

Detailed solution
Model Test 41 (GS paper II)

1. (d) was an important milestone in the film industry Because the paragraph tells that “the addition of sound to film revolutionized the medium, quickly driving out silent movies”.
2. (b) the transition to color films was not as rapid as the transition to sound films Because the paragraph tells that “color was adopted more gradually. The public was relatively indifferent to color photography as opposed to black-and-white”.
3. (c) the arrival of sound films ended the popularity of silent movies Because the paragraph tells that “the addition of sound to film revolutionized the medium, quickly driving out silent movies”.
4. (d) generally think of poetry as extremely important or totally useless Because the paragraph tells that “People seldom feel neutral about poetry”.
5. (d) often captures real human feelings Because the paragraph tells that “Poetry can be the voice of our feelings”.
6. (d) few people think that poetry is neutral Because the paragraph tells that “People seldom feel neutral about poetry”.
7. (d) biological reasons have a strong influence on how we act Because the paragraph tells that “Those who support the nature side of the conflict believe that our personalities and behavior patterns are largely determined by biological and genetic factors”.
8. (b) the correct explanation of human behavior will probably take ideas from both theories Because the paragraph tells that “it is quite likely that the key to our behavior lies somewhere between these two extremes”.
9. (d) a person's character is greatly influenced by his environment Because the paragraph tells that “Proponents of the nurture theory claim that our environment is more important than our biologically based instinct in determining how we will act”.
10. (d) will shorten the duration of the flu Because the paragraph tells that “but being able to tell if the cause is a cold or flu may make a difference in how long the flu lasts”.
11. (c) one should take the necessary medications upon catching the disease Because the paragraph tells that “the prescription drugs available for the flu need to be taken soon after the illness sets in”.

12. (d) over-the-counter drugs can be taken to ease the misery caused by a cold or the flu Because the paragraph tells that “that's because the prescription drugs available for the flu need to be taken soon after the illness sets in although the symptoms can be eased with over the counter medications. As for colds, the sooner a person starts taking over-the-counter remedy, the sooner relief will come”.

13. (b) should achieve a balance between pushing them too hard and leaving them on their own Because the paragraph tells that “it is often tempting to hurry the child beyond his natural learning rate, which can set up dangerous feelings of failure and states of worry in the child” and “On the other hand, though, if a child is left alone too much, or without any learning opportunities, he loses his natural enthusiasm for life and his desire to find out new things for himself”.

14. (d) parental restrictions vary, and are not always enforced for the benefit of the children alone Because the paragraph tells that “In general, the controls imposed represent the needs of the parents and the values of the community as much as the child's own benefit”.

15. (b) is universal among parents Because the paragraph tells that “In bringing up children, every parent, regardless of ethnicity, income, education, or geographic location, watches eagerly the child's acquisition of each new skill”.

16. (a) to test whether smoking has a positive effect on the mental capacity of smokers Because the paragraph tells that “decided to find out whether, as many smokers say, smoking helps them to think and concentrate”.

17. (c) the other subjects were not better than nonsmokers in the simplest test Because the paragraph tells that “In this simple test, smokers, deprived smokers and non smokers performed equally well”.

18. (b) put the subjects through increasingly complex tests Because the paragraph tells that “He put non-smokers, active smokers and smokers deprived of cigarettes through a series of tests “ and “As the tests became more complex, non-smokers performed better than smokers by wider and wider margins”.

19. (d) report a phenomenon and outline its probable future Because the paragraph tells that “both regional developments are highly significant in that they will foster integration in the two largest and richest markets of the world, as well as provoke questions about the future direction of the world trading system”.

20. (b) an increase in interaction between national governments and international regulatory institutions Because the paragraph tells that “not by governments or

international institutions, but by the interaction between governments and global corporations”.

21. (d) Their influence on world economics will continue to increase Because the paragraph tells that “but by the interaction between governments and global corporations, especially in the United States, Europe, and Japan” and “as well as provoke questions about the future direction of the world trading system”.

22. (d) help to ensure the continued economic viability of the world community Because the paragraph tells that “both regional developments are highly significant in that they will foster integration in the two largest and richest markets of the world, as well as provoke questions about the future direction of the world trading system”.

23. (a) There were restrictions on commerce between the member nations Because the paragraph tells that ““Europe 1992, the move by the European Community (EC) to dismantle impediments to the free flow of goods, services, capital, and labor among member states by the end of 1992”.

24. (c) provide contrasting examples of a trend that is influencing the world economy Because the paragraph tells that “Nonetheless, although markedly different in origin and nature, both regional developments are highly significant in that they will foster integration in the two largest and richest markets of the world”.

