

Model Test Paper 30
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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Read the following passage and answer the following questions based on it

Our Voyage was very prosperous, but I shall not trouble the reader with a journal of it. The captain called in at one or two ports and sent in his long-boat for provisions and fresh water, but I never went out of the ship till we came into the Downs, which was on the 3rd day of June, 1706, about nine months after my escape. I offered to leave my goods in security for payment of my freight, but the captain protested he would not receive one farthing. We took kind leave of each other, and I made him promise that he would come to see me at my house in Redriff. I hired a house and a guide for five shillings which I borrowed from the captain.

1. When the writer uses the word "prosperous" to describe the voyage, he means that

- (a) it made him rich
- (b) it made him healthy
- (c) it was very pleasant
- (d) it was uneventful

2. On the voyage, the author

- (a) left the ship at intervals
- (b) was not able to leave the ship because it did not stop
- (c) never left the ship at all
- (d) never left the ship till they came into the Downs

3. In the context of the passage, the word "provisions" means

- (a) mainly food
- (b) mainly security
- (c) money
- (d) mainly ammunition

4. For the payment of the author's freight, the captain

- (a) kept his goods as security
- (b) refused to accept any money

(c) protested against being paid only a farthing

(d) accepted a sum of money

5. From the passage, it is clear that the captain's attitude to the author was

- (a) one of hostility
- (b) one of indifference
- (c) one of extreme friendliness and kindness
- (d) one of disgust and irritation

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

What were the early ideas of men about the sky and the earth? They naturally believed that the earth was motionless, and they also supposed that it was flat. These two ideas do not surprise us. Children now-a-days think the same until they are taught differently. How were men to know that the earth was a ball circling round the sun? They had no telescope for accurate observation. They had not travelled round the world. In fact, many parts of the world in those days were unexplored and unknown. They thought they lived on a kind of flat plate, and that the sky with the sun and the moon and the stars, was a kind of inverted bowl turning round above them. The sun, the moon and the stars were their lamps for day and night.

6. Unless children are taught differently they think that

- (a) the earth is round and moving
- (b) the sun and the moon are motionless
- (c) the sun and the moon are moving
- (d) the sun and the moon are moving round the earth

7. The early ideas of man were wrong because

- (a) man did not use the telescope
- (b) man did not like to travel
- (c) man never had the scientific knowledge
- (d) man was foolish and lazy

