

ATOMIC ENERGY EDUCATION SOCIETY

MCQ TEST- 21 Jan 2020

CLASS – VII

MATHEMATICS

MARKS – 40

TIME – 1 hr

Name -

Class / Sec –

R.No. -

Marks Secured = $\frac{\quad}{40}$

Sign of the Invigilator -

Sign of the Examiner -

(Put a \surd mark on the correct option for each Question)

- Which of the following can be converted into a percent ?
(a) a decimal (b) a ratio (c) a fraction (d) all
- Out of 40 students , 4 are absent. What percent of students are present ?
(a) 96 (b) 95 (c) 90 (d) 80
- $12\frac{1}{2}\%$ of 400 =
(a) 25 (b) 50 (c) 24 (d) 40
- A basket of apple is distributed among three students A , B and C in the ratio of 3 : 2 : 5 . What percent of the whole apples did B get ?
(a) 20 (b) 30 (c) 40 (d) 50
- By selling a toy for Rs 690 , the shopkeeper gained 15% . The CP of the toy is
(a) Rs 600 (b) Rs 1035 (c) Rs 675 (d) Rs 705
- At what rate of interest will a sum of Rs 4500 amount to Rs 5715 in 3 years ?
(a) 10 % p.a. (b) 9 % p.a. (c) 8 % p.a. (d) 15 % p.a.
- The angles of a triangle are in the ratio 2 : 3 : 4 . The greatest angle measures
(a) 40° (b) 60° (c) 80° (d) 100°
- Which of the following formula is wrong ?
(a) $SP = CP + \text{profit}$ (b) $SP = CP - \text{loss}$ (c) $CP = SP - \text{profit}$ (d) $CP = SP - \text{loss}$
- If 0.5 % of X = 25 , then X =
(a) 5 (b) 50 (c) 500 (d) 5000
- 15 % of 15 =
(a) 225 (b) 22.5 (c) 2.25 (d) 0.225

11. How many rational numbers can we find between $\frac{3}{8}$ and $\frac{7}{8}$?
 (a) 5 (b) 4 (c) 3 (d) many
12. The standard form of $\frac{119}{-153}$ is
 (a) $\frac{7}{9}$ (b) $\frac{-7}{9}$ (c) $\frac{7}{-9}$ (d) $\frac{-7}{-9}$
13. Among the rational numbers $\frac{1}{2}$, $\frac{-1}{2}$, 0 and $\frac{2}{5}$, the smallest number is
 (a) $\frac{1}{2}$ (b) $\frac{-1}{2}$ (c) 0 (d) $\frac{2}{5}$
14. Among the rational numbers $\frac{-3}{5}$, $\frac{-4}{5}$, -1 and 0, the largest number is
 (a) $\frac{-3}{5}$ (b) $\frac{-4}{5}$ (c) -1 (d) 0
15. Which of the following pairs represent the same rational number ?
 (a) $\frac{3}{9}$, $\frac{9}{3}$ (b) $\frac{3}{5}$, $\frac{12}{-20}$ (c) $\frac{-5}{8}$, $\frac{-5}{-8}$ (d) $\frac{4}{6}$, $\frac{-6}{-9}$
16. The sum of two rational numbers is $\frac{-1}{8}$. If one no. is $\frac{-5}{8}$, the other no. is
 (a) $\frac{1}{2}$ (b) $\frac{-1}{2}$ (c) $\frac{-3}{8}$ (d) $\frac{-6}{8}$
17. The product of a non-zero rational number with its reciprocal is
 (a) 0 (b) 1 (c) $\frac{p}{q}$ (d) $\frac{q}{p}$
18. The cost of $3\frac{1}{2}$ m cloth at the rate of Rs 300 per metre is
 (a) Rs 105 (b) Rs 1050 (c) Rs 1000 (d) Rs 915
19. Which of the following criterion is not suitable for construction of a triangle ?
 (a) SSS (b) SAS (c) SSA (d) ASA
20. Two angles of a triangle are 60° and 70° . An exterior angle of the Δ may be
 (a) 110° (b) 140° (c) 100° (d) 150°
21. The angles of a triangle are in the ratio of 2 : 3 : 7. The greatest angle measures
 (a) 130° (b) 145° (c) 90° (d) 105°
22. In ΔABC , if $\angle A + \angle B = 70^{\circ}$ and $\angle B + \angle C = 140^{\circ}$, then $\angle B =$
 (a) 70° (b) 50° (c) 30° (d) 60°

