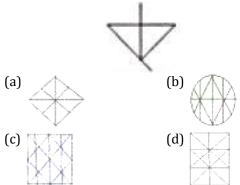
Set 1 – 4th June Shift-I (2019)

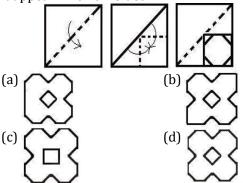
REASONING ABILITY

- If DIG is coded as 25 and CUT is codes as 49, then how will KICK be coded as ?

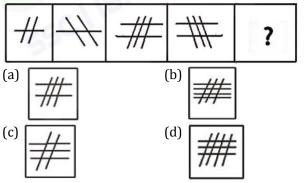
 (a) 43
 (b) 39
 - (c)41 (d) 34
- **2.** Select the option in which the given figure is embedded



3. A paper is folded and cut as shown below. How will it appear when unfolded ?



4. Select the figure that will come next in the following figure series.



5. Select the set in which the numbers are related in the same way as are the numbers of the following set.(0.25.16)

| (9, 35, 16) | |
|------------------|------------------|
| (a) (16, 50, 64) | (b) (25, 30, 4) |
| (c) (36, 55, 25) | (d) (81, 65, 36) |

6. Select the set in which the numbers are related in the same way as are the numbers of the following set.

| (3, 24, 4) | |
|-----------------|----------------|
| (a) (6, 35, 11) | (b) (2, 30, 8) |
| (c) (12, 84, 4) | (d) (4, 72, 9) |

7. Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

| (a) CFIL | (b) GHIJ |
|----------|----------|
| (c) MOQS | (d) PSUX |

8. Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest.

| (a) 126 | (b) 189 |
|---------|---------|
| (c) 254 | (d) 217 |

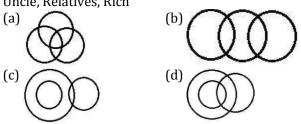
9. In a family of eight persons, there are two couples, each having two children. B and D are brothers and each has two children. E is the aunt of A, who is the cousin brother of C. C is the sister of H, who is the cousin brother of G. F is the wife of B. How is H related to F ?

| (a) Nephew | (b) son-in-law |
|------------|--------------------|
| (c) Son | (d) Brother-in-law |

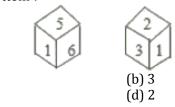
10. Arrange the following words in a logical and meaningful order

| 2. Dinner |
|-------------------|
| 4. Vegetables |
| |
| (b) 3, 5, 4, 1, 2 |
| (d) 3, 4, 1, 5, 2 |
| |

11. Select the venn diagram that best illustrates the relationship between the following classes Uncle, Relatives, Rich



12. Two different positions of the same dice are shown. Which number will be at the top if 6 is at the bottom ?



13. 'Lawyer' is related to 'Justice' in the same way as 'Arbitrator' is related to '_____'.

| (a) Judgment | (b) Injustice | | |
|----------------|-------------------|--|--|
| (c) Settlement | (d) Communication | | |

14. Three of the following four words are alike in a certain way and one is different. Pick the odd word out.(a) Groundnut(b) Mustard

| (a) Groundnut | (b) Mustard | | |
|---------------|-------------|--|--|
| (c) Cumin | (d) Fennel | | |

15. Two statement are given followed by three conclusion numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusion logically follow(s) from the statements.

Statements

(a) 4

(c) 5

All rules are machines

Some machines are costly items

Conclusion

I. some rules are costly items

- **II.** some costly items are machines
- (a) Both conclusion II and III follow
- (b) Both conclusion I and II follow
- (c) Only conclusion II follow
- (d) Only conclusion I follows
- **16.** Select the option that is related to the third lettercluster in the same way as the second letter-cluster is related to the first letter-cluster.

| (b) CGIK |
|----------|
| (d) BDJK |
| |

17. Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.b_bab_bc_abbb_ba_b

| (a) cbbac | (b) cbabc | | |
|-----------|-----------|--|--|
| (c) cbbcb | (d) bcbab | | |