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<p>8. What was true for the early man?</p> <p>(a) The earth was round and moving</p> <p>(b) The telescope was accurate</p> <p>(c) Travelling and exploring were the methods to gain knowledge</p> <p>(d) The sun was motionless</p> <p>9. What was the main cause of the early man's wrong ideas?</p> <p>(a) Lack of scientific knowledge</p> <p>(b) Seeing and believing</p> <p>(c) Lack of desire to know</p> <p>(d) Lack of desire to observe and explore</p> <p>Read the following passage and answer the following questions based on it</p> <p>The man sat up in the snow for a moment and struggled for calmness. Then he pulled on his gloves by means of his teeth, and got upon his feet. He glanced down at first in order to assure himself that he was really standing up, for the absence of sensation in his feet left him unrelated to the earth. His erect position in itself started to drive the webs of suspicion from the dog's mind; and when he spoke preemptorily, with the sound of whip-lashes in his voice, the dog rendered its customary allegiance and came to him. As it came within reaching distance, the man lost his control. His arms flashed out to the dog and he experienced genuine surprise when he discovered that his hands could not clutch, that there was neither bend nor feeling in the fingers. He had forgotten for the moment that they were frozen and that they were freezing more and more. All this happened quickly and before the animal could get away, he encircled its body with his arms. He sat down in the snow and in this fashion held the dog, while it snarled and whined and struggled.</p> <p>10. From the passage, which group of words expresses the effect of snow upon the man's feet</p> <p>(a) With the sound of whip-lashed in his voice</p> <p>(b) His arms, flashed out to the dog</p> <p>(c) The absence of sensation in his feet left him unrelated to the earth</p> <p>(d) The man sat up in the snow for a moment and struggled for calmness</p>	<p>11. The statement that the man experienced genuine surprise when he discovered that his hands could not clutch means that</p> <p>(a) The man did not see anything to clutch</p> <p>(b) The man had nothing to clutch</p> <p>(c) The man was afraid of the dog</p> <p>(d) There was neither bend nor feeling in the fingers</p> <p>12. Which word or group of words shows the exact condition of being 'frozen'?</p> <p>(a) Whip-lashes in his voice</p> <p>(b) He pulled on his gloves</p> <p>(c) His hands could not clutch</p> <p>(d) Lost his control</p> <p>Read the following passage and answer the following questions based on it</p> <p>George was a young man who had gone to the big city from a small rural community and, in a relatively short time, attained prominence in the business world. His sudden rise had gone into his head, however, and he became unbearably conceited.</p> <p>Eventually, George returned home after a visit, halfway expecting everyone in town to be at the railway station to welcome him.</p> <p>Much to his surprise, George saw that no one, not even his family, was around to meet him when he descended from the train. He looked very neat in a new suit and carried a bulky suitcase full of fashionable clothes.</p> <p>After a little while, the station master came from his office and went over to the young fellow. "Well, hello there, George", he called out cheerily, "Are you going away?"</p> <p>13. The station master's question implied that</p> <p>(a) he offered help to George in climbing the train</p> <p>(b) he is known to George very intimately</p> <p>(c) he is making fun of George</p> <p>(d) George's absence from the town was not noticed by him</p>
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<p>14. George hoped for a big welcome because</p> <p>(a) of his achievement and success</p> <p>(b) he is returning home after a very long time</p> <p>(c) people loved him</p> <p>(d) his community wanted dynamic leaders like him</p> <p>15. George's great expectations are an indication of his</p> <p>(a) humility</p> <p>(b) optimism</p> <p>(c) pride</p> <p>(d) love of his community</p> <p>16. George's success was most clearly visible in</p> <p>(a) the station master's words</p> <p>(b) his clothes</p> <p>(c) his being unbearably conceited</p> <p>(d) the manner in which he was received by the village</p> <p>Read the following passage and answer the questions based on it</p> <p>The assault on the purity of the environment is the price that we pay for many of the benefits of modern technology. For the advantages of automotive transportation we pay a price in smog-induced diseases; for the powerful effects of new insecticides, we pay a price in dwindling wildlife and disturbances in the relation of living things and their surroundings; for nuclear power, we risk the biological hazards of radiation. By increasing agricultural production with fertilizers, we increase water pollution.</p> <p>The highly developed nations of the world are not only the immediate beneficiaries of the good that technology can do, they are also the first victims of the environmental diseases that technology breeds. In the past, the environmental effects which accompanied technological progress were restricted to a small place and relatively a short time. The new hazards are neither local nor brief. Modern air pollution covers vast areas of continents. Radioactive fallout from nuclear</p>	<p>explosions is worldwide. Radioactive pollutants now on the Earth's surface will be found there for generations, and in the case of Carbon-14, for thousands of years.