23. The measures (in cm) of three sides of a triangle can't be
 (a) 5, 5, 5 (b) 3, 4, 5 (c) 4, 4, 5 (d) 2, 3, 5
24. The length of the boundary line of a closed figure is called its
 (a) Perimeter (b) Area (c) volume (d) surface
25. The area of a square park is 16 m^2 . Its perimeter is
 (a) 4 m (b) 4 m^2 (c) 16 m (d) 20 m
26. The base and the corresponding height of a parallelogram are 5.0 cm and 2.2 cm respectively. Its area is
 (a) 5.5 cm (b) 5.5 cm^2 (c) 11.0 cm^2 (d) 11.0 cm
27. The circumference of a circle is 132 cm. Its radius is
 (a) 21 cm (b) 2.1 cm (c) 42 cm (d) 4.2 cm
28. The radius of a car wheel is 14 cm. The number of times it rotates to go 8.8 km is
 (a) 100000 (b) 10000 (c) 1000 (d) 100
29. The ratio of circumference to diameter of a circle is
 (a) 2 : 1 (b) 22 : 7 (c) 7 : 22 (d) 1 : 2
30. The ratio of the radii of two circles is 3 : 2. The ratio of their areas is
 (a) 9 : 4 (b) 4 : 9 (c) 27 : 8 (d) 8 : 27
31. The perimeter of a semi-circular region having diameter 7.0 cm is
 (a) 14 cm (b) 22 cm (c) 18 cm (d) 35 cm
32. 1 hectare = m^2
 (a) 100000 (b) 10000 (c) 1000 (d) 100
33. An algebraic expression having one or more terms is called a
 (a) monomial (b) binomial (c) trinomial (d) polynomial
34. The n^{th} term of the number pattern 11, 21, 31, 41, is
 (a) $10 + n$ (b) $10n + 1$ (c) $2n + 1$ (d) $10^n + 1$
35. The value of $n^3 + n^2 + n + 1$ for $n = -1$ is
 (a) 1 (b) -1 (c) 0 (d) 4
36. The algebraic expression for "Three more than five times a number x" is
 (a) $5x + 3$ (b) $5x - 3$ (c) $3x + 5$ (d) $3x - 5$

37. The numerical coefficients of the expression $4x - 3y + z$ are
(a) 4, -3, 1 (b) 4, -3 (c) x, y, z (d) $4 - 3 + 1 = 2$
38. Which of the following pairs of terms are like terms ?
(a) $7x, 7y$ (b) $5a^2b, 5ab^2$ (c) $-5mn, \frac{2}{3}nm$ (d) pqs, qrs
39. The sum of $4m, -5m, 8m$ and $-7m$ is
(a) $24m$ (b) 24 (c) $4m$ (d) 0
40. The n^{th} term of a number pattern is $\frac{n(n+1)}{2}$. Its 5th term is
(a) 5 (b) 10 (c) 15 (d) 20
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ATOMIC ENERGY EDUCATION SOCIETY

VII - MATHEMATICS - MCQ TEST- Jan.2020

ANSWER KEY

Q. No.	CORRECT OPTION	CORRECT ANSWER	M C Q	Q.No.	CORRECT OPTION	CORRECT ANSWER
1	(d)	all		21	(d)	105^0
2	(c)	90		22	(c)	30^0
3	(b)	50		23	(d)	2, 3, 5
4	(a)	20		24	(a)	perimeter
5	(a)	Rs 600		25	(c)	16 m
6	(b)	9% p.a.		26	(c)	11.0 cm^2
7	(c)	80^0		27	(a)	21 cm
8	(d)	CP=SP-loss		28	(b)	10000
9	(d)	5000		29	(b)	22 : 7
10	(c)	2.25		30	(a)	9 : 4
11	(d)	many		31	(c)	18 cm
12	(b)	-7/9		32	(b)	10000
13	(b)	-1/2		33	(d)	polynomial
14	(d)	0		34	(b)	$10n + 1$
15	(d)	4/6, -6/-9		35	(c)	0
16	(a)	1/2		36	(a)	$5x + 3$
17	(b)	1		37	(a)	4, -3, 1
18	(b)	Rs 1050		38	(c)	$-5mn, 2/3nm$
19	(c)	SSA		39	(d)	0
20	(a)	110^0		40	(c)	15

