

Model Test Paper 14  
General Study Paper II

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TEST BOOKLET  
GENERAL STUDIES  
Paper-II

B

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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**Model Test Paper 14**  
**General Study Paper II**

In the eighteenth century, Japan's feudal overlords, from the shogun to the humblest samurai, found themselves under financial stress. In part, this stress can be attributed to the overlords' failure to adjust to a rapidly expanding economy, but the stress was also due to factors beyond the overlords' control. Concentration of the samurai in castle-towns had acted as a stimulus to trade. Commercial efficiency, in turn, had put temptations in the way of buyers. Since most samurai had been reduced to idleness by years of peace, encouraged to engage in scholarship and martial exercises or to perform administrative tasks that took little time, it is not surprising that their tastes and habits grew expensive. Overlords' income, despite the increase in rice production among their tenant farmers, failed to keep pace with their expenses. Although shortfalls in overlords' income resulted almost as much from laxity among their tax collectors (the nearly inevitable outcome of hereditary office-holding) as from their higher standards of living, a misfortune like a fire or flood, bringing an increase in expenses or a drop in revenue, could put a domain in debt to the city rice-brokers who handled its finances. Once in debt, neither the individual samurai nor the shogun himself found it easy to recover. It was difficult for individual samurai overlords to increase their income because the amount of rice that farmers could be made to pay in taxes was not unlimited, and since the income of Japan's central government consisted in part of taxes collected by the shogun from his huge domain, the government too was constrained. Therefore, the Tokugawa shoguns began to look to other sources for revenue. Cash profits from government-owned mines were already on the decline because the most easily worked deposits of silver and gold had been exhausted, although debasement of the coinage had compensated for the loss. Opening up new farmland was a possibility, but most of what was suitable had already been exploited and further reclamation was technically unfeasible. Direct taxation of the samurai themselves would be

politically dangerous. This left the shoguns only commerce as a potential source of government income.

Most of the country's wealth, or so it seemed, was finding its way into the hands of city merchants. It appeared reasonable that they should contribute part of that revenue to ease the shogun's burden of financing the state. A means of obtaining such revenue was soon found by levying forced loans, known as goyo-kin; although these were not taxes in the strict sense, since they were irregular in timing and arbitrary in amount, they were high in yield. Unfortunately, they pushed up prices. Thus, regrettably, the Tokugawa shoguns' search for solvency for the government made it increasingly difficult for individual Japanese who lived on fixed stipends to make ends meet.

1. The passage is most probably an excerpt from

- (a) an economic history of Japan
- (b) the memoirs of a samurai warrior
- (c) a modern novel about eighteenth-century Japan
- (d) an essay contrasting Japanese feudalism with its Western counterpart

2. Which of the following financial situations is most analogous to the financial situation in which Japan's Tokugawa shoguns found themselves in the eighteenth century?

- (a) A small business borrows heavily to invest in new equipment, but is able to pay off its debt early when it is awarded a lucrative government contract.
- (b) Fire destroys a small business, but insurance covers the cost of rebuilding.

**Model Test Paper 14**  
**General Study Paper II**

<p>(c) A small business is turned down for a loan at a local bank because the owners have no credit history.</p> <p>(d) A small business has to struggle to meet operating expenses when its profits decrease.</p> <p>3. Which of the following best describes the attitude of the author toward the samurai</p> <p>(a) Warmly approving</p> <p>(b) Mildly sympathetic</p> <p>(c) Bitterly disappointed</p> <p>(d) Harshly disdainful</p> <p>4. According to the passage, the major reason for the financial problems experienced by Japan's feudal overlords in the eighteenth century was that</p> <p>(a) spending had outdistanced income</p> <p>(b) trade had fallen off</p> <p>(c) profits from mining had declined</p> <p>(d) the coinage had been sharply debased</p> <p>5. The passage implies that individual samurai did not find it easy to recover from debt for which of the following reasons?</p> <p>(a) Agricultural production had increased.</p> <p>(b) Taxes were irregular in timing and arbitrary in amount.</p> <p>(c) There was a limit to the amount in taxes that farmers could be made to pay.</p>	<p>(d) The domains of samurai overlords were becoming smaller and poorer as government revenues increased.</p> <p>6. The passage suggests that, in eighteenth-century Japan, the office of tax collector</p> <p>(a) was a source of personal profit to the officeholder</p> <p>(b) was regarded with derision by many Japanese</p> <p>(c) remained within families</p> <p>(d) existed only in castle-towns</p> <p>7. Which of the following could best be substituted for the word "This" in the last line of the first paragraph without changing the meaning of the passage?</p> <p>(a) The search of Japan's Tokugawa shoguns for solvency</p> <p>(b) The importance of commerce in feudal Japan</p> <p>(c) The unfairness of the tax structure in eighteenth century Japan</p> <p>(d) The difficulty of increasing government income by other means</p> <p>8. The passage implies that which of the following was the primary reason why the Tokugawa shoguns turned to city merchants for help in financing the state?</p> <p>(a) A series of costly wars had depleted the national treasury.</p> <p>(b) Most of the country's wealth appeared to be in city merchants' hands.</p>
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**Model Test Paper 14**  
**General Study Paper II**