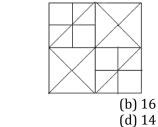
- 18. Which number will replace the question mark (?) in the following series ?3, 7, 16, 35, ?, 153
 - (a) 84 (b) 74 (c) 78 (d) 63
- 19. In the code language, VICTORY is written as CIVSYRO. How will TRAITOR be written as in that language?
 (a) RATHORT
 (b) RTAJORT
 (c) ARTJOTR
 (d) ARTHROT
- 20. Select the number-pair in which the two numbers are related in the same way as are the two numbers of the following number pair.
 36:84
 - (a) 27 : 63 (b) 21 : 51 (c) 57 : 135 (d) 45 : 95
- 21. Rs 1,875 is divided among A, B and C in such a way that A's share is half of the combined share of B and C, and B's share is one-fourth of the combined share of A and C. By what amount is C's share more than that of A ?

 (a) Rs 500
 (b) Rs 225
 (c) Rs 250
 (d) Rs 200
- 22. Select the word-pair in which the two words are related in the same way as are the two words in the following word pair Book : Thesaurus

 (a) Tree : forest
 (b) Reptile : Python
 (c) Furniture : Wood
 (d) Tennis : Ball
- **23.** Which two signs should be interchanged in the following equation to make it correct?

| $12 - 8 + 12 \times 9 \div 3 = 9$ | |
|-----------------------------------|-------------|
| (a) + and ÷ | (b) + and × |
| (c) – and ÷ | (d) + and – |
| | |

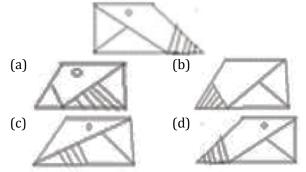
24. How many squares are there in the following figure?



(a) 12

(c) 13

25. Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.



GENERAL AWARENESS

| 26. | dance, performed evil spirits, is a dance form (a) Chham | by Buddhists to ward off m of Himachal Pradesh. (b) Natya | 37. According to the Economist Intelligence Unreport 'World wide Cost of living Survey 2019 which of the following is NOT one of the three | | |
|-----|---|---|---|--|--|
| 27 | (c) Dham | (d) Gogra e tributaries of the river | | cheapest cities in India? (a) Mumbai (c) New delhi | (b) Bengaluru (d) Chennai |
| 27. | (a) Mahanadi (c) Kaveri | (b) Krishna (d) Brahmaputra | 38. | | (d) Chemian places was ruled by the (b) Guwahati (d) Patna |
| 28. | B. The Malimath Committee Report deals with (a) Judicial delays (b) Textile sector reforms (c) Criminal justice system reforms (d) Stock market reforms | | 39. | Name the first ever jud against whom the mot introduced into Parliame | lge of the Supreme Court ion of impeachment was ent in Independent India. (b) Justice Ramaswami |
| 29. | Who attacked and loot temple in 1026 AD? (a) Muhammad Gori (c) Nadir shah | ed the famous Somnath (b) Mahmud of Ghazni (d) Genghis khan | 40. | chief minister of Goa, Manohar Parrikar. (a) Vasundhara Raje | was sworn in as the new following the demise of (b) H D Kumaraswamy (d) Pramod Sawant |
| 30. | Which country was the and services Tax (GST)? (a) France (c) Germany | first to implement Goods (b) USA (d) Canada | 41. | | e Nobel Prize in Physics for (b) Electrons |
| 31. | Which of the following is mines of Odisha? (a) Azurite (c) Bauxite | mined in the Badampahar (b) Dolomite (d) Hematite | 42. | Which queen died fight defending Garha Katanga (a) Rani Avantibai (c) Rani Durgavati | (b) Rani Rudrambara |
| 32. | Sundari is a well -known in (a) Tropical rainforests | species of trees, is found | 43. | 43. Which gas in its solid state is also know ice? (a) Nitrogen (b) Carbon diox (c) Oxygen (d) Hydrogen | |
| | (b) Himalayan mountains(c) Tropical deciduous forests(d) Mangrove forests | | 44. The Olympic Council of Asia (OCA) has decireintroducein the 2022 Asian Games held at Hangzhou, China after it was drop | | 2022 Asian Games to be |
| 33. | The tata Iron and Stee established by Dorabji Ta (a) 1919 | el company (TISCO) was ta in : (b) 1913 | | 2018. (a) Fencing (c) soccer | (b) Cricket (d) Volleyball |
| 34 | (c) 1907 | (d) 1911 Director General of Police | 45. | The property of catenation (a) Sulpur (c) silicon | on is predominant in (b) nitrogen (d) carbon |
| 011 | in Puducherry? (a) Aswathy Tonge (c) Kiran Bedi | (b) Kanchan Choudhary (d) Sundari Nanda | 46. | (d) Carbon (e) Sincon (f) Carbon (f) Carbon (f) Carbon (f) Carbon (g) Sikkim (h) Andhra pradesh (c) Haryana (d) Himachal pradesh (f) Haryana (f) Himachal pradesh (g) Haryana (h) Himachal pradesh (h) Himachal pradesh (h) Shiva Thapa | |
| 35. | Which of the following ele (a) tin (c) Silicon | ements is a metalloid? (b) Bismuth (d) Phosphorus | 47. | | |
| 36. | Methyl propane is an isor (a) n-hexane (c) n-propane | ner of (b) n-butane (d) n-pentane | | | |

