AL/2020/12/E (NEW)

නව නිර්දේශය/புதிய பாடத்திட்டம்/New Syllabus

NEW

අධ්‍යයන පොදු සහතික පත්‍ර (උසස් පෙළ) විභාගය, 2020
கல்விப் பொதுத் தராதரப் பத்திர (உயர் தரப்) பரீட்சை, 2020
General Certificate of Education (Adv. Level) Examination, 2020

සාමාන්‍ය පොදු පරීක්ෂණය
பொதுச் சாதாரணப் பரீட்சை
Common General Test

12 **E**

පැය දෙකයි
இரண்டு மணித்தியாலம்
Two hours

Instructions:
* Answer *all the questions.*
* Use of calculators is not allowed.
* Write your Index Number in the space provided in the answer sheet.
* Instructions are given on the back of the answer sheet. Follow those carefully.
* In each of the questions 1 to **50**, pick one of the alternatives from (1), (2), (3), (4), (5) which is correct or most appropriate and mark your response on the answer sheet with a cross (×) in accordance with the instructions given on the back of the answer sheet.

1. In July 2019, the World Bank placed Sri Lanka in one of the following income categories based on the country's Gross National Income per capita. Select the correct category.
   (1) Lower-middle income   (2) Upper-middle income   (3) Average-middle income
   (4) Lower-high income   (5) Middle-high income

2. What is the name of Sri Lanka's first research satellite launched into an orbit in the space in June 2019?
   (1) Raavana 1   (2) Rohini 1   (3) Kalpana 1
   (4) Ramayana 1   (5) Rakshasa 1

3. What is the world famous magazine that ranked Sri Lanka as the number one country in the world for travellers to visit in 2019?
   (1) Time   (2) Discovery   (3) Lonely Planet
   (4) The Economist   (5) National Geographic

4. Coronavirus disease (COVID-19) is an infectious disease caused by a new virus that had not been previously identified in humans. What is the name of the city of China that it was first reported from?
   (1) Wuhan   (2) Harbin   (3) Kunming   (4) Nanjing   (5) Yinchuan

5. What was the under 19 sports championship that Sri Lanka won in December 2019 in Thailand?
   (1) Asian Boys Volleyball championship
   (2) Asian Cricket Council championship
   (3) Asian Football Confederation championship (AFC)
   (4) Asia Rugby Division I championship
   (5) Asia Rugby Division II championship

6. In December 2019, India's parliament passed a bill which provides Indian citizenship to immigrants of religious minorities from three neighbouring countries. What are those three countries?
   (1) Bangladesh, Afghanistan and Sri Lanka
   (2) Bangladesh, Afghanistan and Nepal
   (3) Pakistan, Bangladesh and Sri Lanka
   (4) Pakistan, Bangladesh and Nepal
   (5) Pakistan, Bangladesh and Afghanistan

7. A special solar eclipse was witnessed in Sri Lanka in January 2020. According to the scientists, a similar eclipse can be seen next in Sri Lanka in May 2031. What type of solar eclipse is this?
   (1) Sub   (2) Total   (3) Partial   (4) Hybrid   (5) Annular

8. A motor car named Vega EVX, designed and manufactured in Sri Lanka, was officially unveiled in March 2020 at the Geneva International Motor Show 2020 in Switzerland. Vega EVX is a
   - (1) hybrid car.
   - (2) fully-electric supercar.
   - (3) Formula racing car.
   - (4) car run by hydrogen.
   - (5) sports utility vehicle (SUV).

9. A world famous cathedral located in Paris caught fire in 2019 and suffered a huge damage. What is the name of the cathedral?
   - (1) Notre-Dame Cathedral
   - (2) Cologne Cathedral
   - (3) Canterbury Cathedral
   - (4) St. Paul's Cathedral
   - (5) St. Patrick's Cathedral

10. In February 2020, Sri Lanka withdrew from the "co-sponsorship of the resolution 40/1" at the 43 rd session of an inter-governmental body of the United Nations System. What is the name of that organization?
    - (1) United Nations Security Council
    - (2) United Nations Economic and Social Council
    - (3) United Nations Development Programme (UNDP)
    - (4) United Nations Human Rights Council
    - (5) United Nations Educational, Scientific and Cultural Organization (UNESCO)

11. To win a 50-over cricket match the target set is 309 runs. At the end of the 10th over the run rate was 4.5. What is the required minimum run rate in the remaining 40 overs to reach the target?
    - (1) 6.4
    - (2) 6.5
    - (3) 6.6
    - (4) 7.5
    - (5) 7.6