(c) Japan had suffered a series of economic reversals due to natural disasters such as floods.

(d) The merchants were already heavily indebted to the shoguns.

9. According to the passage, the actions of the Tokugawa shoguns in their search for solvency for the government were regrettable because those actions

(a) raised the cost of living by pushing up prices

(b) resulted in the exhaustion of the most easily worked deposits of silver and gold

(c) were far lower in yield than had originally been anticipated

(d) did not succeed in reducing government spending

Between the eighth and eleventh centuries A. D., the Byzantine Empire staged an almost unparalleled economic and cultural revival, a recovery that is all the more striking because it followed a long period of severe internal decline. By the early eighth century, the empire had lost roughly two-thirds of the territory it had possessed in the year 600, and its remaining area was being raided by Arabs and Bulgarians, who at times threatened to take Constantinople and extinguish the empire altogether. The wealth of the state and its subjects was greatly diminished, and artistic and literary production had virtually ceased. By the early eleventh century, however, the empire had regained almost half of its lost possessions, its new frontiers were secure, and its influence extended far beyond its borders. The economy had recovered, the treasury was full, and art and scholarship had advanced.

To consider the Byzantine military, cultural, and economic advances as differentiated aspects of a single phenomenon is reasonable. After all, these

three forms of progress have gone together in a number of states and civilizations. Rome under Augustus and fifth-century Athens provide the most obvious examples in antiquity. Moreover, an examination of the apparent sequential connections among military, economic, and cultural forms of progress might help explain the dynamics of historical change.

The common explanation of these apparent connections in the case of Byzantium would run like this: when the empire had turned back enemy raids on its own territory and had begun to raid and conquer enemy territory, Byzantine resources naturally expanded and more money became available to patronize art and literature. Therefore, Byzantine military achievements led to economic advances, which in turn led to cultural revival. No doubt this hypothetical pattern did apply at times during the course of the recovery. Yet it is not clear that military advances invariably came first, economic advances second, and intellectual advances third. In the 860's the Byzantine Empire began to recover from Arab incursions so that by 872 the military balance with the Abbasid Caliphate had been permanently altered in the empire's favor. The beginning of the empire's economic revival, however, can be placed between 810 and 830. Finally, the Byzantine revival of learning appears to have begun even earlier. A number of notable scholars and writers appeared by 788 and, by the last decade of the eighth century, a cultural revival was in full bloom, a revival that lasted until the fall of Constantinople in 1453. Thus the commonly expected order of military revival followed by economic and then by cultural recovery was reversed in Byzantium. In fact, the revival of Byzantine learning may itself have influenced the subsequent economic and military expansion.