</p> <p>17. The passage emphasizes that modern technology</p> <p>(a) is totally avoidable</p> <p>(b) has caused serious hazards to life</p> <p>(c) has greater effect on developed countries</p> <p>(d) is the source of the miseries of mankind</p> <p>18. The harmful effects of modern technology are</p> <p>(a) widespread but short lived</p> <p>(b) widespread and long lasting</p> <p>(c) local and long lasting</p> <p>(d) severe but short lived</p> <p>19. With reference to the passage, the following assumptions have been made</p> <p>1. The widespread use of insecticides has caused ecological imbalance</p> <p>2. Conservation of natural flora and fauna is impossible in this age of modern technology</p> <p>Which of the assumptions is/are valid?</p> <p>(a) 1 only</p> <p>(b) 2 only</p> <p>(c) Both 1 and 2</p> <p>(d) Neither 1 nor 2</p> <p>Read the following passage and answer the following questions based on it</p> <p>To what extent, though, are modern farming methods sustainable? There is abundant evidence that a high price has to be paid to sustain the high rates of food production achieved by farmed monocultures. For example, they offer ideal conditions for the epidemic spread of diseases such as mastitis, brucellosis and swine fever among livestock and coccidiosis among poultry. Farmed animals are normally kept at densities far higher than their species would meet in nature with the result that disease transmission rates are magnified. In addition, high rates of transmission</p>
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<p>between herds occur as animals are sold from one farming enterprise to another, and it is easy for the farmers themselves, with mud on their boots and their vehicles, to act as vectors of pests and disease.</p> <p>20. With reference to the passage, consider the following statements</p> <p>1. The modern practices of farming are undesirable for developing countries 2. Monoculture practices should be given up to eliminate disease transmission in animals</p> <p>Which of the above statements is/are correct?</p> <p>(a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2</p> <p>21. What is the essence of this passage?</p> <p>(a) Farming is a very costly affair (b) Farmed animals are kept at higher densities in monocultures (c) There is a widespread transmission of animal diseases now-a-days (d) Human dependence on monoculture is fragile</p> <p>Read the following passage and answer the following questions based on it</p> <p>"Sit down", the Principal said, but Mr. Tagde continued to stand, gaining courage from his own straight-backed stance, because he was beginning to feel a little afraid now. The Principal looked unhappy. He disliked being forced to perform this sort of an unpleasant task. "I wish you would consider withdrawing this report", he said. "I am sorry. Sir, I cannot do that" Mr. Tagde said. he was pleased with his unwavering voice and uncompromising words. "It will be a very damaging report if put on record". "It is a factual report on very damaging conduct". "You are asking for the boy's expulsion from school. Don't you think the punishment is too harsh for a few boyish prnks"?</p> <p>22. Mr. Tagde did not sit down because</p> <p>(a) he was angry with the Principal</p>	<p>(b) he was in a defiant mood (c) he did not like the student (d) he was in a hurry</p> <p>23. He would not withdraw the report because</p> <p>(a) he was arrogant and bitter (b) it was an accurate report (c) he wanted to create problems for the principal (d) he wanted to show his authority</p> <p>24. The Principal was unhappy because he</p> <p>(a) he did not like to deal with an arrogant person (b) was angry with Mr. Tagde (c) could not enforce discipline in school (d) did not want to expel the boy</p> <p>Read the following passage and answer the following questions based on it</p> <p>It was a bitterly cold night, and even at the far end of the bus the east wind that raved along the street cut like a knife. The bus stopped, the two women and a man got in together and filled the vacant places. The younger woman was dressed in sealskin and carried one of those Pekinese dogs that women in sealskin like to carry in their laps. The conductor came near and took the fares. Then his eye rested with cold malice on the beady-eyed toy dog. I saw trouble brewing. This was the opportunity for which he had been waiting, and he intended to make the most of it.</p> <p>25. The wind that blew on the night was</p> <p>(a) mild (b) pleasant (c) bitter (d) sharp</p> <p>26. The younger woman was carrying the dog as</p> <p>(a) a necessity (b) a fashion</p>
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<p>(c) an expression of provocation (d) an escort</p> <p>27. Which of the following statements best describes the nature of the conductor?</p> <p>(a) He was dutiful (b) He was a law-abiding person (c) he liked dogs (d) He was unfriendly and malicious</p> <p>28. "It was a bitterly cold night, and even at the far end of the bus the east wind that raved along the street cut like a knife". This sentence gives us an idea of</p> <p>(a) a lonely night bus journey (b) an unbearable cold night (c) the wind at the time that was still and cold (d) the hardship of author's journey</p> <p>Read the following passage and answer the following questions based on it</p> <p>Before an armed robber locked Mary Graves in the sweltering trunk of her car, she dialed an emergency number on her portable telephone and slipped it to her three-year old daughter. Though confused, the little girl saved the day. She told emergency operators that her mother was locked in the trunk. Although she didn't know where she was, she provided some important clues : she could see airplanes and the sky, according to the transcript of the emergency phone call. The operator called Tampa international airport police, who searched the top floor of the airport parking garage where the car was parked. The operator told the girl to honk, enabling the police to locate the car and free Mrs. Graves</p> <p>29. The clues provided by the little