25. (b) An assertion is made and opposing evidence presented Because the paragraph tells that “As the economic role of multinational, global corporations expands, the international economic environment will be shaped increasingly not by governments or international institutions, but by the interaction between governments and global corporations” and then gives two opposing evidences of US-Canada FTA and the EU 1992.

26. (c) describing how pain signals are conveyed in the body and discussing ways in which the pain signals can be blocked Because the paragraph tells that “pain signals—and pain relief—are delivered through a highly complex interacting circuitry” and further discusses how the pain signals can be blocked.

27. (d) A flood of prostaglandins sensitizes nerve endings at the site of the injury Because the paragraph tells that “When a cell is injured, a rush of prostaglandins sensitizes nerve endings at the injury”.

28. (b) After taking ibuprofen, a person with a headache gets quick relief Because the paragraph tells that “Endorphins—the brain’s own morphine—are a class of small peptides that help to block pain signals within the brain itself”.

29. (b) Some substance P is likely to be produced, so some pain signals will reach the brain Because the paragraph tells that “The drugs’ effectiveness against pain is proportional to their success in blocking this enzyme at the site of injury” and “When electrical impulses get to the spinal cord, a pain-signaling chemical known as substance P is released there”.

30. (c) change in people’s understanding of the past due to more recent historical writing Because the paragraph tells that “history is continually being made and experienced before it is studied, interpreted, and read. These latter activities have their own history”

31. (c) Jim Crow laws were passed to erase the social gains that Black people had achieved since Reconstruction Because the paragraph tells that “Jim Crow laws of the late nineteenth and early twentieth centuries not only codified traditional practice but also were a determined effort to erase the considerable progress made by Black people during and after Reconstruction in the 1870’s”.

32. (a) A history of an auto manufacturing plant written by an employee during an auto-buying boom Because the paragraph tells that “That was a bit like hearing Thomas Paine apologize for the timing of his pamphlet Common Sense, which had a comparable impact. Although Common Sense also had a mass readership, Paine had intended to reach and inspire: he was not a historian, and thus not concerned with accuracy or the dangers of historical anachronism”.

33. (d) Both were able to set aside worries about historical anachronism in order to reach and inspire Because the paragraph tells that “Woodward confessed with ironic modesty that the first edition “had begun to suffer under some of the handicaps that might be expected in a history of the American Revolution published in 1776.” That was a bit like hearing Thomas Paine apologize for the timing of his pamphlet Common Sense”.

34. (a) respectful regard Because the paragraph concludes that “Yet, like Paine,

Woodward had an unerring sense of the revolutionary moment, and of how historical evidence could undermine the

mythological tradition that was crushing the dreams of new social possibilities”.

35. (d) Jim Crow laws did much more than merely reinforce a tradition of segregation Because the paragraph tells that “He argued that the Jim Crow laws of the late

nineteenth and early twentieth centuries not only codified

traditional practice but also were a determined effort to erase the considerable progress made by Black people

during and after Reconstruction in the 1870's".

36. The word 'APPLE' contains 5 letters, 1A, 2P, 1L and 1E.

Required number of ways = $5! / (1!) (2!) (1!) (1!)$

$$\Leftrightarrow 60.$$

37. C.P = Rs. 3000.

S.P = $\text{Rs}[3600 \times 100 / 100 + (10 \times 2)]$

$$= 3000$$

So, Gain is 0 %.

38. 1 man's 1 day's work = $1/100$.

10 men + 15 women)'s 1 day's work = $1/6$

15 women's 1 day's work, = $(1/6 - 10/100)$

$$= (1/6 - 1/10)$$

$$= 1/15.$$

1 woman's 1 day's work = $1/225$.

1 woman alone can complete the work in 225 days.

39. Speed on return trip = 150% of 40 = 60 kmph.

Average speed = $(2 \times 40 \times 60 / 40 + 60)$ km/hr

$$= (4800 / 100) \text{ km/hr}$$

$$= 48 \text{ km/hr.}$$

40.

For an income of Rs. 756, investment = Rs. 9000.

For an income of Rs. 21/2 , investments

For a Rs. 100 stock, investment = Rs. 125.

Market value of Rs.100 stock = Rs.(125 - 1/4)

41. Number of blocks = $(160 \times 100 \times 60 / 20 \times 20 \times 20)$
= 120.

42. A's 1 day's work = x

B's 1 day's work = y

Then, $x+y = 1/30$ and $16x+44y = 1$.

Solving these two equations, we get $x=1/10$ and $y=1/60$

Therefore B's 1 day's work= $1/60$.

43. Answer : B.

There is a gap of four letters between the first and second, the second and third letters of each term, and also between the last letter of a term and the first letter of the next term.