- **48.** The ______ edition of the India-Indonesia coordinated patrol (IND-INDO CORPAT) held from 19 March to 4th April 2019 was inaugurated at Port Blair, Andaman and Nicobar Islands
 - (a) 23rd (b) 42nd
 - (c) 45th (d) 33rd

- 49.is the founder of Facebook(a) Mark Zuckerberg(b) Brian Acton(c) Jimmy Wales(d) Large Page
- 50. The Indian National Association was established in 1876 by ______ in Calcutta
 (a) Badruddin Tyabji
 (b) V K Chiplunkar
 (c) Anand Mohan Bose
 (d) Sisir kumar ghosh

QUANTITATIVE APTITUDE

51. A circle is inscribed in a triangle ABC. It touches the sides AB, BC and AC at the points R, P and Q respectively. If AQ = 4.5 cm, PC = 5.5 cm and BR = 6 cm, then the perimeter of the triangle ABC is
(a) 30.5 cm
(b) 28 cm

(c) 32 cm (d) 26.5 cm

52. The table shows the production of different types of cars (in thousands)

| Years | 2012 | 2013 | 2014 | 2015 | 2016 |
|-------|------|------|------|------|------|
| A | 30 | 35 | 48 | 45 | 56 |
| В | 42 | 48 | 40 | 38 | 56 |
| С | 48 | 36 | 38 | 35 | 44 |
| D | 51 | 24 | 30 | 46 | 54 |
| E | 20 | 42 | 40 | 35 | 43 |

If the data related to the production of cars of type E is represented by a pie chat, then the central angle of the sector representing the data of production of cars in 2013 will be

| r · · · · · · · · · · · · · · · · · · · | |
|---|---------|
| (a) 102° | (b) 84° |
| (c) 70° | (d) 80° |

53. A truck covers a distance of 384 km at a certain speed. if the speed is decreased by 16 km/h, it will take 2 hrs more to cover the same distance. 75% of its original speed (in km/h) is

| (a) 45 | (b) 54 |
|--------|--------|
| (c) 48 | (d) 42 |

54. The ratio of the ages of A and B, four years ago, was 4 : 5. Eight years from now, the ratio of the ages of A and B will be 11 : 13. What is the sum of their present ages ?

| (a) 80 yrs | (b) 96 yrs |
|------------|------------|
| (c) 72 yrs | (d) 76 yrs |

55. In \triangle ABC, F and E are the points on sides AB and AC, respectively, such that FE || BC and FE divides the triangle in two parts of equal area. If AD \perp BC and AD intersects FE at G, then GD : AG = ?

| (a) $\sqrt{2}$: 1 | (b) $(\sqrt{2} - 1) : 1$ |
|---------------------|--------------------------|
| (c) $2\sqrt{2}$: 1 | (d) $(\sqrt{2}+1):1$ |

56. If $4 - 2 \sin^2 \theta - 5 \cos \theta = 0$, $0^\circ < \theta < 90^\circ$, then the value of $\sin \theta + \tan \theta$ is

(a)
$$\frac{3\sqrt{2}}{2}$$
 (b) $\frac{3\sqrt{3}}{2}$
(c) $3\sqrt{2}$ (d) $2\sqrt{3}$

