives are insecure because our narcotics laws drive such people to crime. The drug addict is almost never dangerous when he is under the influence of drugs. What makes him dangerous is the desperate need for money to buy the next dose. Drugs are available only in an illegal black market. The cost are stupendous, and this is what drives the addict to steal, rob and even kill.</p> <p>37. According to the author, discussions of drug addiction are generally concerned with</p> <ul style="list-style-type: none"><li>(a) addicts</li><li>(b) non-addicts</li><li>(c) criminals</li><li>(d) black marketers</li></ul> <p>38. Addicts take to criminal acts because</p> <ul style="list-style-type: none"><li>(a) drugs make them lose self-control</li><li>(b) the habit of robbing and stealing is hard to break</li><li>(c) they need large sums of money to buy drugs</li><li>(d) law is powerless against them</li></ul> <p>39. The author seems to criticize the narcotics laws for</p> <ul style="list-style-type: none"><li>(a) being too lenient</li><li>(b) being too complicated</li><li>(c) being ineffective</li><li>(d) driving addicts to crime</li></ul> | <p>40. The word 'stupendous' in the passage means</p> <ul style="list-style-type: none"><li>(a) very high</li><li>(b) foolish</li><li>(c) shocking</li><li>(d) illegal</li></ul> <p>41. With reference to the passage, consider the following statements</p> <ol style="list-style-type: none"><li>1. Addiction to drugs is a criminal act</li><li>2. Drug addicts cannot be rehabilitated</li></ol> <p>Which of the statements given above is/are correct?</p> <ul style="list-style-type: none"><li>(a) 1 only</li><li>(b) 2 only</li><li>(c) Both 1 and 2</li><li>(d) Neither 1 nor 2</li></ul> <p>42. Geraflex, a new exercise program designed to strengthen muscle in the elderly, is offered year-round, and a typical class contains between five and ten members, most of whom already suffer from age-related muscle loss. Classes are generally larger from April through October; from November through March, class sizes tend to be smaller. The variation in class size can probably be explained by a decrease in mobility among the elderly during the winter months.</p> <p>Which of the following, if true, provides the strongest support for the explanation offered?</p> <ul style="list-style-type: none"><li>(a) From April to October, more Geraflex classes are offered than from November to March.</li><li>(b) Geraflex class sizes vary dramatically in size from year to year.</li><li>(c) Many elderly people travel to warmer climates during the winter months.</li><li>(d) During the winter months in many areas, roads and sidewalks are more dangerous, so the elderly are less likely to leave their homes.</li></ul> |
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| <p>43. The "factor count" of an integer <math>n</math> greater than 1 is the number of distinct prime factors of <math>n</math>. For example, the factor count of 36 is 2, since 2 and 3 are the distinct prime factors of <math>36 = 2 \times 2 \times 3 \times 3</math>. For which of the following integers is the factor count greatest?</p> <p>(a) 60<br/>(b) 61<br/>(c) 62<br/>(d) 63</p> <p>44. If <math>a</math> is to be chosen at random from the integers between 1 to 5, inclusive, and <math>b</math> is to be chosen at random from the integers between 6 and 10, inclusive, what is the probability that <math>a + b</math> will be even?</p> <p>(a) <math>6/25</math><br/>(b) <math>2/5</math><br/>(c) <math>12/25</math><br/>(d) <math>3/5</math></p> <p>45. How many of the 40 securities in a portfolio are domestic stocks?<br/>(1) 28 of the 40 securities are stocks.<br/>(2) 35 of the 40 securities are domestic.</p> <p>(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.<br/>(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.<br/>(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.<br/>(d) Statements (1) and (2) TOGETHER are NOT sufficient.</p> <p>46. Dolphin sightings are common at Nine Mile beach. Usually dolphins avoid human beings, but sometimes they approach marine workers who offer them food. This has boosted the Nine Mile's appeal to tourists, who once congregated at a neighboring beach. In order to further increase the beach's popularity, therefore, marine workers have proposed implementing a permanent dolphin-feeding program.</p> <p>Which of the following, if true, most strongly calls into question the likelihood that implementation</p> | <p>of the marine workers' proposal will have the desired consequence?</p> <p>(a) A permanent dolphin-feeding program would likely raise the number of dolphins visible to tourists on any given day.