44. Answer : B.

The first letter moves one step backward. The second letter moves one step forward. The third letter moves one step backward.

45. Answer : D.

The man's uncle and the uncle of girls uncle is the same person.

So he may be the father or uncle of the girl.

46. Answer : D.

According to the data there are two female members D and C of the club and data is not sufficient regarding B and F.

= Rs.
(9000/756
x 21/2)
= Rs.
125.

47. Mathias is tallest
48. A branch is the only thing on the list which is not human made.
49.

Plastic sheets: Everyone
Not made of canvas: Peter and John
No zippers: Stuart, Michael and John
John is the only one who fulfills all criteria.

50.

Seating arrangements:
Hugh - Dan - William - Jack - June - Flora

51.

To answer this question we have to add up the expected sales of each marketing method (for easier calculation we have removed the last two zeros of each number):

$$720+1,845+630+405+900 = 4,500.$$

20% of 4,500 is 900, adding two zeros this is 90,000.

Therefore Radio Campaign is the correct answer.

52.

This exercise is solved by finding the month that experienced the highest increase in traffic. This month must be December. To find the increase we find the traffic in November and subtract it from the traffic in December:

November: 700

December: 750

$$\text{Increase: } 750 - 700 = 50,000$$

53.

First find the total number of Americans by finding 100%. 100% is four times as much as 25%:

$$1,500,000 \times 4 = 6,000,000$$

Now divide this number by five in order to get the number of residents in France:

$$6,000,000 / 5 = 1,200,000$$

11% of 1,200,000:

$$120,000 + 12,000 = 132,000$$

54. The correct answer is A.

The remaining four people are John, Fiona, Ian and Georgia. We need to find the answer choice that does not violate any of the conditions regarding those four. Since we have no information about Georgia's place, we should start with one of the other three.

Ian is one of the first four fans in line, while Kilgore is one of the last three. According to the fourth condition, Ian and Kilgore must be standing immediately in front of or behind one another. Therefore Kilgore must be the first out of the last three (which makes him 5th overall), and Ian must be the last out of the first four (which makes him 4th):

first

last

			I	K		
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The only option which follows this requirement is answer choice A.

55. The correct answer is D.

We are told that Winona works only with Thomas. Winona works twice a week, Thomas works three times a week (every other day). Two of those days will be Winona's as well.

Winona can work any day other than Monday and Friday:

	Mon	Tue	Wed	Thu	Fri	Sat
T/S						
U/V/W		W		W		W

If Thomas worked on Monday, Wednesday and Friday, that would leave just one day for Winona to work with him (Wednesday), which would violate the condition above. Therefore we can exclude this option, and deduce that Thomas must be working on Tuesday, Thursday and Saturday. Already we can mark answer choice D as the correct answer, as Thomas is indeed not working on Wednesday.

56. The correct answer is C.

If the salad does not contain honeydew, it must contain papaya (fourth condition), which can only occur if it contains kiwi (first condition).

In addition, the salad must contain either mango or nectarine (third condition). Let's check both options:

If the salad contains mango, then the last fruit must be guava, since fig can only be selected if nectarine is selected (second condition). This results in a salad which contains P, K, M and G. This is **one** optional combination.

If the salad contains nectarine, the last fruit can be either guava or fig, which means we have **two** additional optional combinations: P, K, N and G or P, K, N and F.

All in all, there are **three** possible combinations

57. The best answer is D.

For the proposed curriculum change to attract students to classes, computers must have direct relevance in order to succeed in the job market. Choice E provides evidence that this is so, and thus is the best answer.

58. The best answer is C.

Given that the incidence rate for myopia is the same for people of all ages, and that the average age of the population will increase, it follows that the average age of people suffering from myopia will increase.

59. The best answer is C.

Choice C presents an advantage to the hothouse tomatoes - it can be sold to certain customers who are prepared to pay very high prices for it. This supports the projection that the facility will be profitable.

60. The best answer is C.

If electrifying crops kills beneficial insects along with the pests, it may do as much or more harm than good.

Answer choice B is disqualified in the presence of answer choice C. Although B suggests that the use of electricity it is not a perfect solution, it could still have a positive affect for farmers.

61. The best answer is D.

If partners who are considering dissolution have been found to express hostility by adopting a different management style from that of their partners, then the different management styles are the result and not the cause of the discordance between the partners.

62.

The correct answer is A

First Rule: The door moves to the right, centre, left then centre, always in line with the window immediately above it, and then the pattern repeats.

Second Rule: First only upper storey windows are leaded, then only the lower storey windows are leaded, then all windows are leaded. This pattern then repeats.

63. The correct answer is D.

First Rule: The number of circles that are grouped together increases by one every time, with the final group containing all the circles that do not fit into a whole group.