Atomic Energy Education Society
MCQ Test-2019-2020

Class: VII

Time: 1 Hour

Subject: SCIENCE

Marks: 40

1. You are provided with concave mirror, convex mirror, concave lens and convex lens. To obtain an enlarged image of an object you can use either-

- a) concave mirror & convex mirror b) concave mirror & convex lens
c) concave mirror & concave lens d) concave lens & convex lens

2. An erect and enlarged image can be formed by-

- a) Only a convex mirror b) Only a concave mirror
c) Only a plane mirror d) both concave & convex mirror

3. Bojhoo & Paheli were given one mirror each by their teacher. Bojhoo found his image to be erect and of the same size whereas Paheli found her image erect and smaller in size. This means that the mirrors of Bojhoo and Paheli are respectively:

- a) plane mirror and concave mirror b) concave mirror and convex mirror
c) plane mirror and convex mirror d) convex mirror and plane mirror

4. A bus travels 54 km in 90 minutes. The speed of the bus is:-

- a) 0.6 m/s b) 10 m/s c) 5.4 m/s d) 3.6 m/s

5. Boojho walks to his school which is at a distance of 3 km from his home in 30 minutes. On reaching he finds that the school is closed and comes back by a bicycle with his friend and reaches home in 20 minutes. His average speed in km/h is :-

- a) 8.3 b) 7.2 c) 5 d) 3.6

6. Who discovered magnetic effect of electric current?

- a) Joule b) Maxwell c) Oersted d) Newton

7. A car moves with a speed of 80 km/h for 15 minutes and then with a speed of 60 km/h for the next 15 minutes. The total distance covered by the car is :

- a) 100 km b) 50 km c) 35 km d) 70 km

8. The value of 2 km/h is equal to:-

- a) $4/9\text{m/s}$ b) $5/9\text{m/s}$ c) $13/9\text{m/s}$ d) $7/9\text{m/s}$

9. If the number of turns in the coil of electromagnet are more then the strength of electromagnet will be:- a) greater b) lesser c) same d) double

10. The percentage of oxygen in inhaled air is:- a) 21% b) 16.4% c) 18% d) 20%

11. Respiration in the muscles results in the formation of –

- a) citric acid b) tartaric acid c) lactic acid d) acetic acid

12. During inhalation the diaphragm moves –

- a) upward b) downward c) remains there only d) none of the above

13. Earthworms respire through – a) lungs b) spiracles c) skin d) gills

14. The size of chest cavity during inhalation –

- a) remains unchanged b) increases c) decreases d) none of the above

15. The main excretory product of fish is -- a) urea b) uric acid c) ammonia d) sulphur

16. Circulation in Hydra takes place through -- a) water b) heart c) blood d) Lymph

17. Urine in human contains uric acid – a) 95% b) 5% c) 2.5% d) 2%

18. Blood in human will continue to flow in absence of :-

- a) RBC b) WBC c) Platelets d) Haemoglobin

19. On putting salt water to a potted plant it will –

- a) grow faster b) show slow growth c) wilt d) nothing will happen

20. The liquid part of the blood is – a) plasma b) protein c) water d) none of the above

21. which one of the following is not a type of asexual reproduction:-

- a) spores b) pollination c) budding d) fragmentation

22. Which of the following does have a bisexual flower?---

- a) mustard b) papaya c) rose d) petunia

23. Which plant bears spiny seeds with hooks to be dispersed by animals?—

- a) sunflower b) xanthium c) castor d) balsam

24. Electric bell works on the principle of:-

- a) electrical energy changes to sound energy b) electrical energy changes to mechanical energy
c) mechanical energy converted to sound energy d) sound energy converted to electrical energy

25. Read the following statements and select the correct options:

Statement 1: the surface of bulb becomes warmer than the connecting wires when the same current flows through them.

Statement 2: A thin and long wire has higher resistance than thick and small wire.

- a) Both statements 1&2 are true and statement 2 is correct explanation of statement 1.
b) Both statements 1&2 are true but statement 2 is not correct explanation of statement 1.
c) statement 1 is true but statement 2 is false.
d) statement 2 is true but statement 1 is false.