<br/>(b) Business owners who depend on tourism are willing to pay most of the cost of implementing the program.<br/>(c) Nine Mile beach does not offer the same quality of swimming or surfing as do neighboring beaches, but tourists travel from around the world to scuba dive there.<br/>(d) Tourists are attracted to Nine Mile by the opportunity to see dolphins living in the wild, unlike at a nearby theme park, where the dolphins are fed by park employees.</p> <p>47. Revenues were recorded for Store A and Store B over a period of three months. In the first month, Store A's revenues were \$40,000 higher than Store B's revenues. In the second month, Store A's revenues were \$8,000 higher than Store B's revenues. If Store A's average (arithmetic mean) monthly revenue for the three months was \$2,000 greater than Store B's average monthly revenue, then Store B's revenue in the third month was how much greater than Store A's revenue?</p> <p>(a) \$14,000<br/>(b) \$15,000<br/>(c) \$42,000<br/>(d) \$46,000</p> <p>48. Which of the following lines in the <math>xy</math>-plane does not contain any point with two negative coordinates?</p> <p>(a) <math>y = x</math><br/>(b) <math>y = x + 10</math><br/>(c) <math>y = x^2 - 2</math><br/>(d) <math>y = x^4</math></p> |
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| <p>49. Karl and Nell made donations to the same charity last year. Did Karl donate more money to the charity than Nell did?<br/>(1) The amount of money that Nell donated is \$200 less than twice the amount that Karl donated.<br/>(2) Karl donated more than \$250 to the charity.</p> <p>(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.</p> <p>(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.</p> <p>(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.</p> <p>(d) EACH statement ALONE is sufficient.</p> <p>50. Seafood restaurants in Snare Island generally serve only fish caught in the waters around Snare Island since inhabitants are accustomed to the distinctive taste of Snare fish. Nevertheless, fishermen from Chinua, a nearby island, plan to sell Snare Island residents fish caught in Chinuan waters by selling at a lower price than that of Snare fish and marketing it as a low-fat alternative.</p> <p>Which of the following, if true, casts most doubt on the viability of the plan by Chinua's fishermen to sell their apples in Snare Island?</p> <p>(a) Many of the species of fish caught by Snare Island fishermen and Chinuan fishermen are closely related.</p> <p>(b) Consumers in Snare Island eat fish in restaurants about as often as do consumers in Chinua.</p> <p>(c) At times in the past, Snare Island fishermen have sold much of their catch to buyers in Chinua.</p> <p>(d) Most Snare Island residents are not concerned about their diet and believe that locally-caught fish are low-fat.</p> <p>51. The average (arithmetic mean) of 10 numbers is 3.1. When five numbers are discarded, the average of the remaining numbers becomes 2.85. What is the average of the five discarded numbers?</p> <p>(a) 2.60</p> <p>(b) 3.15</p> <p>(c) 3.35</p> | <p>(d) 4.15</p> <p>52. What is the smallest integer such that <math>1/(2^n) &lt; 0.005</math> ?</p> <p>(a) 8</p> <p>(b) 9</p> <p>(c) 10</p> <p>(d) 11</p> <p>53. A health club charges an annual \$10 renewal fee for all memberships that are not renewed at least 30 days before they would expire. If Eileen renewed her membership 7 days ago, was she charged the renewal fee?</p> <p>(1) If Eileen had renewed her membership 14 days later, she would have paid the renewal fee.</p> <p>(2) If Eileen had renewed her membership 3 days later, she would not have paid the renewal fee.</p> <p>(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.</p> <p>(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.</p> <p>(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.</p> <p>(d) EACH statement ALONE is sufficient.</p> <p>54. As part of a major overhaul of Froland's apple industry, outside produce experts have proposed reducing the size of orchards that grow less popular kinds of apples and then setting up farmstands on the remaining acreage. In that way, orchards owners could sell many more kinds of products while continuing to grow a wide variety of apples.</p> <p>Which of the following, if true, would most strongly support the experts' proposal?</p> <p>(a) Froland's apple orchards are best-known for the less popular kinds of apples that orchards in other regions rarely grow.</p> <p>(b) Most of the visitors to Froland's apple orchards are tourists who would also purchase other regional items such as books and crafts.</p> |