**Model Test Paper 14**  
**General Study Paper II**

<p>10. Which of the following best states the central idea of the passage?</p> <p>(a) The Byzantine Empire was a unique case in which the usual order of military and economic revival preceding cultural revival was reversed.</p> <p>(b) The economic, cultural, and military revival in the Byzantine Empire between the eighth and eleventh centuries was similar in its order to the sequence of revivals in Augustan Rome and fifth century Athens.</p> <p>(c) The revival of the Byzantine Empire between the eighth and eleventh centuries shows cultural rebirth preceding economic and military revival, the reverse of the commonly accepted order of progress.</p> <p>(d) The eighth-century revival of Byzantine learning is an inexplicable phenomenon, and its economic and military precursors have yet to be discovered.</p> <p>11. The primary purpose of the second paragraph is which of the following?</p> <p>(a) To establish the uniqueness of the Byzantine revival</p> <p>(b) To show that Augustan Rome and fifth-century Athens are examples of cultural, economic, and military expansion against which all subsequent cases must be measured</p> <p>(c) To suggest that cultural, economic, and military advances have tended to be closely interrelated in different societies</p> <p>(d) To argue that, while the revivals of Augustan Rome and fifth-century Athens were similar, they are unrelated to other historical examples</p>	<p>12. It can be inferred from the passage that by the eleventh century the Byzantine military forces</p> <p>(a) had reached their peak and begun to decline</p> <p>(b) had eliminated the Bulgarian army</p> <p>(c) were comparable in size to the army of Rome under Augustus</p> <p>(d) were strong enough to withstand the Abbasid Caliphate's military forces</p> <p>13. It can be inferred from the passage that the Byzantine Empire sustained significant territorial losses</p> <p>(a) in 600</p> <p>(b) during the seventh century</p> <p>(c) a century after the cultural achievements of the Byzantine Empire had been lost</p> <p>(d) soon after the revival of Byzantine learning</p> <p>14. In the third paragraph, the author most probably provides an explanation of the apparent connections among economic, military, and cultural development in order to</p> <p>(a) suggest that the process of revival in Byzantium accords with this model</p> <p>(b) set up an order of events that is then shown to be not generally applicable to the case of Byzantium</p> <p>(c) cast aspersions on traditional historical scholarship about Byzantium</p> <p>(d) suggest that Byzantium represents a case for which no historical precedent exists</p>
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**Model Test Paper 14**  
**General Study Paper II**

<p>15. Which of the following does the author mention as crucial evidence concerning the manner in which the Byzantine revival began?</p> <p>(a) The Byzantine military revival of the 860's led to economic and cultural advances.</p> <p>(b) The Byzantine cultural revival lasted until 1453.</p> <p>(c) The Byzantine economic recovery began in the 900's.</p> <p>(d) The revival of Byzantine learning began toward the end of the eighth century.</p> <p>16. According to the author, "The common explanation" of connections between economic, military, and cultural development is</p> <p>(a) revolutionary and too new to have been applied to the history of the Byzantine Empire</p> <p>(b) reasonable, but an antiquated theory of the nature of progress</p> <p>(c) not applicable to the Byzantine revival as a whole, but does perhaps accurately describe limited periods during the revival</p> <p>(d) equally applicable to the Byzantine case as a whole and to the history of military, economic, and cultural advances in ancient Greece and Rome</p> <p>17. Look at this series: 14, 28, 20, 40, 32, 64, . . . What number should come next?</p> <p>(a) 52</p> <p>(b) 56</p> <p>(c) 96</p> <p>(d) 128</p>	<p>18. Look at this series: 1.5, 2.3, 3.1, 3.9, . . . What number should come next?</p> <p>(a) 4.2</p> <p>(b) 4.4</p> <p>(c) 4.7</p> <p>(d) 5.1</p> <p>19. Look at this series: 5.2, 4.8, 4.4, 4, . . . What number should come next?</p> <p>(a) 3</p> <p>(b) 3.3</p> <p>(c) 3.5</p> <p>(d) 3.6</p> <p>20. Look at this series: 2, 1, 1/2, 1/4, ..... What number should come next?</p> <p>(a) 1/3</p> <p>(b) 1/8</p> <p>(c) 2/8</p> <p>(d) 1/16</p> <p>21. Which word does NOT belong with the others?</p> <p>(a) eel</p> <p>(b) lobster</p> <p>(c) crab</p> <p>(d) shrimp</p>
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**Model Test Paper 14**  
**General Study Paper II**