girl suggest that the car was parked</p> <p>(a) outside but adjacent to the airport (b) by the main street of the city (c) at the airport (d) in a parking garage in the side-lane</p>	<p>30. The passage indicates that the girl was</p> <p>(a) clever and brave (b) had the maturity of an adult (c) coy and shy (d) worried and excited</p> <p>31. The girl helped the police trace the car by</p> <p>(a) shouting loudly (b) making too much din (c) shrieking frightfully (d) sounding the horn</p> <p>32. Through the passage, the writer suggests the importance and utility of</p> <p>(a) education of little children (b) parking garages (c) portable telephones (d) airports</p> <p>Read the following passage and answer the following questions based on it</p> <p>For days I trudged from one property-dealer to another, from one "to-let" notice to another, with the estimated advance money tucked safely in the inner lining of my handbag, but in vain. At one place they needed a couple, at another a young man, and at another they wished to know my employment status. And I realized that I was a freak called the single woman and the job status being nothing more than a freelance writer with hardly any assignments in hand, only dreams of making it some day. So the dream-house remained far away, gradually turning into a fantasy.</p> <p>33. The author "trudged" from one property-dealer to another" means that the author</p> <p>(a) had to walk a lot of distance (b) had to do a brisk walk to save the time (c) visited several property-dealers without any success (d) acquired a good knowledge about the property-dealers of that area</p>
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<p>34. According to the passage, the author was</p> <p>(a) a novelist</p> <p>(b) an independent writer</p> <p>(c) a publisher of journals</p> <p>(d) an unemployed person</p> <p>35. Which of the following statements best reflects the underlying tone of the passage?</p> <p>(a) People always let out their houses to well employed persons only</p> <p>(b) People always let out their houses only to couples</p> <p>(c) Single jobless women find it difficult to rent a house</p> <p>(d) Women always dream of a house</p> <p>Read the following passage and answer the following questions based on it</p> <p>Martin had many little tricks entertaining to his son. On an evening, returning from the market, he would buy a paper mask, the head of a hissing dragon. He would put it on and knock at the door. On opening the door, the boy would be terrified for a moment, but only for a moment, for he would soon remove it and the two would roll with laughter. Tom would, then, go out with the mask and knock at the door for his father to open. Martin had to act as if he was paralysed with fear.</p> <p>36. Martin played his little tricks because</p> <p>(a) he was very much interested in them</p> <p>(b) he wanted to terrify his son</p> <p>(c) his son got pleasure from them</p> <p>(d) it was his habit to make tricks</p> <p>37. Which of the following statements is the most appropriate description of the mask?</p> <p>(a) It is a mask looking like a dragon with long tail and covering the whole body of Martin</p> <p>(b) It is a mask looking like the head of a dragon with its tongue hanging out</p> <p>(c) It is a mask looking like an animal with horns, wings and a pair of ferocious eyes emitting fire</p>	<p>(d) It is a mask looking like the head of a king cobra</p> <p>38. The father and son rolled with laughter after the</p> <p>(a) father put on the mask</p> <p>(b) opening of the door</p> <p>(c) son saw the mask</p> <p>(d) father removed the mask</p> <p>39. A boat can travel with a speed of 13 km / hr in still water. If the speed of the stream is 4 km / hr. find the time taken by the boat to go 68 km downstream?</p> <p>(a) 2 hours</p> <p>(b) 3 hours</p> <p>(c) 4 hours</p> <p>(d) 5 hours</p> <p>40. A boat covers a certain distance downstream in 1 hour, while it comes back in 1½ hours. If the speed of the stream be 3 kmph. what is the speed of the boat in still water?</p> <p>(a) 12kmph</p> <p>(b) 13kmph</p> <p>(c) 15kmph</p> <p>(d) 16kmph</p> <p>41. What is the number of odd days in a leap year?</p> <p>(a) 1</p> <p>(b) 2</p> <p>(c) 3</p> <p>(d) 4</p> <p>42. An accurate clock shows 8 o'clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 2 o'clock in the afternoon?</p> <p>(a) 144°</p> <p>(b) 150°</p>
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(c) 160° (d) 180° 43. A clock is set at 5 a.m. The clock loses 16 minutes in 24 hours. What will be the true time when the clock indicates 10 p.m. on 4th day?	(c) Rs. 1750 (d) Rs. 2000 48. A ladder leaning against a wall makes an angle of 60° with the ground. If the length of the ladder is 19 m, find the distance of the foot of the ladder from the wall.
(a) 9 p.m (b) 10 p.m (c) 11 p.m (d) 12 p.m 44. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through	(a) 9 m (b) 9.5 m (c) 10.5 m (d) 12 m 49. The angle of elevation of the sun, when the length of the shadow of a tree is $\sqrt{3}$ times the height of the tree is
(a) 145° (b) 150° (c) 155° (d) 160° 45. How many times in a day, are the hands of a clock in straight line but opposite in direction?	(a) 30° (b) 45° (c) 60° (d) 90° 50. 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:
(a) 20 (b) 22 (c) 24 (d) 48 46. Find compound interest on Rs. 7500 at 4% per annum for 2 years, compounded annually.	(a) 149 m (b) 156 m (c) 173 m (d) 200 m 51. Find the odd man out : 74, 24, 82, 61, 10, 4
(a) Rs.512 (b) Rs.552 (c) Rs.612 (d) Rs.622 47. Simple interest on a certain sum of money for 3 years at 8% per annum is half the compound interest on Rs. 4000 for 2 years at 10% per annum. The sum placed on simple interest is	(a) 61 (b) 24 (c) 10 (d) 82 52. Find the odd man out : 1, 3, 7, 11, 15, 18, 21
(a) Rs. 1550 (b) Rs. 1650	