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| <p>(c) Few of Froland's apple orchards are located along major highways where farmstands would attract a large number of passersby.</p> <p>(d) Farmstands are generally low-cost structures that take little time to design and build.</p> <p>55. If <math>p &gt; 3</math> and <math>6x - 2p = 0</math>, which of the following must be true?</p> <p>(a) <math>x &gt; -1</math></p> <p>(b) <math>x &lt; -1</math></p> <p>(c) <math>x &gt; 1</math></p> <p>(d) <math>x &lt; 1</math></p> <p>56. Of Company X's 60 employees who work the early shift, 40 percent are paid more than \$1,000 per week. Of Company X's 40 employees who work the late shift, 60 percent are paid more than \$1,000 per week. For the two shifts combined, what percent of the employees are paid more than \$1,000 per week?</p> <p>(a) 45%</p> <p>(b) 48%</p> <p>(c) 50%</p> <p>(d) 52%</p> <p>57. At a furniture store, each chair sells for the same price and each desk sells for the same price. What is the total price for 2 chairs and 5 desks at the store?</p> <p>(1) At the store the total price for 1 chair and 1 desk is \$160.</p> <p>(2) At the store the total price for 5 chairs and 2 desks is \$440.</p> <p>(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.</p> <p>(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.</p> <p>(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.</p> <p>(d) EACH statement ALONE is sufficient.</p> | <p>58. Advertisement in the Harptown Train Station:</p> <p>The Harptown Transport Society reports that the Silver Bullet train has the fewest delays per rush-hour period of any high-speed train. This shows that the Silver Bullet train is one of the most efficient trains currently in use.</p> <p>Which of the following, if true, most seriously weakens the argument in the advertisement?</p> <p>(a) The Harptown Transport Society report listed many non-high-speed trains in other metropolitan areas that were more frequently delayed than the Silver Bullet train.</p> <p>(b) In recent years more travelers have regularly ridden the Silver Bullet train than any other high-speed train.</p> <p>(c) High-speed trains are more likely to be delayed during rush hour than any other type of train.</p> <p>(d) The difference between the number of delays on the Silver Bullet train and that for other high-speed trains is quite pronounced.</p> <p>59. If <math>9^{x+3} = 3^{4x-1}</math>, then <math>x =</math></p> <p>(a) <math>4/3</math></p> <p>(b) 3</p> <p>(c) <math>7/2</math></p> <p>(d) 7</p> <p>60. If <math>y = x^3</math> and <math>z = x^4</math>, what is the square root of <math>y/xz</math> ?</p> <p>(a) <math>1/x^2</math></p> <p>(b) <math>1/x</math></p> <p>(c) <math>x</math></p> <p>(d) <math>x^2</math></p> <p>61. What is the value of <math>4x + 18</math> ?</p> <p>(1) <math>2x + 9 = 14</math></p> <p>(2) <math>8x + 18 = 38</math></p> <p>(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.</p> <p>(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.</p> |
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| <p>(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.</p> <p>(d) EACH statement ALONE is sufficient.</p> <p>62. Engineers are attempting to make PX-1000 series cars more environmentally friendly by increasing their use of natural gases. One plan to accomplish this is to use organic waste to power cars. When organic waste decomposes, it releases fuel that is much more powerful than crude oil.</p> <p>Which of the following, if true, would indicate the most serious weakness in the plan above?</p> <p>(a) Some parts of the world do not generate enough organic waste to power a significant number of automobiles.</p> <p>(b) All existing mechanisms to operate engines with fuel drawn from decomposed organic waste are too large to fit in automobiles.</p> <p>(c) Even if organic waste proves to be an effective alternative to crude oil, some car owners will be reluctant to buy cars that run on this new fuel.</p> <p>(d) Each year several million tons of organic waste decomposes but is not used to the full extent of its energy potential.</p> <p>63. If <math>x &gt; y &gt; 1</math>, which of the following could be the least common multiple of two positive integers <math>x</math> and <math>y</math> ?</p> <p>(a) <math>x + 1</math></p> <p>(b) <math>y - 1</math></p> <p>(c) <math>x - y</math></p> <p>(d) <math>xy/2</math></p> <p>64. Last year Company X spent 20 percent of its revenue on employee compensation. This year its revenues were 10 percent more than last year and it spent 25 percent of its revenue on employee compensation. The amount spent on employee compensation this year was what percent of the amount spent last year?