<p>22. Which word does NOT belong with the others?</p> <p>(a) scythe</p> <p>(b) knife</p> <p>(c) pliers</p> <p>(d) saw</p> <p>23. Which word does NOT belong with the others?</p> <p>(a) two</p> <p>(b) three</p> <p>(c) six</p> <p>(d) eight</p> <p>24. Which word does NOT belong with the others?</p> <p>(a) peninsula</p> <p>(b) island</p> <p>(c) bay</p> <p>(d) cape</p> <p>25. Which word does NOT belong with the others?</p> <p>(a) seat</p> <p>(b) rung</p> <p>(c) cushion</p> <p>(d) leg</p>	<p>26. Apartments in the Riverdale Manor cost less than apartments in The Gaslight Commons. Apartments in the Livingston Gate cost more than apartments in the The Gaslight Commons. Of the three apartment buildings, the Livingston Gate costs the most. If the first two statements are true, the third statement is</p> <p>(a) true</p> <p>(b) false</p> <p>(c) uncertain</p> <p>(d)</p> <p>27. The Kingston Mall has more stores than the Galleria. The Four Corners Mall has fewer stores than the Galleria. The Kingston Mall has more stores than the Four Corners Mall. If the first two statements are true, the third statement is</p> <p>(a) true</p> <p>(b) false</p> <p>(c) uncertain</p> <p>(d)</p> <p>28. Mara runs faster than Gail. Lily runs faster than Mara. Gail runs faster than Lily. If the first two statements are true, the third statement is</p> <p>(a) true</p> <p>(b) false</p>
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**Model Test Paper 14**  
**General Study Paper II**

(c) uncertain

(d)

Some of the following logic questions ask you to determine the direction of a particular place in relation to other places. For these problems, instead of making a chart or grid, draw a very simple map and label North, South, East, and West to help you see where the places are located in relation to each other.

29. Oat cereal has more fiber than corn cereal but less fiber than bran cereal.

Corn cereal has more fiber than rice cereal but less fiber than wheat cereal.

Of the three kinds of cereal, rice cereal has the least amount of fiber.

If the first two statements are true, the third statement is

(a) true

(b) false

(c) uncertain

(d)

30. On the day the Barton triplets are born, Jenna weighs more than Jason.

Jason weighs less than Jasmine.

Of the three babies, Jasmine weighs the most.

If the first two statements are true, the third statement is

(a) true

(b) false

(c) uncertain

(d)

31. Which of the following statements must be true whenever  $n$ ,  $a$ ,  $b$ , and  $c$  are positive integers such that  $n < a$ ,  $c > a$ , and  $b > c$ ?

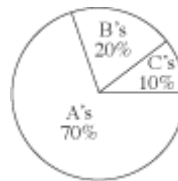
(a)  $a < n$

(b)  $b - n > a - n$

(c)  $b < n$

(d)  $n + b = a + c$

32. The distribution of Jamal's high school grades by percentage of course credits is given in the circle graph below. What is Jamal's grade point average if each A is worth 4 points; each B, 3 points; and each C, 2 points?



(a) 3.0

(b) 3.4

(c) 3.6

(d) 3.7

33. Which of the following equations represents the linear relationship between time,  $t$ , and velocity,  $v$ , shown in the table below?

$t$	0	1	2
$v$	120	152	184

(a)  $v = 32t$



**Model Test Paper 14**  
**General Study Paper II**

(b)  $v = 32t + 120$

(c)  $v = 120t$

(d)  $v = 120t + 32$

34. An industrial cleaner is manufactured using only the 3 secret ingredients A, B, and C, which are mixed in the ratio of 2:3:5, respectively, by weight. How many pounds of secret ingredient B are in a 42-pound (net weight) bucket of this cleaner?

(a) 4.2

(b) 12.6

(c) 14.0

(d) 18.0

35. If  $n = 8$  and  $16 \cdot 2m = 4n - 8$ , then  $m = ?$

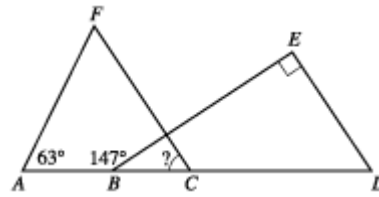
(a) -4

(b) -2

(c) 0

(d) 1

36. In the figure below, A, B, C, and D are collinear, FC is parallel to ED, BE is perpendicular to ED, and the measures of  $\angle FAB$  and  $\angle EBA$  are as marked. What is the measure of  $\angle FCB$  ?



(a)  $33^\circ$

(b)  $57^\circ$

(c)  $63^\circ$

(d)  $84^\circ$

37. Which of the following is an equation of the circle with its center at (0,0) that passes through (3,4) in the standard (x,y) coordinate plane?