57. The table shows the production of different types of cars (in thousands)

| Years | 2012 | 2013 | 2014 | 2015 | 2016 |
|-------|------|------|------|------|------|
| A | 30 | 35 | 48 | 45 | 56 |
| В | 42 | 48 | 40 | 38 | 56 |
| С | 48 | 36 | 38 | 35 | 44 |
| D | 51 | 24 | 30 | 46 | 54 |
| E | 20 | 42 | 40 | 35 | 43 |

What is the ratio of the total production of cars of type A in 2014 and type C in 2013 taken together to the total production of cars of type B in 2016 and type E in 2015 taken together?

| (a) 12 : 13 | (b) 11 : 12 |
|-------------|-------------|
| (c) 10 : 11 | (d) 12 : 11 |

58. if decreasing 120 by x% gives the same result as increasing 40 by x%, then x% of 210 is what percent less than (x + 20)% of 180?

| (a) $33\frac{1}{3}$ | (b) 18 |
|---------------------|--------|
| (c) $16\frac{2}{3}$ | (d) 20 |

- **59.** If $(5\sqrt{5}x^3 81\sqrt{3}y^3) \div (\sqrt{5}x 3\sqrt{3}y) = (Ax^2 + By^2 + Cxy)$, then the value of $(6A + B \sqrt{15}C)$ is (a) 10 (b) 9 (c) 15 (d) 12
- **60.** If a nine-digit number 985x3678y is divisible by 72, then the value of (4x 3y) is (a) 5 (b) 4 (c) 6 (d) 3
- **61.** If $\sin\theta = \frac{p^2 1}{p^2 + 1}$, then $\cos\theta$ is equal to

(a)
$$\frac{-p}{1+p^2}$$
 (b) $\frac{p}{p^2-1}$
(c) $\frac{p}{1+p^2}$ (d) $\frac{2p}{p^2-1}$

62. The ratio of the efficiencies of A, B and C is 2:5:3. Working together, they can complete a work in 27 days. B and C together can complete $\frac{4}{9}$ the part of that work in:

| (a) 27 days | (b) 15 days |
|--------------------------|-------------|
| (c) $17\frac{1}{7}$ days | (d) 24 days |

63. The average of twelve numbers is 42. The average of the last five numbers is 40, and that of the first four numbers is 44. The 6th number is 6 less than the fifth and 5 less than the 7th number. The average of the 5th and the 7th numbers is

| (a) 44 | (b) 44.5 |
|--------|----------|
| (c) 43 | (d) 43.5 |

64. If x + y + z = 19, $x^2 + y^2 + z^2 = 133$ and $xz = y^2$, then the difference between z and x is (2) 5 (b) 3

| (d) 5 | (0) 3 |
|-------|-------|
| (c) 6 | (d) 4 |

- **65.** $\frac{2 + \tan^2 \theta + \cot^2 \theta}{\sec \theta \csc \theta}$ is equal to (a) $\cot \theta$ (b) $\cos \theta \sin \theta$ (c) $\sec \theta \csc \theta$ (d) $\tan \theta$
- **66.** In a circle of radius 10 cm, with centre O, PQ and PR are two chords each of length 12 cm. PO intersects chord QR at the points S. The length of OS is

| (a) 2.8 cm | (b) 2.5 cm |
|------------|------------|
| (c) 3.2 cm | (d) 3 cm |

67. A sum amounts to Rs 8,028 in 3 yrs and to Rs 12,042 in 6 yrs at a certain rate percent per annum, when the interest is compounded yearly. The sum is

| (a) Rs 5,352 | (b) Rs 5,235 |
|--------------|--------------|
| (c) Rs 5,325 | (d) Rs 5,253 |