12. A 200 metres long train travelling at a speed of 60 kilometres per hour takes 30 seconds to pass a tunnel. What is the length of the tunnel in metres?
    - (1) 270
    - (2) 290
    - (3) 300
    - (4) 310
    - (5) 320

13. Anura borrowed an amount of money on simple interest at the rate of 6% per annum for the first 2 years, 5% per annum for the next 3 years and 4% per annum beyond 5 years. If the total interest paid by him at the end of the 10 years is Rs. 11 750, how much money did Anura borrow?
    - (1) Rs. 23 500
    - (2) Rs. 24 000
    - (3) Rs. 24 500
    - (4) Rs. 25 000
    - (5) Rs. 25 500

14. Mr. Silva bought a plot of land with the intention of selling it to earn Rs. 8 000 per perch. There is a buyer willing to pay Rs. 34 000 per perch, but that is 15% less than what Mr. Silva paid for a perch. How much does Mr. Silva expect for a perch?
    - (1) Rs. 47 000
    - (2) Rs. 48 000
    - (3) Rs. 50 000
    - (4) Rs. 51 000
    - (5) Rs. 52 000

15. Bavan is going to drive from city A to city B. He drives the first one-third of his trip at an average speed of 30 km h^{-1} and then the rest of the distance at an average speed of 40 km h^{-1}. The total trip from A to B takes 4 hours. What is the distance between A and B in kilometres?
    - (1) 136
    - (2) 140
    - (3) 144
    - (4) 150
    - (5) 180

16. Nimal started a business by investing Rs. 500 000. After four months, Cader joined the business with an amount of Rs. 750 000. If the profit obtained at the end of three years after the business was started, was divided proportionate to both the money invested by each person and the time, what was the ratio of Nimal's profit to Cader's?
    - (1) 3:4
    - (2) 3:5
    - (3) 4:3
    - (4) 4:5
    - (5) 5:3

17. In a group of 10 children, the youngest is 8 years old while the oldest is 16 years old. If the sum of the ages of those children is 120, what is the least possible number of children whose ages are more than 12 years but less than 16?
    - (1) 0
    - (2) 1
    - (3) 2
    - (4) 3
    - (5) 4

18. The length of a rectangle is reduced by 25%, while its breadth is increased by 50%. What is the change in area of the rectangle as a percentage?
    - (1) 12.5% decrease
    - (2) 12.5% increase
    - (3) 25% decrease
   - (4) 25% increase
    - (5) 30% increase

19. On one Sunday morning at 6.00 a.m., Mr. Fernando set the alarm for 1.00 p.m. on following Monday. He was not aware of the fact that the clock has a fault. The clock was gaining uniformly two minutes per hour. What would be the actual time when the alarm goes off on Monday?

    (1) 11.58 a.m.   (2) 12 noon   (3) 12.02 p.m.

    (4) 12.58 p.m.   (5) 1.02 p.m

20. Saama was born on Saturday, 29th February 2020. What is the earliest year that her birthday could fall on a Saturday 29th February again?

    (1) 2040   (2) 2044   (3) 2048   (4) 2052   (5) 2056

21. Five Students took a test in which the pass mark was 20. They all passed the test and the sum of the marks scored by them was 105. If the highest mark was scored by two students, what could have been the highest mark?

    (1) 22   (2) 23   (3) 24   (4) 25   (5) 26

22. A factory gets an urgent order to manufacture a certain item. It has three machines A, B and C capable of producing the particular item. The machine A can complete the entire order in 4 hours and the machines B and C can do the same in 5 and 6 hours respectively. The factory manager decides to utilize all three machines to get the order completed and he starts all three machines at the same time. Exactly after 1 hour, the machine B breaks down and stops working. How much longer will the other two machines take to complete the work?

    (1) A little less than 1 hour   (2) 1 hour exactly

    (3) A little more than 1 hour   (4) A little less than 2 hours

    (5) A little more than 2 hours

23. What should be the number in the last cage according to the pattern?

5	5	10	30	120	600	3 600	?

    (1) 22 400   (2) 24 200   (3) 25 200   (4) 25 400   (5) 26 200

24. Which of the following pairs could be seen on opposite faces of the cube that can be constructed by using the net given in the diagram?