(a)  $x - y = 1$

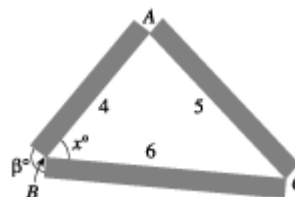
(b)  $x + y = 25$

(c)  $x^2 + y = 25$

(d)  $x^2 + y^2 = 25$

Use the following information to answer questions 38–40.

Taher has decided to create a triangular flower bed border. He plans to use 3 pieces of rectangular lumber with lengths 4, 5, and 6 feet, as shown in the figure below. Points A, B, and C are located at the corners of the flower bed.

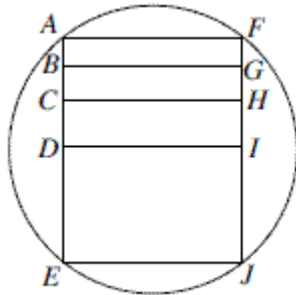


**Model Test Paper 14**  
**General Study Paper II**

<p>38. Taher plans to cut the 3 pieces of lumber for the flower bed border from a single piece of lumber. Each cut takes inch of wood off the length of the piece of lumber. Among the following lengths, in inches, of pieces of lumber, which is the shortest piece that he can use to cut the pieces for the flower bed border?</p> <p>(a) 178</p> <p>(b) 179</p> <p>(c) 180</p> <p>(d) 181</p> <p>39. The measure of <math>\angle ABC</math> in the figure is <math>x^\circ</math>. Which of the following is an expression for <math>\angle A</math> ?</p> <p>(a) <math>x^\circ</math></p> <p>(b) <math>2x^\circ</math></p> <p>(c) <math>(90 + x)^\circ</math></p> <p>(d) <math>(180 - x)^\circ</math></p> <p>40. After arranging the flower bed, Taher decides that the flower bed would look more attractive if 1 of the angles in the triangle were a right angle. He decides to place the right angle at vertex A and to leave the lengths of AB and AC as 4 and 5 feet, respectively. To the nearest 0.1 foot, how long of a piece of lumber would he need to replace the 6-foot piece represented by BC ?</p> <p>(a) 3.0</p> <p>(b) 3.3</p> <p>(c) 6.0</p> <p>(d) 6.4</p>	<p>41. The diagonal of square II is equal to the perimeter of square I. The area of square II is how many times the area of square I?</p> <p>(a) 2</p> <p>(b) 4</p> <p>(c) 8</p> <p>(d) 12</p> <p>42. Tony drove 8 miles west, 6 miles north, 3 miles east, and 6 more miles north. How far was Tony from his starting place?</p> <p>(a) 13</p> <p>(b) 17</p> <p>(c) 19</p> <p>(d) 21</p> <p>43. By how many degrees does the angle formed by the hour hand and the minute hand of a clock increase from 1:27 to 1:28?</p> <p>(a) 3.5 degrees.</p> <p>(b) 4.5 degrees.</p> <p>(c) 5.5 degrees.</p> <p>(d) 6.5 degrees.</p>
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Model Test Paper 14  
General Study Paper II

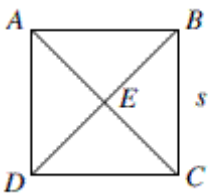
44.



In the figure above, EF, not shown, is a diagonal of rectangle AFJE and a diameter of the circle. D is the midpoint of AE, C is the midpoint of AD, and B is the midpoint of AC. If AE is 8 and the radius of the circle is 5, what is the area of rectangle BGHC?

- (a) 4
- (b) 6
- (c) 8
- (d) 12

45.



In the figure above, square ABCD has been divided into four triangles by its diagonals. If the perimeter of each triangle is 1, what is the perimeter of the square?

(a)  $4/3$

(b) 2

(c) 3

(d)  $\frac{4}{\sqrt{2}+1}$

A new government body is about to publish a number of scenarios hypothesising how our climate might change by the year 2100. The information provided will be used to help decide how to start adapting our society to changes resulting from global warming which will be particularly important when considering large infrastructure projects with a long lifespan. Whilst all agree that there is some degree of global warming, some scientists argue that we are overemphasising this long-term approach and should instead be focussing on shorter range natural variability which is not well understood and often difficult to predict. They claim that there is no way of knowing how accurate these long range hypotheses will be, and also question how useful the hypotheses will be for predicting the climate for the next 10 years. All existing long-term predictions suggest that within fifty years our summer will be drier and heat waves will be the norm, but what, if anything, does that tell us about the next two or three years? How do we reconcile long and short-term predictions?