68. The value of 2 × 3 ÷ 2 of 3 × 2 ÷ (4 + 4 × 4 ÷ 4 of 4 – 4 ÷ 4 × 4) is :

| (a) 8 | (b) 1 |
|-------|-------|
| (c) 4 | (d) 2 |

69. After giving two successive discounts, each of x%, on the marked price of an article, total discount is Rs 259.20. if the marked price of the article is Rs 720, then the value of x is :

| (a) 18 | (b) 24 |
|--------|--------|
| (c) 20 | (d) 25 |

70. A solid cube of volume 13824 cm^3 is cut into 8 cubes of equal volumes. the ratio of the surface area of the original cube to the sum of the surface areas of three of the smaller cubes is

| (a) 2 : 3 | (b) 4 : 3 |
|-----------|-----------|
| (c) 8 : 3 | (d) 2 : 1 |

71. The table shows the production of different types of cars (in thousands)

| Years | 2012 | 2013 | 2014 | 2015 | 2016 |
|-------|------|------|------|------|------|
| A | 30 | 35 | 48 | 45 | 56 |
| В | 42 | 48 | 40 | 38 | 56 |
| С | 48 | 36 | 38 | 35 | 44 |
| D | 51 | 24 | 30 | 46 | 54 |
| E | 20 | 42 | 40 | 35 | 43 |

The total production of type B cars in 2012, 2014 and 2015 taken together is approximately what percent more than the total production of type A cars in 2013 and 2016 taken together?

| (a) 31.9 | (b) 33.2 |
|----------|----------|
| (c) 36.3 | (d) 34.4 |

72. The table shoes the production of different types of cars (in thousands)

| Years | 2012 | 2013 | 2014 | 2015 | 2016 |
|-------|------|------|------|------|------|
| A | 30 | 35 | 48 | 45 | 56 |
| В | 42 | 48 | 40 | 38 | 56 |
| С | 48 | 36 | 38 | 35 | 44 |
| D | 51 | 24 | 30 | 46 | 54 |
| E | 20 | 42 | 40 | 35 | 43 |

The numbers of years, in which the production of cars of type B is less than the average production of type D cars over the years is

| (a) 4 | (b) 1 |
|-------|-------|
| (c) 3 | (d) 2 |

73. A person sold an article at a loss of 15%. had he sold it for Rs 30.60 more, he would have gained 9%. To gain 10%, he should have sold it for

| (a) Rs 140.25 | (b) Rs 132 |
|---------------|---------------|
| (c) Rs 130 | (d) Rs 128.40 |

74. In a ΔABC, the bisectors of ∠B and ∠C meet at point 0, inside the triangle. If ∠BOC = 122°, then the measure of ∠A is
(a) 64°
(b) 62°

| (a) 04 | (0) 02 |
|---------|---------|
| (c) 72° | (d) 68° |

75. If $x^4 + x^{-4} = 194$, x > 0, then the value of $(x - 2)^2$ is

| (a) 1 | (b) 6 |
|-------|-------|
| (c) 2 | (d) 3 |

ENGLISH LANGUAGE

Directions (76-80): In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Seoul's city government is asking people for help to correct poorly translated street sings-with prizes on offer for (76) ______ who spot the most errors. It's running (77) _____ two-week campaign calling on Koreans and foreigners (78) _____ to keep their eyes peeled for (79) _____ in English, Japanese and Chinese text, the Korea Times reports. There's (80) _____ focus on public transport signs, maps and information signs at historic sites, as part of a drive to improve the experience of foreign tourists in the South Korean capital.

- 76. Select the most appropriate option for blank no. 1
 (a) this
 (b) those
 (c) that
 (d) these
- 77. Select the most appropriate option for blank no. 2(a) one(b) the(c) an(d) a
- 78. Select the most appropriate option for blank no. 3
 (a) same
 (b) similarly
 (c) alike
 (d) likely
- 79. Select the most appropriate option for blank no. 4
 (a) guffaws
 (b) blunder
 (c) oversight
 (d) mistakes
- 80. Select the most appropriate option for blank no. 5
 (a) particular
 (b) important
 (c) signifying
 (d) meticulous
- 81. Select the synonym of the given word COERCE
 (a) enchant(b) pressurize
 - (c) cajole (d) leave
- **82.** In the sentence identify the segment which contains the grammatical error. We had to decline several orders in case that the production was held up due to labour strike.
 - (a) in case that
 - (b) the production was held up
 - (c) due to labour strike
 - (d) we had to decline
- **83.** Select the most appropriate word to fill in the blank His company has the _____ of producing the best

cricket balls in the country.

| (a) opinion | (b) brand |
|----------------|--------------|
| (c) reputation | (d) position |