</p> <p>(a) 105.0%</p> <p>(b) 125.0%</p> <p>(c) 127.5%</p> <p>(d) 137.5%</p> | <p>65. In a certain restaurant, if each soft drink costs the same amount, what is the cost, excluding sales tax, of 1 soft drink?</p> <p>(1) The cost, excluding sales tax, of 5 soft drinks is \$6.25.</p> <p>(2) The cost, including sales tax, of 3 soft drinks is \$4.05.</p> <p>(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.</p> <p>(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.</p> <p>(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.</p> <p>(d) EACH statement ALONE is sufficient.</p> <p>66. Mayor of Alberville: Factories in Alberville together emitted twenty percent less carbon dioxide in 2001 than in 2000. The decline in emissions was probably due almost exclusively to the March 2001 development of floating seaweed farms, the first step toward reducing carbon dioxide emissions that, in addition to being cost-efficient, was also widespread.</p> <p>Scientists: That cannot be the cause. As you yourself clearly stated, carbon dioxide emissions were reduced by twenty percent. Yet seaweed farms can only absorb ten percent of Alberville factories' emissions.</p> <p>Which of the following, if true, would most seriously weaken the force of the objection that the scientists present to the mayor's explanation?</p> <p>(a) The cost of the seaweed farms was covered by a tax increase to industrial firms in Alberville.</p> <p>(b) The number of factories in Alberville was greater in 2001 than in 2000.</p> <p>(c) Seaweed farms had a greater effect on Alberville emissions levels than any other plan undertaken in Alberville.</p> <p>(d) SWhen seaweed plants die, they can be used as a low-emissions fuel source.</p> <p>67. If <math>a</math>, <math>b</math>, <math>c</math>, and <math>d</math> are nonzero numbers and <math>a - b = c - d</math>, which of the following is equal to <math>-1</math> ?</p> <p>(a) <math>(a - c)/(d - b)</math></p> <p>(b) <math>(a - d)/(b - c)</math></p> <p>(c) <math>(b - c)/(d - a)</math></p> <p>(d) <math>(b - d)/(a - c)</math></p> |
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| <p>68. In 2003, a corporation with a market capitalization of \$35.10 billion repurchased corporate stock with a market value of \$17.57 million. Approximately what percent of market capitalization was represented by the stock repurchase? (Note: 1 billion = <math>10^9</math>)</p> <p>(a) 5%</p> <p>(b) 2%</p> <p>(c) 0.5%</p> <p>(d) 0.05%</p> <p>69. What is the thousandths digit of the decimal <math>p</math>?</p> <p>(1) <math>p</math> is equivalent to the fraction <math>\frac{4}{7}</math>.<br/>(2) The units digit of <math>100p</math> is 2.</p> <p>(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.</p> <p>(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.</p> <p>(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.</p> <p>(d) EACH statement ALONE is sufficient.</p> <p>70. Ghostwriting is the practice of obtaining from an independent writer a manuscript that an author or organization publishes under their own name. Dinosaurs, Inc., an amateur archaeological society that has in recent years seen a decline in membership, plans to boost its popularity by hiring a ghostwriter for its newsletter to provide the kind fresh perspective and stylistic innovation that the group is no longer capable of providing itself.</p> <p>Which of the following, if true, most strongly supports the prediction that Dinosaurs' plan will achieve its goal?</p> <p>(a) Among the parts of the newsletter that Dinosaurs, Inc. does not plan to have ghostwritten are some that require knowledge of the society itself that no non-member would be familiar with.</p> <p>(b) The editor of the Dinosaurs, Inc. newsletter ghostwrites newsletter articles for other amateur archaeological society newsletters.</p> <p>(c) Few ghostwriters are both stylistically innovative and able to write accurately about specific archaeological issues.</p> <p>(d) Many former members of Dinosaurs, Inc. cited</p> | <p>the dullness of the newsletter as a reason for their choice to leave the society.</p> <p>71. When <math>a</math> is even <math>]a[ = a/2 + 1</math>. When <math>a</math> is odd, <math>]a[ = 2a + 1</math>. Which of the following is equal to <math>]7[</math> times <math>]4[</math>?</p> <p>(a) <math>]22[</math></p> <p>(b) <math>]44[</math></p> <p>(c) <math>]45[</math></p> <p>(d) <math>]88[</math></p> <p>72. For a finite sequence of nonzero integers, the consecutiveness of the sequences is defined by the number of pairs of consecutive terms of the sequence for which the difference between the two consecutive terms is 1. What is the consecutiveness for the sequence <math>\{1, 4, 5, 6, -3, -4\}</math>?