46. Over the next 50 years the summer each year will be hotter and drier

(a) True

(b) False

(c) Cannot say

(d)

**Model Test Paper 14**  
**General Study Paper II**

<p>47. Some scientists do not agree that global warming is happening</p> <p>(a) True</p> <p>(b) False</p> <p>(c) Cannot say</p> <p>(d)</p> <p>48. Government scientists are not able to accurately forecast what the weather will do between now and the year 2100</p> <p>(a) True</p> <p>(b) False</p> <p>(c) Cannot say</p> <p>(d)</p> <p>Predicting earthquakes using observable phenomena like phases of the moon, cloud formations, weather conditions or animal behaviour is a controversial and, some would say, impossible task. There is little or no verifiable evidence to link any of these phenomena to predictions of actual seismic activity. Early detection, as a means of advance warning, is far more reliable than future prediction and can be done by measuring primary waves (referred to as P-Waves). These non-destructive waves travel faster through the earth's crust than the harmful and destructive secondary waves and so can provide a valuable, albeit short, advance warning. This effect of different speed waves can be likened to the relationship between light and sound; we see lightning before we hear the thunder. Some people believe that animals can detect P-Waves and that this is what causes them to start behaving strangely. Other theories advanced to explain their</p>	<p>behaviour are that that the animals are reacting to changes in low-frequency electromagnetic signals caused by the fracturing of crystalline rock in the fault lines.</p> <p>49. If animals can detect primary waves, they could be used to predict earthquakes</p> <p>(a) True</p> <p>(b) False</p> <p>(c) Cannot say</p> <p>(d)</p> <p>50. Primary waves travel at the speed of sound</p> <p>(a) True</p> <p>(b) False</p> <p>(c) Cannot say</p> <p>(d)</p> <p>51. P-Waves, and the low-frequency electromagnetic signals some believe animals can sense, are not the same thing</p> <p>(a) True</p> <p>(b) False</p> <p>(c) Cannot say</p> <p>(d)</p>
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**Model Test Paper 14**  
**General Study Paper II**

Scientists have been able to successfully genetically modify plants, animals and micro-organisms for a number of years. They do this by manipulating genes to produce genetic changes (which could in theory occur naturally). Supporters of genetic modification claim that the benefits, such as being able to produce crops that are resistant to disease, will help alleviate world food shortages. Many environmentalists believe that the accidental release of genetically modified organisms into the environment is genetic pollution and they fear that the uncontrolled interbreeding of modified organisms with those occurring naturally will contaminate the environment in unforeseen and possibly dangerous ways. They point out that experiments done by researchers to reassure the public about the safety of GM crops have been carried out under scientifically controlled conditions which are far removed from the actual working conditions of food producers.

52. Experiments that produced results showing the safety of GM crops did not yield scientifically valid results

- (a) True
- (b) False
- (c) Cannot say
- (d)

53. Genetic change in plants is not always evidence of the intervention of genetic scientists

- (a) True
- (b) False
- (c) Cannot say
- (d)

54. Some supporters of genetic modification believe that unless we expand our use of GM crops, increased global food shortages are inevitable

- (a) True
- (b) False
- (c) Cannot say
- (d)

	Size			
	250 ml	300 ml	400 ml	500 ml
Brand A	£2.19			
Brand A			£3.26	
Brand B	£2.11			
Brand B			£3.16	
Brand C	£2.43			
Brand C			£2.97	
Brand D	£2.34			
Brand D				£4.49
Brand E		£2.12		

*Prices of five brands of shampoo in a national supermarket.*

**Model Test Paper 14**  
**General Study Paper II**

55. Which size of which brand gives the best value in terms of quantity per cost?

- (a) 400 ml of Brand B
- (b) 400ml of Brand C
- (c) 500ml of Brand D
- (d) 300ml of Brand E

56. A customer needs to buy at least 500 ml of each brand. What is the minimum amount they will need to spend at this supermarket?