    (1) ✳ and ○   (2) ✳ and □

    (3) △ and ✚   (4) ◇ and □

    (5) △ and □

25.
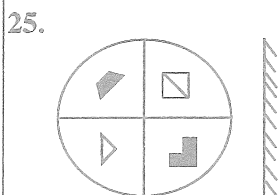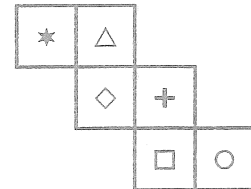
A plane mirror is held in front of the given figure as shown here. Select the correct mirror image of the figure out of the figures given below.

(1)   (2)   (3)   (4)   (5)
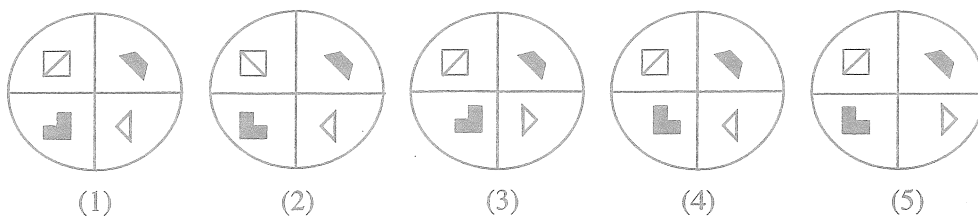
● Questions **26** and **27** are based on the following graph that shows the import and export data of Sri Lanka during 2014-2018.
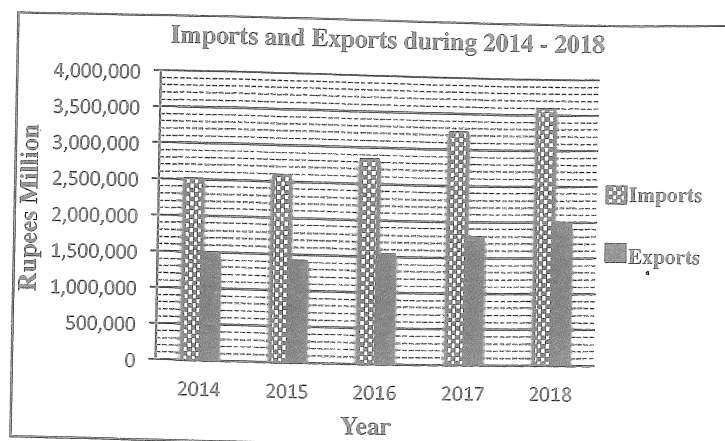
26. In how many years during the period from 2014 to 2018, were the imports more than 150% of the exports in value?

    (1) 1   (2) 2   (3) 3   (4) 4   (5) 5

27. What is the approximate **average annual growth rate** of the imports over the period 2014 to 2018?

    (1) 5%   (2) 10%   (3) 15%   (4) 20%   (5) 40%

● Questions **28** and **29** are based on the following information:

When four kids, Anura, Bhanu, Cassim and David were playing with a rubber ball in the front garden of a house, one kid carelessly threw the ball; and a glass window of the house was broken. The following is what each kid had to tell about who broke the window.

    * Anura   : Bhanu is the one who broke it.
    * Bhanu   : Anura is lying.
    * Cassim : Anura is the one who broke it.
    * David   : I am not the one who broke it.

28. If only one of the kids is telling the truth, who broke the glass window?

    (1) Anura   (2) Bhanu   (3) David
    (4) Anura or Cassim   (5) Bhanu or Cassim

29. If exactly two kids are telling the truth who broke the glass window?

    (1) Anura   (2) Bhanu   (3) Cassim
    (4) Anura or Cassim   (5) Bhanu or Cassim

● Questions **30** and **31** are based on the following information:

A driver expected to drive his vehicle along an expressway a distance of 150 km at the uniform speed of 90 km h^{-1}. Although he was driving accordingly, he had to drive a distance of 15 km on the way at the uniform speed of 75 km h^{-1} due to bad road conditions.

30. What was the time duration in minutes that the driver expected to spend on his journey?

    (1) 72   (2) 90   (3) 100   (4) 120   (5) 160

31. By how many minutes was the journey delayed than the expected time due to the reduction of speed?

    (1) 1   (2) 2   (3) 3   (4) 4   (5) 5

● In each of the questions **32** and **33**, a combined statement is given to compare a certain property of a few different objects by denoting each object with a symbol and ranking them with respect to the properties of mathematical symbols ≤, =, ≥ etc. It is followed by two conclusions drawn from the statement.