26. A fuse wire is made up of alloy :

- a) Nichrome b) Tin-lead c) Manganin d) Constantan

27. In all the electrical appliances, the switches are put in the

- a) live wire b) earth wire c) neutral wire d) all of above

28. What happens to the current in short circuit?

- a) reduces substantially b) does not change c) increases heavily d) vary continuously

29. During inhalation , inside lungs:

- a) volume increases, pressure decreases b) volume decreases, pressure increases
c) volume increases, pressure increases d) volume decreases, pressure decreases

30. Which of the following animal can breathe through both lungs and skin?

- a) Fish b) Mammal c) Cockroach d) Frog

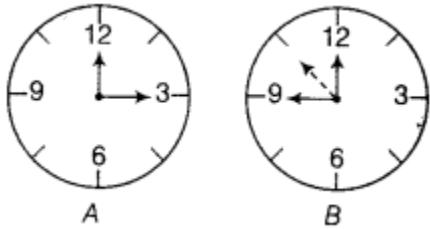
31. Breathing is a ----- process while respiration is a ----- process.

- a) physical, chemical b) chemical, physical c) chemical, chemical d) physical, physical

32. The flowers which contains either only the pistil or only the stamens are called:

- a) Unisexual flowers b) Bisexual flowers c) Asexual flowers d) None of the above

33. Two clocks A and B are shown in figure. Clock A has an hour and a minute hand whereas clock B has an hour hand, minute hand as well as a second hand. Which of the following statement is correct for these clocks?



- (a) A time interval of 30 seconds can be measured by clock A
- (b) A time interval of 30 seconds cannot be measured by clock B
- (c) Time interval of 5 minutes can be measured by both A and B
- (d) Time interval of 4 minutes 10 seconds can be measured by clock A

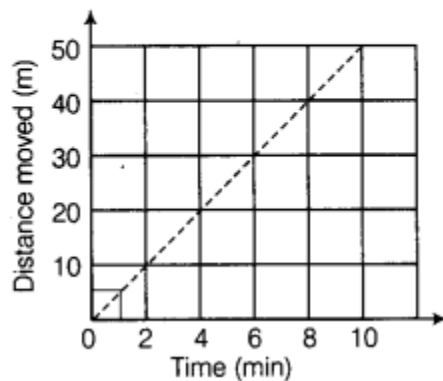
34. Two students were asked to plot a distance-time graph for the motion described by Table A and Table B.

Table A

Distance moved (m)	0	10	20	30	40	50
Time (min)	0	2	4	6	8	10

Table B

Distance moved (m)	0	5	10	15	20	25
Time (min)	0	1	2	3	4	5



The graph given in figure is true for

- (a) Both A and B
- (b) Only A
- (c) Only B
- (d) Neither A Nor B

35. Focal point is the point where

- a) light spread out quickly
- b) light rays meet
- c) lens can magnify the most
- d) dispersion of light occurs

36. Which of the following parts of a plant take part in sexual reproduction?

- (i) Flower
- (ii) Seed
- (iii) Fruit
- (iv) Branch

Choose the correct answer from below.

- (a) (i) and (ii)
- (b) (i), (ii) and (iii)
- (c) (iii) and (iv)
- (d) (ii), (iii) and (iv)

37. Which of the following statements is/are true for sexual reproduction in plants?

- (i) Plants are obtained from seeds.
- (ii) Two plants are always essential.
- (iii) Fertilization can occur only after pollination.
- (iv) Only insects are agents of pollination.

Choose from the options given below.

- (a) (i) and (iii)
- (b) (i) only
- (c) (ii) and (iii)
- (d) (i) and (iv)

38. The muscular tube through which stored urine is passed out of the body is called –

- (a) kidney
- (b) ureter
- (c) urethra
- (d) urinary bladder

39. In a tall tree, which force is responsible for pulling water and minerals from the soil?

- (a) Gravitational force
- (b) Transportation force
- (c) Suction force
- (d) Conduction force

40. Fish breathe with the help of gills which are richly supplied with blood vessels. The gills help the fish to

- (a) take in oxygen from air.
- (b) take in oxygen dissolved in water.
- (c) absorb nutrients present in water.
- (d) release waste substances in water.