- (a) GBP 25.07
- (b) GBP 23.89
- (c) GBP 22.19
- (d) GBP 18.12

57. The supermarket increases the cost of Brand E by 19%. How many 300ml bottles of Brand E could then be bought with GBP 20?

- (a) 9
- (b) 8
- (c) 7
- (d) 6

	1980	1990	2000
Africa	650	600	550
Asia	311	275	239
The Americas	923	839	756
World total	1884	1714	1545

*Area of Rainforests in millions of hectares in three continents and worldwide over the twenty year period 1980 to 2000.*

58. By what percentage did the area of rainforests in The Americas decrease over the twenty year period?

- (a) 15%
- (b) 18%
- (c) 20%
- (d) 22%

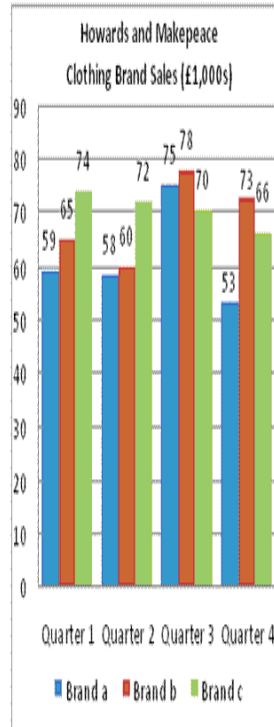
59. In which continent and during which 10 year period was there the sharpest percentage decline in the area of rainforests?

**Model Test Paper 14**  
**General Study Paper II**

- (a) Asia 1980-1990
- (b) Asia 1990-2000
- (c) The Americas 1980-1990
- (d) The Americas 1990-2000

60. The area of global rainforest is being depleted by 1% per year. If this rate continued from 2000 onwards, what will be the total area (in millions of hectares) of world rainforest in 2020?

- (a) 1,056
- (b) 1,236
- (c) 1,251
- (d) 1,264



Breakdown of the previous month's total sales turnover and profit

	Brand a	Estimate
<b>Sales Turnover and Profit (Quarter 4 - third month)</b>		
Sales turnover	23,000	25,000
Sales tax (14%)	3,220	3,500
<b>Net Turnover</b>	<b>19,780</b>	<b>21,500</b>
Variable Costs	5,500	5,900
Fixed Costs	3,300	3,400
<b>Profit</b>	<b>10,980</b>	<b>12,200</b>

61. If Howards and Makepeace's annual sales target for Brand b was £690,000, what fraction of this were actual Brand B sales?

- (a) 1/3
- (b) 22/70
- (c) 3/5
- (d) 2/5

**Model Test Paper 14**  
**General Study Paper II**

62. What are the average sales per quarter for each brand (in the order Brand c; b; a)?

- (a) 70,500; 69,000; 61,250
- (b) 7,050; 6,900; 6,125
- (c) 61,250; 69,000; 70,500
- (d) 61; 71; 69

63. What was Brand a's total sales turnover for the first and second month in Quarter 4?

- (a) £30,000
- (b) £28,000
- (c) £25,000
- (d) £23,000

64. If the variable costs had been 5% higher for the previous month then what would have been the impact on Brand a's profit?

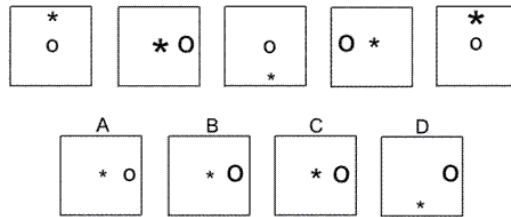
- (a) £165 increase
- (b) £275 decrease
- (c) £275 increase
- (d) No affect on profit

65. The sales tax was calculated incorrectly for Quarter 4 (Month 3) and should have been 16.5%. The mistake caused the Net Turnover (Brand a) to be reported as being what?

- (a) £575 too high
- (b) £1650 too low

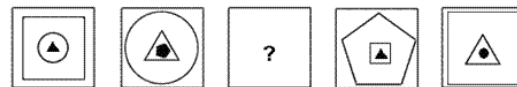
- (c) 16.5% too high
- (d) £575 too low

66.

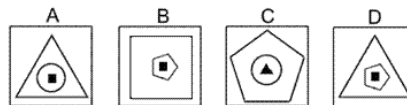


- (a) A
- (b) B
- (c) C
- (d) D

67.