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(a) 3 (b) 7 (c) 18 (d) 21 53. Find out the wrong number in the sequence 1, 2, 5, 14, 41, 124	57. Insert the missing number 121, 112, ..., 97, 91, 86 (a) 102 (b) 108 (c) 99 (d) 104
(a) 2 (b) 14 (c) 124 (d) 41 54. Find out the wrong number in the sequence 1, 2, 6, 24, 120, 620	58. Insert the missing number 2, 9, 28, 65, ... (a) 126 (b) 195 (c) 121 (d) 103
(a) 2 (b) 620 (c) 120 (d) 24 55. Find out the wrong number in the series 125, 106, 88, 76, 65, 58, 53	59. Reena and Shaloo are partners in a business. Reena invests Rs. 35,000 for 8 months and shaloo invests Rs.42,000 for 10 months. Out of a profit of Rs.31,570. Reena's share is (a) Rs.9471 (b) Rs. 12,628 (c) Rs.18,040 (d) Rs.18,942
(a) 125 (b) 106 (c) 88 (d) 76 56. Find out the wrong number in the series 5, 15, 30, 135, 405, 1215, 3645	60. Aman started a business investing Rs. 70,000. Rakhi joined him after six months with an amount of Rs.. 1,05,000 and Sagar joined them with Rs. 1.4 lakhs after another six months. The amount of profit earned should be distributed in what ratio among Aman, Rakhi and Sagar respectively, 3 years after Aman started the business? (a) 7 : 6 : 10 (b) 12 : 15 : 16 (c) 42 : 45 : 56 (d) cannot be determined
(a) 3645 (b) 1215 (c) 405 (d) 30	61. A shopkeeper give 12% additional discount on the discounted price, after giving an initial discount of 20% on the labelled price of a radio. If the final sale price of the radio is Rs.704, then what is its labelled price?

