

Section: General Intelligence

1. In the month of June, the number of girls in a class was half of the number of boys. In July, five more girls took admission, whereas five boys left the school. Now, the number of boys and girls is equal in the class. How many students in total were there in the class in June?

- A. 30
- B. 25
- C. 35
- D. 20

Ans. A

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

- __QDPC__QCQ__CPDQC_DP_PD
- A. QCPCPPQC
 - B. PCPDDPDC
 - C. QCDDDPQD
 - D. QCPDDPQC

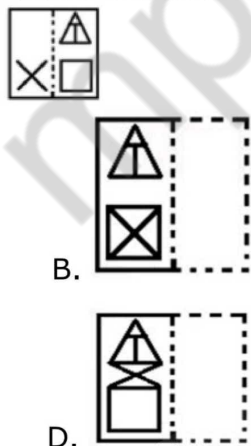
Ans. D

3. Mayank is the son of Chhaya. Chhaya and Deepa are sisters. Gayatri is the mother of Deepa. If Naman is the son of Gayatri, how is Mayank related to Naman?

- A. Nephew
- B. Brother
- C. Father
- D. Son

Ans. A

4. Select the option that depicts how the given transparent sheet of paper would appear if it is folded at the dotted line.



Ans. B

5. 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.

442 : 21

- A. 257 : 16
- B. 323 : 19
- C. 223 : 13
- D. 238 : 14

Ans. A

6. 'A + B' means 'A is the mother of B'. 'A - B' means 'A is the wife of B'.

'A X B' means 'A is the brother of B'.

'A ÷ B' means 'A is the husband of B'.

If $T \div V + Q - J U$, then how is T related to J?

- A. Father-in-law
- B. Son-in-law
- C. Brother
- D. Father

Ans. A

7. Select the term that will come next in the following series.

6, 24, 60, 120, ?

- A. 216
- B. 240
- C. 210
- D. 186

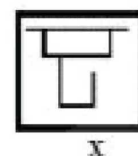
Ans. C

8. 'Chassis' is related to 'Car' in the same way as 'Skeleton' is related to '_____'.

- A. Spinal cord
- B. Organs
- C. Bones
- D. Body

Ans. D

9. Select the option in which the given figure (X) is embedded (rotation not allowed).



- A.
- B.
- C.
- D.

Ans. B

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

(84, 60, 51)

- A. 64, 80, 72
- B. (80, 98, 69)
- C. (72, 56, 62)
- D. (52,64,47)

Ans. B

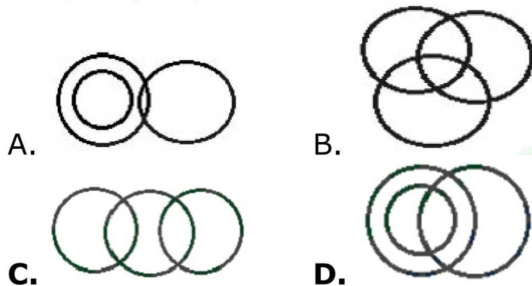
11. Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

- A. Cells
- B. Atoms
- C. Tissues
- D. Organs

Ans. B

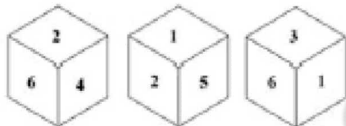
12. Select the Venn diagram that best illustrates the relationship between the following classes.

Men, Players, Fathers.



Ans. D

13. Three different positions of the some dice are shown. Find the number on the face opposite the face showing '3'?



- A. 6
- B. 5
- C. 4
- D. 2

Ans. D

14. Two statements are given, followed by three conclusions 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 conclusions logically follow(s) from the statements.

Statements: All parks are schools. No school is a college.

Conclusions: I. No college is a school. II. Some schools are parks. III. No park is a college.

- A. All the conclusions follow.
- B. Only conclusions II and III follow.
- C. Only conclusions I and II follow.
- D. Only conclusions I and III follow.

Ans. A

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



- A.
- B.
- C.
- D.