              * If only conclusion I is true, select *A*.
              * If only conclusion II is true, select *B*.
              * If both conclusions I and II are true, select *C*.
              * If either conclusion I or conclusion II is true, select *D*.
              * If neither conclusion I nor conclusion II is true, select *E*.

32. Statement : ✌ ≤ 👌 ≤ 👍 = 👎 and ☝ ≥ 👆 ≥ 👎

    Conclusion I : ✌ < ☝

    Conclusion II : ✌ = ☝

    (1) *A*   (2) *B*   (3) *C*   (4) *D*   (5) *E*

33. Statement : ✌ > 👌 ≥ 👍 > 👎 ≥ ☝ and 👎 ≤ ☝ ≤ 👆 < 👉

    Conclusion I : 👎 < 👉

    Conclusion II : 👌 > 👆

    (1) *A*   (2) *B*   (3) *C*   (4) *D*   (5) *E*

● Questions **34** and **35** are based on the description given below on the relative location of six cities; *A*, *B*, *C*, *D*, *E* and *F*.

B is situated 80 kilometres south of *A*, and *C* is situated in the middle of the line joining *A* and *B*. *D* is 30 kilometres west of *A*, while *F* is situated west of *C*. *E* is situated south of *F*, and 40 kilometres west of *B*.

34. What is the direction of city *F* with respect to the city *A*?
    (1) North   (2) South   (3) North-west   (4) South-east   (5) South-west

35. What is the straight-line distance between the cities *C* and *D* in kilometres?
    (1) $40\sqrt{2}$ (2) 50   (3) $50\sqrt{2}$ (4) $85\sqrt{2}$ (5) 100

● Questions **36**, **37** and **38** are based on the following description:

In a certain year, the five students ranked in the first five places of GCE (A/L) Commerce stream represented the districts Jaffna, Galle, Colombo, Gampaha and Ampara respectively. The names of five students are *A*, *B*, *C*, *D* and *E*; and they selected degrees offered in Accounting, Marketing, Finance, Commerce, and Banking, not necessarily in the same order.

    * The ranked 1 student selected a degree in Commerce.
    * The student who selected a Banking degree was ranked between the students who selected Commerce and Marketing degrees.
    * The ranked 5 student selected a degree in Finance.
    * The student from Gampaha selected a degree in Accounting.
    * *A* and *D* have adjacent rankings.
    * *E* selected a degree in Marketing.
    * *B*'s ranking was in between *C*'s and *E*'s.
    * *D* had the island rank 5.

36. Who is the student from Gampaha?
    (1) *A*   (2) *B*   (3) *C*   (4) *D*   (5) *E*

37. Who is the student from Jaffna?
    (1) *A*   (2) *B*   (3) *C*   (4) *D*   (5) *E*

38. What is the degree that the student from Galle had selected to study?
    (1) Finance   (2) Commerce   (3) Marketing   (4) Banking   (5) Accounting

● Questions **39** and **40** are based on coding systems where the digits from 0 to 9 are used to represent English letters so that each letter is represented by a unique digit.

39. Which of the following could be used to encode the term NORTHWESTERN?
    (1) 654270832846   (2) 654270832146   (3) 654270832946
    (4) 654270839846   (5) 654170832946

40. Which of the following terms can be encoded by 0832846159323?
    (1) SOUTHEASTERNS   (2) SOUTHWESTERNS   (3) WESTERNHABITS
    (4) WESTERNCOASTS   (5) NORTHERNCOAST

● Questions **41** and **42** are based on the requirements an applicant must fulfill for a particular job. These requirements are listed in the following box.

> **• The requirements an applicant is supposed to fulfill**
>
> 1. More than 20 years and not more than 27 years of age as on 1st April 2020,
>   **and**
> 2. At least three 'S' passes in Mathematics stream of the GCE (A/L) or minimum of two 'C' passes and an 'S' pass in any other subject stream of the GCE (A/L) together with at least a 'C' pass for the GCE (O/L) Mathematics,
>   **and**
> 3. At least a 'C' pass for the GCE (O/L) English,
>   **and**
> 4. A score above 70 at the Common General Test (CGT).
>
> * However, a person who has fulfilled,
>
> (i) all the requirements except 3 and has taken the GCE (A/L) in the English medium can be considered for the post with the consent of the General Manager of the Company.
> (ii) all the requirements except 4 and has a Bachelor's Degree from a recognized university can be considered for the post with the consent of the Chairman of the Company.