Second Rule: One circle is removed every time.

64.

Step 1 – Calculate how many grams of carbohydrates can be found in a single Cassava root by multiplying the number of grams of carbohydrates by 3.5 (350 grams)

$$38 \times 3.5 = 133 \text{ grams}$$

Step 2 – Calculate the total number of grams of carbohydrates by multiplying the number of grams of carbohydrates in a cassava root (133) by the number of roots (250).

$$133 \times 250 = 33,250 \text{ grams}$$

Step 3 – calculate the total number of calories by multiplying the total number of grams (33,250) by the number of calories per gram (4).

$$33,250 \times 4 = 133,000 \text{ calories}$$

Thus the correct answer is (B) 133,000 calories

65.

Step 1 – Calculate the daily interest payments by identifying 0.95% of the total loan amount (£200).

$$£200 \times 0.0095 = £1.90$$

Step 2 – Calculate the number of days it would take for the interest to equal the initial loan amount by dividing the initial loan amount (£200) by the daily interest payment (£1.90).

$$£200 / £1.90 = 105.2631579 = 105 \text{ days}$$

Thus the correct answer is (D) 105 days

66.

Step 1 – Calculate the fee charged on the first £5 by identifying 10% (0.1) of £5.

$$£5.00 \times 0.1 = £0.50$$

Step 2 – Calculate the fee charged on the second £5 by identifying 7.5% (0.075) of £5.

$$£5 \times 0.075 = £0.375 = £0.38$$

Step 3 – Calculate the fee charged on the remaining amount by identifying 5% (0.05) of £20 (£30 – 10).

$$£20 \times 0.05 = £1.00$$

Step 4 – Calculate the total fee charged by combining the three figures above.

$$£0.50 + £0.38 + £1.00 = £1.88$$

Thus the correct answer is (D) £1.88

67.

Step 1 – Calculate the dividend payment on the first year by multiplying the value of the shares (£3,500) by the dividend yield (3.56%).

$$£3,500 \times 0.0356 = £124.60$$

Step 2 – Calculate the second dividend payment by multiplying the new value of the shares (£3,500 + 124.6) by the dividend yield (3.56%).

$$\begin{aligned} £3,500 + £124.60 &= £3,624.60 \\ £3,624.60 \times 0.0356 &= 129.03576 = £129.04 \end{aligned}$$

Step 3 – Calculate the third dividend payment by multiplying the new values of the shares (£3,624.60 + £129.04) by the dividend yield (3.56%).

$$\begin{aligned} £3,624.60 + £129.04 &= £3,753.64 \\ £3,753.64 \times 0.0356 &= £133.629584 = £133.63 \end{aligned}$$

Step 4 – Calculate the total dividend income received by combining the figures across all three years.

$$£124.60 + £129.04 + £133.63 = £387.27$$

Thus, the correct answer is (D) 387.27

68.

Step 1 – *Because we are told that more than one virus is often present, and the figures given are only for when rhinovirus is the main cause (and not a minor cause), we do not have enough information to answer the question.*

Thus the correct answer is (D) Cannot say.

69.

Add 4 on every other step and subtract 8 on every other step.

70.

The first digit of the number is added to it self every time you move one to the right AND one up/down.

71.

To get the number on the second row, subtract 27 from the number above.

72.

Be careful not to count the student in question twice. If he is 13th from the right, there are 12 students to the right of him. If he is 8th from the left, there are 7 students to the left of him.

Total other students $12 + 7 = 19$

Total students: $19 + 1 = 20$.

73.

Past Farther: 80 inches

Past Brian: 70 inches

Past Peter: 65 inches

Present Peter: 68 inches

74.

The correct answer is B

First Rule: The shape in the centre comprises 1 fewer straight line every time.

Second Rule: The shape in the top left alternates between being a triangle and being a square.

75.

The correct answer is D

First Rule: Each step, the shaded square moves 3 squares clockwise round the edge of the figure.

Second Rule: Each step, the cross-hatching moves 1 square anticlockwise round the edge of the figure, disappearing behind the shading when the two coincide.

76. (b) gave the Duke the required shock Because the paragraph tells that "it was found that the shock had completely cured him".

77. (a) an incurable illness Because the paragraph tells that "who for many years had been suffering from an illness which seemed to be Incurable".

78. (b) the Duke's revenge Because the paragraph tells that how the Duke took the revenge on the jester for the manner in which the jester gave him sudden fright.

79. (c) to take revenge on the jester Because the paragraph tells that "he was angry with Gonella for playing this trick on him, and planned to give jester a fright in return".

80. (d) the jester died from shock Because the paragraph tells that "When the executioner lifted him up it was found that he was dead, from shock".