</p> <p>(a) One</p> <p>(b) Two</p> <p>(c) Three</p> <p>(d) Four</p> <p>73. Is the product of integers <math>m</math> and <math>n</math> odd?<br/>(1) <math>m</math> is even<br/>(2) <math>n</math> is odd</p> <p>(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.</p> <p>(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.</p> <p>(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.</p> <p>(d) EACH statement ALONE is sufficient.</p> <p>74. Kingsland companies often outsource data-entry tasks to foreign firms. The results of this outsourcing have been shown to lower costs for Kingsland companies in several different ways, and high costs can potentially bankrupt Kingsland companies. The decision to outsource is rare, except during recessions, when the Kingsland economy is weak. Therefore, Kingsland companies probably outsource their work because doing so helps them avoid bankruptcy.</p> <p>Which of the following would it be most useful to determine in order to evaluate the argument?</p> |
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| <p>(a) Whether outsourcing is the most effective cost-lowering method available to Kingsland firms.</p> <p>(b) Whether the firms to which Kingsland companies outsource data-entry tasks are at risk of bankruptcy during recessions</p> <p>(c) Whether companies in cities other than Kingsland outsource data-entry tasks to foreign firms</p> <p>(d) Whether the only time foreign firms are available for data-entry tasks is when the Kingsland economy is weak</p> <p>75. If <math>j \&amp; k = j^2 - 2jk + k^2</math> for all integers <math>j</math> and <math>k</math>, then <math>4 \&amp; 3 =</math></p> <p>(a) 49</p> <p>(b) 13</p> <p>(c) 1</p> <p>(d) -1</p> <p>76. For a finite sequence of nonzero numbers, the primeness of the sequence is defined the fraction of the terms in the sequence that are prime. What is the primeness of the sequence 1, 2, 4, 7, 11, 16 ?</p> <p>(a) 1/6</p> <p>(b) 1/3</p> <p>(c) 1/2</p> <p>(d) 2/3</p> <p>77. A hotel purchased a number of hand towels and a number of bath towels. If the cost of each hand towel was \$6.00 and the cost of each bath towel was \$11.00, what was the total cost of the hand towels and bath towels purchased by the hotel?</p> <p>(1) The total cost of the hand towels purchased by the hotel was \$84.00.</p> <p>(2) The total number of hand towels and bath towels purchased by the hotel was 32.</p> <p>(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.</p> <p>(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.</p> | <p>(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.</p> <p>(d) EACH statement ALONE is sufficient.</p> <p>78. Which of the following most logically completes the argument below?</p> <p>When malaria rates in a tropical country are high, drug companies reduce the cost of many kinds of anti-parasite medications. The reason is that drug companies want to take in as much money as possible in medication sales so that they can invest the money into research for more profitable drugs. Anti-parasite drug cost reductions are likely to achieve this objective since _____.</p> <p>(a) when prices decrease, more companies enter the market with competing anti-parasite drugs</p> <p>(b) drug companies that spend a smaller percentage of revenues on research are unable to take advantage of anti-parasite drug cost reductions for this reason</p> <p>(c) many more people will purchase anti-parasite medications if the price is lower than if the price remained the same</p> <p>(d) an increase in the number of anti-parasite drugs sold raises the likelihood that some species of parasite will mutate so that the drug is not effective against it</p> <p>79. For all even integers <math>n</math>, <math>h(n)</math> is defined to be the sum of the even integers between 2 and <math>n</math>, inclusive. What is the value of <math>h(18)/h(10)</math> ?</p> <p>(a) 1.8</p> <p>(b) 3</p> <p>(c) 6</p> <p>(d) 18</p> <p>80. If <math>f \&amp; g = f/g + (f - g)/2</math> for all integers <math>f</math> and <math>g</math>, then <math>6 \&amp; (-3) =</math></p> <p>(a) 6.5</p> <p>(b) 2.5</p> <p>(c) -0.5</p> <p>(d) -2.5</p> |
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Answer Sheet

|    | A                     | B                     | C                     | D                     |  | A  | B                     | C                     | D                     |                       | A | B  | C                     | D                     |                       | A                     | B | C  | D                     |                       |                       |                       |
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| 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"/> |