According to the information given in each question,

    if the person is eligible to apply, select...*a*

    if the data provided are not sufficient to decide the eligibility, select............*b*

    if the consent of the General Manager is required to consider, select.............*c*

    if the consent of the Chairman is required to consider, select......................*d*

    if the person is not eligible to apply, select...*e*

41. Anula, who was born on 31st March 2000, has got a 'C' pass for Business Studies, an 'S' pass for Economics, and a 'B' pass for Accounting for the GCE (A/L) examination together with a score of 72 for the CGT. She has a 'B' pass for GCE (O/L) English.
    (1) *a*   (2) *b*   (3) *c*   (4) *d*   (5) *e*

42. Bala, who was born on 31st March 1994, has obtained a degree in Engineering after doing the GCE (A/L) examination in the Mathematics stream in English medium and having secured three 'B' passes and a score of 75 for the CGT.
    (1) *a*   (2) *b*   (3) *c*   (4) *d*   (5) *e*

● Questions 43 and 44 are based on the information given in the following diagram.

In a school, the pupils studying the GCE (A/L) subjects *A*, *B* and *C* are represented in the diagram by the triangle, circle and rectangle respectively.


Pupils studying the subject *B*

Pupils studying the subject *C*

Pupils studying the subject *A*
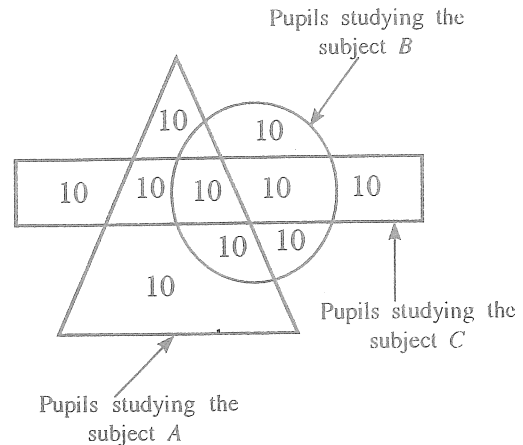
43. How many pupils are studying the subject *C* but **not studying** the subjects *A* or *B*?

(1) 10   (2) 20   (3) 30   (4) 40   (5) 50

44. How many pupils are studying **only two** subjects out of *A*, *B* and *C*?

(1) 10   (2) 20   (3) 30   (4) 40   (5) 50

● In questions **45** and **46**, the sentences *A*, *B*, *C*, *D*, *E* between sentences 1 and 7 are **not** in the correct order. Select the appropriate arrangement of them to form a logical sequence of the seven sentences.

45. 1 - Sri Lanka, recently lifted its import restrictions on several products as part of its COVID-19 economic revival plan.

A - In addition, it will help strengthen the domestic supply chain to avoid dependency on imports.

B - The guidelines regarding this stated "the ban on import of motor vehicles, including motor cycles and three wheelers to be continued with an exception of vehicles used in agriculture, services and construction."

C - The ban on motor vehicle imports was retained.

D - The temporary ban on the importation of products due to a foreign exchange crisis, was first imposed in April this year.

E - Country's economic revival plan aims to stabilize the exchange rate.

7 - As a part of the economic revival plan, the special commodity levy will be maintained at higher levels on several items to encourage local production.

(1) *C, D, B, A, E*   (2) *C, D, B, E, A*   (3) *D, B, C, E, A*
(4) *D, C, B, A, E*   (5) *D, C, B, E, A*

46. 1 - Palms such as coconut, palmyrah and kitul are grown in Sri Lanka.

A - Recently, Coconut Cultivation Board declared another Coconut Triangle known as "Dry Zone Coconut Triangle".

B - North Western Province (Kurunegala and Puttlam Districts) and a part of Western Province (Gampaha District) comprise 56% of the total coconut growing areas of the country.

C - It comprises the areas within Mannar, Mullaitive and Jaffna Districts.

D - That region is known as "Coconut Triangle".

E - Although, coconut is found in almost all parts of the country, major coconut growing areas are the Western, North Western and Southern Provinces.

7 - That was done to boost the total coconut cultivation in the country.