**Atomic Energy Education Society
MCQ Examination-2019-2020**

Class: VII

Subject: SCIENCE

Answer Key

Marks: 40

1. b concave mirror & convex lens
2. b Only a concave mirror
3. c plane mirror and convex mirror
4. b 10 m/s
5. b 7.2
6. c Oersted
7. c 35km
8. b 5/9m/s
9. a) greater
10. a) 21%
11. c lactic acid
12. b downwards
13. c skin
14. b increases
15. c ammonia
16. a water
17. c 2.5%
18. c platelets
19. c wilt
20. a plasma
21. b) pollination
22. b) papaya
23. b) xanthium
24. a) electrical energy changes to sound energy
25. b) Both statements 1&2 are true but statement 2 is not correct explanation of statement 1.

- 26. b) Tin-lead
- 27. c) neutral wire
- 28. c) increases heavily
- 29. a) volume increases, pressure decreases
- 30. d) Frog
- 31. a) physical, chemical
- 32. a) Unisexual flowers
- 33. (c) Time interval of 5 minutes can be measured by both A and B
- 34. (a) Both A and B
- 35. b) light rays meet
- 36. (b) (i), (ii) and (iii)
- 37. (a) (i) and (iii)
- 38. (c) urethra
- 39. (c) Suction force
- 40. (b) take in oxygen dissolved in water.

ATOMIC ENERGY EDUCATION SOCIETY

MULTIPLE CHOICE QUESTIONS-TEST (2019-2020)

CLASS :VII

SOCIAL SCIENCE

Time:- 1 Hour

Max.Marks: 40

1. Whose name is carved on the temple wall of Rajarajeshvara temple of Thanjavur?
a. King Rajaraja Chola b. Kunjaramallan Rajaraja Perumthachchan
c. Domingo Paes d. King Vir Pratap **Ans ()**
2. Ajmer was the capital of ----- kings in the twelfth century.
a. Chauhan b. Rajput c. Chola d. Ahom **Ans ()**
3. Which of the following lake is situated near Ajmer?
a. Chilika b. Dal c. Pushkar d. Koleru **Ans ()**
4. The ----- festival was one of the most important festivals celebrated in Hampi.
a. Diwali b. Holi c. Mahanavami d. Ganesh Chaturthi **Ans ()**
5. The chief of Khokhar tribe, ----- was made a noble by Emperor Akbar.
a. Kamal khan Gakkhar b. Ram Khan Gakkhar
c. Shyam Khan Gakkhar d. Siraj Khan Gakkhar **Ans ()**
6. Sultan ----- used the Banjaras to transport grain into the city markets.
a. Jahangir b. Alauddin Khalji c. Akbar d. Aurangzeb **Ans ()**
7. Garha Katanga was the kingdom of -----
a. Ahoms b. Banjaras c. Khokhars d. Gonds **Ans ()**
8. Who assumed the title of Sangram Shah?
a. Aman Das b. Durgawati c. Dalpat d. Salbahan **Ans ()**
9. ----- of Ganga dynasty, erected a temple for Purushottama Jagannatha at Puri.
a. Anagabhima b. Anantavarman c. Prithviraj d. Gopichandra **Ans ()**
10. ----- were saints devoted to Shiva.
a. Buddhists b. Panars c. Alvars d. Nayanars **Ans ()**
11. Writing of saints' lives is called -----.
a. Biography b. Autobiography
c. Hagiography d. Cartography **Ans ()**
12. ----- movement was initiated by Basavanna and his companions.
a. Virashaiva b. Virabhadra c. Sufism d. Vaishnavas **Ans ()**
13. ----- literally means diamonds and corals.
a. Manijalkam b. Manikyam c. Makutam d. Manipravalam **Ans ()**
14. House of rest for travellers, especially one kept by a religious order is known as-----
a. Hospice b. Silsilas c. Khels d. Dargah **Ans ()**