Ans. D

16. In a code language, CONVEYER is written as FLQYBBBU. How will PERSONAL be written as in that language?

- A. SBUVLQXO
- B. SBOULQXO
- C. SBUVLQDO
- D. RAUVMQYO

Ans. A

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

- (4, 6, 52)
- A. (3, 5, 34)
 - B. (5, 7, 72)
 - C. (6, 7, 95)
 - D. (7, 9, 120)

Ans. A

18. Which two signs should be interchanged in the following equation to make it correct?

$$868 \div 14 \times 55 - 1064 \div 56 = 117$$

- A. + and \div
- B. \times and \div
- C. + and -
- D. \div and \times

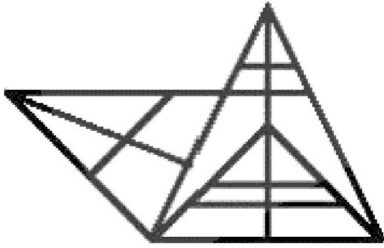
Ans. C

19. If W = 46 and CAT = 48, then how will you code SALE?

- A. 54
- B. 74
- C. 110
- D. 19

Ans. A

20. How many triangles are present in the following figure?



- A. 25 B. 26
C. 7 D. 28

Ans. B

21. Select the correct mirror image of the given combination when the mirror is placed to the right.

R G Y b s Q 7 9 1

- A. **1 9 7 Q s 2 d Y Ɔ R**
B. **1 9 7 Q s 2 p Y Ɔ R**
C. **1 9 7 Q s 2 p Y Ɔ R**
D. **1 9 7 Q s 2 p Y Ɔ R**

Ans. A

22. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

QDUJ : VIZO LPAR : ?

- A. QUEX B. RUFW
C. PUFY D. QUFW

Ans. D

23. Which number will replace the question mark (?) in the following series?

16, 30, 62, 122, 246, ?

- A. 490 B. 488
C. 492 D. 494

Ans. A

24. Select the term that will come next in the following series.

JVD, MTF, PRH, ?, VNL

- A. RPJ B. SPJ
C. SQJ D. RQI

Ans. B

25. 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.

Nephrology : Kidney

- A. Cardiology Liver
B. Ophthalmology : Eyes
C. Pathology : Tissues
D. Zoology : Plants

Ans. B

Section: General Awareness

1. Gahirmatha Sanctuary is the only Sanctuary for _____ in Odisha.

- A. Elephants B. Turtles
C. Crocodiles D. Deer

Ans. B

2. In which state is the Chamera Hydro Electric Project located?

- A. Maharashtra B. Gujarat
C. Himachal Pradesh D. Punjab

Ans. C

3. The newly commissioned 64-foot Vishwaroopa Mahavishnu statue is proposed to be installed at Kothandaramaswamy temple in which city?

- A. Bengaluru B. Chennai
C. Hyderabad D. Madurai

Ans. A

4. Project 'Mausam' which was launched in June 2014, is an initiative of _____

- A. Ministry of Earth Sciences
B. Ministry of Environment and Forests and Climate Change
C. Ministry of Tourism
D. Ministry of Culture

Ans. D

5. During the Gupta Period, gold coins were called by which of the following names?

- A. Rupaka B. Tanka
C. Drama D. Dinaras

Ans. D

6. Which river is known as the 'handmaid' of the Narmada?

- A. Mahi B. Sabarmati
C. Luni D. Tapti

Ans. D

- B. Sanjay Manjrekar
 C. Ashis Ray
 D. Narottam Puri

Ans. C

21. Where is Rhodopsin, also called visual purple, located in the human body?

- A. Hair B. Hand
 C. Nail D. Eye

Ans. D

22. Para Olympic silver Medal winner Girish Gowda has been appointed as Lok Sabha Election Ambassador for the second time of which state?

- A. Tamil Nadu B. Kerala
 C. Karnataka D. Andhra Pradesh

Ans. C

23. The term 'mitochondria' was coined by:

- A. J E Salk
 B. Carl Benda
 C. Charles Laveran
 D. Antonie van Leeuwenhoek

Ans. B

24. The Lok Sabha elected after the 2019 elections is the _____ Lok Sabha.

- A. 18th B. 16th
 C. 15th D. 17th

Ans. D

25. Who among the following was conferred the Mexican 'Orden Mexicana del Aguila Azteca' award in June 2019?

- A. Nirmala Sitharaman
 B. Sushma Swaraj
 C. Pratibha Patil
 D. Smriti Irani

Ans. C

Section: Quantitative Aptitude

1. The ratio of speeds of A and B is 3 : 5. If A takes 24 minutes more than B to cover a certain distance. then how much time (in minutes) will B take to cover the same distance?