(1) *B, E, D, A, C*   (2) *B, E, D, C, A*   (3) *E, B, D, A, C*
(4) *E, B, D, C, A*   (5) *E, D, B, A, C*

47. Consider the event described by the following pictures:
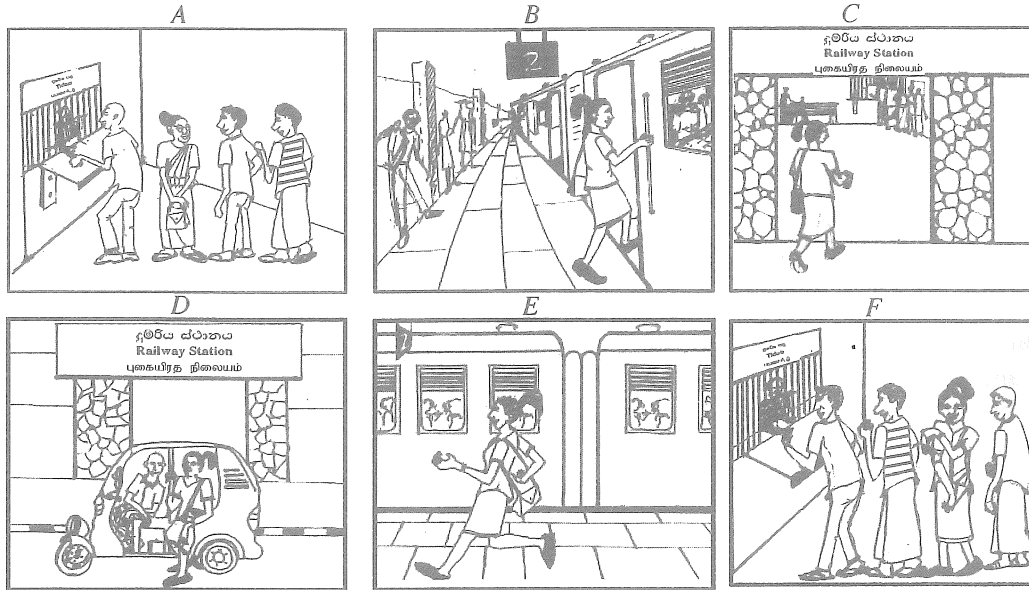
Which of the following arrangements gives the correct sequence of the event?
(1) *D A C F E B*   (2) *D A F C E B*   (3) *D A F E C B*
(4) *D C A F E B*   (5) *D C F A E B*

● Questions **48, 49** and **50** are based on the following conversation.

Here, given below from *A* to *K* are parts of a conversation that took place with some other people while a husband was attempting to admit his wife to a government hospital, starting from the event of calling 1990 to get the services of an emergency ambulance up to admitting his wife to the Intensive Care Unit (ICU) of the hospital until meeting the doctor.
The parts of the conversation are not given in the correct order.

   A. The patient can't talk. Who has come to the Out patients' Department (OPD) with the patient?

   B. Good evening. This is the Emergency Ambulance Service. Where are you speaking from? What can we do for you?

   C. Thanks for responding quickly. The patient can't walk. The address is 532, Colombo Road, Bo-tree Junction, Peradeniya. It is 200 metres away from Bo-tree Junction towards the direction of Colombo.

   D. I am calling from Peradeniya. My wife is undergoing a severe fit. She is unable to talk or walk. I need your services to take her to Peradeniya Hospital.

   E. Doctor, I came with the patient. She's my wife.

   F. Wait for a while sir, our team from Kandy will contact you in a moment.

   G. Here is the clinic record book. She is a diabetic patient. She had a mild fit at noon today for the first time, but recovered immediately. She got this fit again by 7 pm, about 1 hour ago.

   H. Good evening sir; This is from Kandy Emergency Ambulance Service. Can I ask you for your address and the directions to reach your home. Also tell us more, whether the patient can walk upto the Ambulance.

   I. Please give the clinic record book if you have it. How long was the patient under fit?

   J. Now we are doing some tests. Please wait outside. We will call you when neccessary.

   K. Sir, can you hear the siren of the Ambulance. Please appear at your gate for us to see.

48. Which one of the following combinations that includes some parts of the conversation between the patients' husband and 1990 Ambulance service is given in the correct sequence?
(1) *B D A C E*   (2) *B D A E C*   (3) *B D E A C*   (4) *B D E C A*   (5) *B D F H C*

49. Which one of the following combinations that includes some parts of the conversation between the patients' husband and the doctor of ICU is given in the correct sequence?
(1) *A E I G J*   (2) *E I G H J*   (3) *F H G I J*   (4) *F H J I G*   (5) *F I G H J*

50. Which of the following is the most logical sequence of the full conversation?
(1) *A D B C K E F H I G J*   (2) *B D A C K E F I G H J*   (3) *B D A E C K F H J I G*
(4) *B D E A C K F H I G J*   (5) *B D F H C K A E I G J*