Which of the following replaces the question mark in the sequence?

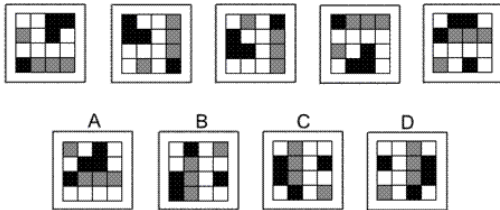


- (a) A
- (b) B
- (c) C
- (d) D



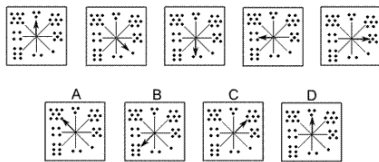
Model Test Paper 14  
General Study Paper II

68.



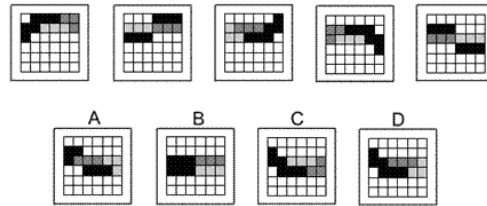
- (a) A
- (b) B
- (c) C
- (d) D

69.



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

70.



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

71. MONK : DEVOTION

- (a) maniac : pacifism
- (b) explorer : contentment
- (c) visionary : complacency
- (d) rover : wanderlust

72. SLAPSTICK : LAUGHTER

- (a) fallacy : dismay
- (b) genre : mystery
- (c) satire : anger
- (d) horror : fear

**Model Test Paper 14**  
**General Study Paper II**

<p>73. VERVE : ENTHUSIASM</p> <p>(a) loyalty : duplicity</p> <p>(b) devotion : reverence</p> <p>(c) intensity : color</p> <p>(d) eminence : anonymity</p> <p>74. SOUND : CACOPHONY</p> <p>(a) taste : style</p> <p>(b) touch : massage</p> <p>(c) smell : stench</p> <p>(d) sight : panorama</p> <p>75. CONVICTION : INCARCERATION</p> <p>(a) reduction : diminution</p> <p>(b) induction : amelioration</p> <p>(c) radicalization : estimation</p> <p>(d) marginalization : intimidation</p> <p>76. Mrs. Carson took a taxi to meet her three friends for lunch. They were waiting for her outside the restaurant when she pulled up in the car. She was so excited to see her friends that she left her tote bag in the taxi. As the taxi pulled away, she and her friends took notice of the license plate number so they would be able to identify the car when they called the taxi company. The four license plate numbers below represent what each of the four women thinks she saw. Which one is most likely the license plate number of the taxi?</p>	<p>(a) JXK 12L</p> <p>(b) JYK 12L</p> <p>(c) JXK 12I</p> <p>(d) JXX 12L</p> <p>77. Zachary has invited his three buddies over to watch the basketball game on his wide-screen television. They are all hungry, but no one wants to leave to get food. Just as they are arguing about who should make the food run, a commercial comes on for a local pizzeria that delivers. The phone number flashes on the screen briefly and they all try to remember it. By the time Zachary grabs a pen and paper, each of them recollects a different number. Which of the numbers is most likely the telephone number of the pizzeria?</p> <p>(a) 995-9266</p> <p>(b) 995-9336</p> <p>(c) 995-9268</p> <p>(d) 995-8266</p> <p>78. Two dice are thrown simultaneously. Find the probability of getting A multiple of '2' on one dice and a multiple of '3' on the other dice</p> <p>(a) 1/36</p> <p>(b) 11/36</p> <p>(c) 1/3</p> <p>(d) 15/36</p>
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**Model Test Paper 14**  
**General Study Paper II**

79. What is the probability, that a leap year selected at random will contain 53 Sundays?

(a)  $1/7$

(b)  $2/7$

(c)  $3/7$

(d)  $4/7$

80. A bag contains '6' red, 4 white and 8 blue balls. If three balls are drawn at random, find the probability, that '1' is red and '2' are white

(a)  $1/68$

(b)  $1/34$

(c)  $3/68$

(d)  $1/17$

Model Test Paper 14  
General Study Paper II

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"/>
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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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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"/>
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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"/>
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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"/>