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<p>(a) Rs. 844.80 (b) Rs. 929.28 (c) Rs. 1000 (d) Rs. 1044.80</p> <p>62. Peter purchased a machine for Rs. 80,000 and spent Rs.5000 on repair and Rs.1000 on transport and sold it with 25% profit. At what price did he sell the machine?</p> <p>(a) Rs. 1,05,100 (b) Rs. 1,06,250 (c) Rs. 1,07,500 (d) Rs. 1,17,500</p> <p>63. Present ages of Sameer and Anand are in the ratio of 5 : 4 respectively. Three years hence, the ratio of their ages will become 11 : 9 respectively. What is Anand's present age in years ?</p> <p>(a) 24 (b) 27 (c) 40 (d) cannot be determined</p> <p>64. My brother is 3 years elder to me. My father was 28 years of age when my sister was born while my mother was 26 years of age when I was born. If my sister was 4 years of age when my brother was born, then, what was the age of my father and mother respectively when my brother was born ?</p> <p>(a) 32 yrs, 23 yrs (b) 32 yrs, 29 yrs (c) 35 yrs, 29 yrs (d) 35 yrs, 33 yrs</p> <p>65. In how many different ways can the letters of the word 'JUDGE' be arranged in such a way that the vowels always come together?</p> <p>(a) 48 (b) 120 (c) 124 (d) 160</p>	<p>66. How many 4-letter words with or without meaning, can be formed out of the letters of the word, 'LOGARITHMS', if repetition of letters is not allowed?</p> <p>(a) 40 (b) 400 (c) 5040 (d) 2520</p> <p>67. The sum of two numbers is 22. Five times one number is equal to 6 times the other. The bigger of the two numbers is</p> <p>(a) 10 (b) 12 (c) 15 (d) 16</p> <p>68. Three times the first of three consecutive odd integers is 3 more than twice the third. The third integer is</p> <p>(a) 9 (b) 11 (c) 13 (d) 15</p> <p>69. A train 100 m long is running at the speed of 30 km/hr. Find the time taken by it to pass a man standing near the railway line.</p> <p>(a) 10 sec. (b) 12 sec. (c) 14 sec. (d) 16 sec.</p> <p>70. A man sitting in a train which is travelling at 50 kmph observes that a goods train, travelling in opposite direction, takes 9 seconds to pass him. If the goods train is 280 m long, find its speed.</p> <p>(a) 52 kmph. (b) 62 kmph.</p>
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<p>(c) 72 kmph. (d) 80 kmph.</p> <p>71. In an election between two candidates, one got 55% of the total valid votes, 20% of the votes were invalid. If the total number of votes was 7500, the number of valid votes that the other candidate got, was</p> <p>(a) 2500 (b) 2700 (c) 3000 (d) 3100</p> <p>72. Two pipes can fill a tank in 20 and 24 minutes respectively and a waste pipe can empty 3 gallons per minute. All the three pipes working together can fill the tank in 15 minutes. The capacity of the tank is</p> <p>(a) 60 gallons (b) 80 gallons (c) 120 gallons (d) 160 gallons</p> <p>73. A leak in the bottom of a tank can empty the full tank in 8 hours. An inlet pipe fills water at the rate of 6 litres a minute. When the tank is full, the inlet is opened and due to the leak, the tank is empty in 12 hours. How many litres does the cistern hold ?</p> <p>(a) 7580 (b) 7960 (c) 8290 (d) 8640</p> <p>74. Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5?</p> <p>(a) $\frac{1}{2}$ (b) $\frac{2}{5}$ (c) $\frac{8}{15}$ (d) $\frac{9}{20}$</p>	<p>75. A box contains 20 electric bulbs, out of which 4 are defective. Two bulbs are chosen at random from this box. The probability that at least one of these is defective</p> <p>(a) $\frac{4}{19}$ (b) $\frac{7}{19}$ (c) $\frac{12}{19}$ (d) $\frac{21}{95}$</p> <p>76. 50 men took a dip in water tank 40 m long and 20 m broad on a religious day. If the average displacements of water by a man is 4 m³, then the rise in the water level in the tank will be</p> <p>(a) 20 cm (b) 25 cm (c) 35 cm (d) 50 cm</p> <p>77. A man invested Rs. 14,400 in Rs.100 shares of a company at 20% premium. If the company declares 5% dividend at the end of the year, then how much does he get?</p> <p>(a) Rs. 500 (b) Rs. 600 (c) Rs. 650 (d) Rs. 720</p> <p>78. An express train travelled at an average speed of 100 km/hr, stopping for 3 minutes after every 75 km. How long did it take to reach its destination 600 km from the starting point?</p> <p>(a) 6 hrs 21 min (b) 6 hrs 24 min (c) 6 hrs 27 min (d) 6 hrs 30 min</p>
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79. Sound is said to travel in air at about 1100 feet per second. A man hears the axe striking the tree, $11/5$ seconds after he sees it strike the tree. How far is the man from the wood chopper?

- (a) 2197 ft
- (b) 2420 ft
- (c) 2500 ft
- (d) 2629 ft

80. A man can do a piece of work in 5 days, but with the help of his son, he can do it in 3 days. In what time can the son do it alone?

- (a) $6\frac{1}{2}$ days
- (b) 7 days
- (c) $7\frac{1}{2}$ days
- (d) 8 days

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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"/>
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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"/>