- A. 40 B. 36
 C. 20 D. 18

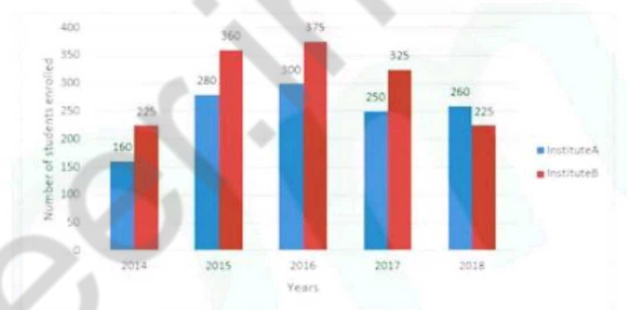
Ans. B

2. In ΔABC , AD. the bisector of $\angle A$. meets BC at D. If $BC = a$. $AC = b$ and $AB = c$. then $BD - DC =$

- A. $\frac{ac}{b+c}$ B. $\frac{a(c+b)}{c-b}$
 C. $\frac{a(c-b)}{c+b}$ D. $\frac{ab}{b+c}$

Ans. C

3. The given Bar Graph presents the number of students enrolled for a vocational course in institutes A and B during a period of five years.



The average number of students (per year) enrolled in B during 2015, 2016 and 2018 is what percentage more than the number of students enrolled in A during 2017?

- A. 28 B. 25
 C. 30 D. 22

Ans. A

4. If $x + \frac{1}{x} = 7$, then $x^3 + \frac{1}{x^3}$ is equal to: A.

- 300 B. 322
 C. 364 D. 343

Ans. B

5. If

$$250\sqrt{2}x^3 - 5\sqrt{5}y^3 = (5\sqrt{2}x - \sqrt{5}y) \times (Ax^2 + Bxy + Cy^2)$$

then the value of $(A + C - \sqrt{10}B)$ is:

- A. 10 B. 5
 C. $5\sqrt{2}$ D. $2\sqrt{5}$

Ans. B

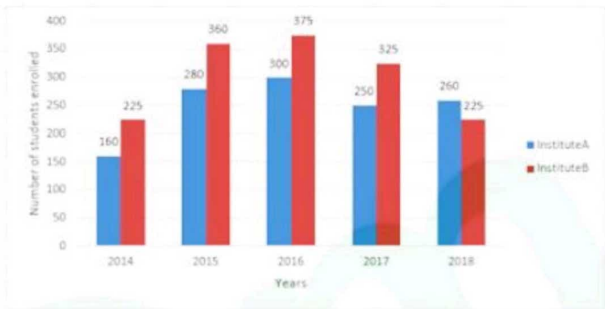
6. Two numbers A and B are in the ratio 5:2, If 4 is added to each number then this ratio becomes 9 : D. If 5 is subtracted from

each of the original numbers. then the ratio of A and B will be:

- A. 3 : 1 B. 8 : 3
C. 7 : 2 D. 4 : 1

Ans. A

7. The given Bar Graph presents the number of students enrolled for a vocational course in institutes A and B during a period of five years.



The total number of students enrolled in A during 2014, 2016 and 2018 is what percentage (correct to one decimal place) of the total number of students enrolled in B during the five years?

- A. 43.4 B. 47.7
C. 44.6 D. 46.8

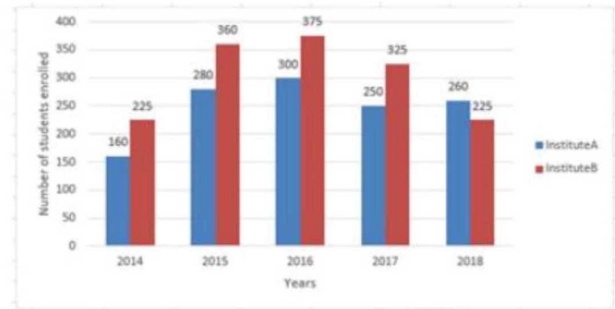
Ans. B

8. A certain sum amounts to Rs.29282 in 4 years at 10% per annum, when the interest is compounded annually. What is the simple interest on the same sum for same time at the same rate?

- A. Rs.8,500 B. Rs.8,000
C. Rs.7,600 D. Rs.8,100

Ans. B

9 The given Bar Graph presents the number of students enrolled for a vocational come in institutes A and B during a period of five years.