15. Which of the following is a hardwood tree?
 a. Bamboo b. Pine c. Deodar d. Mahogany **Ans ()**
16. Softwood evergreen trees are useful for making ----- which is used for making paper.
 a. trunk b. Pulp c. powder d. bark **Ans ()**
17. 'Taiga' means pure or untouched in the ----- language.
 a. Italian b. Chinese c. French d. Russian **Ans ()**
18. Mediterranean regions are known as "----- of the world' for their fruit cultivation.
 a. Tundra b. Grasslands c. Orchards d. Forests **Ans ()**
19. Grasslands of North America are known as----- .
 a. Prairies b. Pampas c. Veld d. Downs **Ans ()**
20. Thick mud walled houses with thatched roofs are very common in the areas of ----
 --- climate.
 a. Cold b. hot c. dry d. rainy **Ans ()**
21. ----- are used as transport in the Andes mountains of South America.
 a. Yaks b. Mules b. Llamas d. Bullocks **Ans ()**
22. The ----- Railways is the longest railway system.
 a. Trans- Siberian b. Indian c. Canadian National d. Australian **Ans ()**
23. ----- have made communication faster.
 a. Stars b. satellites c. Planets d. Meteorites **Ans ()**
24. If you are visiting an island, which of following mode will be suitable?
 a. Train b. Car c. Ship d. paper boat **Ans ()**
25. The place where a river flows into another body of water is called river's -----
 a. Mouth b. Source c. Delta d. Meander **Ans ()**
26. ----- are special plants that store water in their leaves.
 a. Fungi b. Algae c. Bromeliads d. Strangler fig **Ans ()**
27. ----- is a flesh eating fish.
 a. Katla b. Hilsa c. Prawns d. Piranha **Ans ()**
28. Large apartment-like houses in the rainforests are called-----.
 a. Thatched b. Maloca c. tapioca d. cocoa **Ans ()**
29. Television and Radio are----- media.
 a. Electronic b. print c. Publishing d. Local **Ans ()**
30. A ----- report is one that discusses all points of view of a particular story and then leaves it to the readers to make up their minds.
 a. Public b. balanced c. private d. unbalanced **Ans ()**
31. Which of the following is **not** a mass media?
 a. Inland letter b. Radio c. Television d. Newspaper **Ans ()**
32. An independent media is important in a -----.
 a. Autocracy b. Democracy c. Dictatorship d. Monarchy **Ans ()**
33. ----- attract people's attention to their products.
 a. News b. consumer c. skit d. advertisements **Ans ()**

34. The naming of the product is called -----.
- a. Producing b. Selling c. Branding d. Challenging **Ans ()**
35. Small businessmen have to sell their products in ----- markets.
- a. Weekly b. Malls c. Permanent shops d. online **Ans ()**
36. ----- is a trader who buys a product in huge quantities from the producers and sells it to small traders.
- a. Retailer b. Wholesaler c. Producer d. Consumer **Ans ()**
37. A ----- provides door to door service.
- a. Consumer b. Customer c. Hawker d. Wholesaler **Ans ()**
38. The trader comes in between ----- and consumer.
- a. Producer b. customer c. buyer d. seller **Ans ()**
39. Consumers can bargain to bring the ----- down in a weekly market.
- a. Quality b. quantity c. price d. number **Ans ()**
40. ----- is a fortnightly newspaper, run by Dalit women.
- a. Mumbai Mirror b. Khabar Lahriya c. Kesari d. Lokmath **Ans ()**
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ATOMIC ENERGY EDUCATION SOCIETY**Class:VII****Sub: Social Science****MCQ Test- (2020) Answer Key.**

Sl. No.	Option No.	Answers
1	b	Kunjaramallan Rajaraja Perumthachchan
2	a	Chauhans
3	c	Pushkar
4	c	Mahanavami
5	a	Kamal khan Gakkhar
6	b	Alauddin Khalji
7	c	Gonds
8	a	Aman Das
9	b	Anantavarman
10	d	Nayanars
11	c	Hagiography
12	a	Virashaiva
13	d	Manipravalam
14	a	Hospice
15	d	Mahogany
16	b	Pulp
17	d	Russian
18	c	Orchards
19	a	Prairies
20	b	hot
21	b	Llamas
22	a	Trans- Siberian
23	b	satellites
24	c	Ship
25	a	Mouth
26	c	Bromeliads
27	d	Piranha
28	b	Maloca
29	a	Electronic
30	b	balanced
31	a	Inland letter
32	d	Democracy
33	d	advertisements
34	c	Branding
35	a	Weekly
36	b	Wholesaler
37	c	Hawker
38	a	Producer
39	c	price
40	b	Khabar Lahriya