- 84. Select the antonym of the given word EXPANSION
 (a) inflation(b) augme
 - (a) inflation(b) augmentation(c) extension(d) compression

- 85. Select the antonym of the given word SCARCE

 (a) scanty
 (b) few
 (c) seldom
 (d) plentiful
- 86. Select the wrongly spelt word
 (a) calander
 (b) career
 (c) callous
 (d) carriage
- 87. Select the most appropriate word to fill in the blank
 Around sixty bands in colourful _____took part in the Notting Hill Carnival.
 (a) clothings
 (b) costumes
 - (c) apparels (d) dressing
- 88. Select the word which means the same as the group of words givenA person, animal or plant much below the usual height
 (a) wizard(b) dwarf
 - (c) creature (d) witch
- 89. Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select "no improvement". The workers of this textile factory <u>demand higher wages</u> for a long time.
 (a) have been demanding higher wages
 - (b) demanded higher wages
 - (c) no improvement
 - (d) has demanded higher wages
- **90.** Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select "no improvement". If you park your car here, the traffic police <u>has fined you</u>

| (a) will fine you | (b) no improvement |
|-------------------|--------------------|
| (c) fine you | (d) fined you |

- **91.** Given below are four jumbled sentences. Select the option that gives their correct order.
 - **A.** The cafe's owner says he's interested in conservation, and hopes customers will realise the animals are worth saving, even though they often have a bad reputation.
 - **B.** None of them are venomous, meaning customers can get up close and personal with the reptiles.
 - **C.** Here you sip your drink in the company of 35 snakes.
 - **D.** This café, which has just opened in Tokyo, is not for the faint-hearted.
 - (a) DBCA (b) DCBA
 - (c) ABCD (d) ABDC

- **92.** Given below are four jumbled sentences. Select the option that gives their correct order.
 - **A.** An environmental group performed a necropsy on the animal and found about 40 kilograms of plastic, including grocery bags and rice sacks.
 - **B.** A 4.7-metre long whale died on Saturday in Philippines where it was stranded a day earlier.
 - **C.** "It is very disgusting and heartbreaking," he said. "We've done necropsies on 61 dolphins and whales in the last 10 years and this is one of the biggest amounts of plastic we've seen."
 - **D.** "The animal died from starvation and was unable to eat because of the trash filling its stomach," said Darrell Blatchley, Director of D'Bone Collector Museum Inc.

| (a) ABCD | (b) DABC |
|----------|----------|
| (c) BADC | (d) BACD |

- **93.** Select the most appropriate meaning of the given idiom.
 - To play ducks and drakes
 - (a) to use recklessly (b) to change places
 - (c) to be friendly (d) to act cleverly
- 94. In the sentence identify the segment which contains the grammatical error. Cyclone Idai killed at least 157 people in Zimbabwe and Mozambique although it tore across southern Africa.
 (a) cyclone Idia killed (b) it tore across (c) although (d) at least 157 people
- **95.** Select the correct active form of the given sentence.

Every passing vehicle was being thoroughly checked by the guards.

- (a) the guards were thoroughly checking every passing vehicle
- (b) the guards have thoroughly checked every passing vehicle
- (c) every passing vehicle were thoroughly checking the guards
- (d) the guards have been thoroughly checking every passing vehicle.

- **96.** Select the wrongly spelt word
 - (a) exploite(b) explicit(c) expire(d) explode
- 97. Select the synonym of the give word
 CHRONIC

 (a) ordinary
 (b) persistent
 (c) common
 (d) temporary
- **98.** Select the most appropriate meaning of the given idiom.
 - At daggers drawn (a) deceiving somebody (b) without hope (c) friendly with each other (d) bitterly hostile
- **99.** Select the word which means the same as the group of words given

A student who idly or without excuse absents himself/herself from school

- (a) truant(b) vagrant(c) itinerant(d) migrant
- **100.**Select the correct passive form of the given sentence

Do not buy medicines without the doctor's prescription.

- (a) Medicines should not be bought without the doctor's prescription.
- (b) Medicines need to be bought without the doctor's prescription.
- (c) Medicines might not be bought without the doctor's prescription.
- (d) Medicines could not be bought without the doctor's prescription.