What is the ratio of the total numbers of students enrolled in A during 2015 and 2018 to that of students enrolled in B during 2014 and 2016?

- A. 9 : 10 B. 16 : 15
C. 27 : 25 D. 11 : 12

Ans. A

10. A rectangle ABCD is inscribed in a circle with centre O. Its diagonal CA is produced to a point E. outside the circle. ED is a tangent to the circle at D. If AC = 2BC. then what is the measure of $\angle DEC$?

- A. 30° B. 60°
C. 40° D. 45°

Ans. A

11. By selling an article for Rs. 2,300. Rekha gains 25%. If she sells it for Rs.1955. then her loss/gain percent is:

- A. Loss, 6.5% B. Gain, 6.5%
C. Gain, 6.25% D. Loss, 6.25%

Ans. C

12. Let $\triangle ABC \sim \triangle PQR$ and

$$\frac{ar(\triangle ABC)}{ar(\triangle PQR)} = \frac{9}{16}. \text{ If } AB = 12 \text{ cm, } BC = 6$$

cm and AC = 9 cm. then QR is equal to:

- A. 12 cm B. 16 cm
C. 8 cm D. 9 cm

Ans. A

13. A wire is in the shape of a rectangle whose sides are in the ratio 7 : D. It was initially in the shape of a circle of radius. very nearly equal to 3A. 5 cm. The length of smaller side of the rectangle is:

$$\left(\text{Take } \pi = \frac{22}{7}\right)$$

- A. 44 cm B. 36cm

C. 40 cm D. 32cm

Ans. B

14. A and ES together can do a piece of work in 10 days, B and C together can do it in 15 days while C and A together can do it in 20 days. They work together for S days. C alone will complete the remaining work in:

- A. 12 days B. $3\frac{1}{5}$ days
C. 16 days D. $5\frac{1}{3}$ days

Ans. C

15. A man gets a discount of 30% and then 20% on his food bill. How much equivalent single discount does he get?

- A. 44% B. 50%
C. 40% D. 35%

Ans. A

16. If $\sqrt{\frac{1-\cos\theta}{1+\cos\theta}} \times \sqrt{\frac{\operatorname{cosec}\theta - \cot\theta}{\operatorname{cosec}\theta + \cot\theta}} = \frac{1-r}{1+r}$,

then the value of r is:

- A. $\sin\theta$ B. $\operatorname{cosec}\theta$
C. $\sec\theta$ D. $\cos\theta$

Ans. D

17. In a circle with centre O, ABDC is a cyclic quadrilateral with AB as a diameter of the circle. AC and BD produced meet at E. If $\angle CED = 70^\circ$, then what is the measure of $\angle COD$?

- A. 45° B. 60°
C. 30° D. 40°

Ans. D

18 If

$$\frac{1}{1-\sin\theta} + \frac{1}{1+\sin\theta} = 4\sec\theta, \quad 0^\circ < \theta < 90^\circ,$$

then the value of $(3 \cot\theta + \operatorname{cosec}\theta)$ is:

- A. $\frac{5\sqrt{3}}{3}$ B. $4\sqrt{3}$
C. $5\sqrt{3}$ D. $\frac{2\sqrt{3}}{3}$

Ans. A

19. Given four different numbers, the average of first three numbers is four times the fourth number and the average of all the four numbers is 5B. What is the average of the first three numbers?

- A. 39 B. 65
C. 70 D. 64

Ans.

20. The simplified value of

$$\left(\frac{7}{5} \div \frac{7}{10} \text{ of } \frac{3}{4}\right) \div \frac{4}{9} - \left(\frac{7}{16} \div 10\frac{1}{2} \times 7\frac{1}{5}\right) \times \frac{5}{12} \text{ is}$$

- A. $\frac{47}{8}$ B. $\frac{39}{4}$
C. $\frac{49}{8}$ D. $\frac{41}{4}$

Ans. A

21. If one of the angles of a triangle is 64° , then the angle between the bisectors of the other two interior angles is:

- A. 100° B. 122°
C. 96° D. 112°

Ans. B

22. The price of a commodity is increased by 36% and the quantity purchased is decreased by 30%. What is the percentage increase/decrease in the amount spent on the commodity?

- A. 6%, increase B. 4.8%, increase
C. 6%, decrease D. 4.8%, decrease

Ans. D

23. If $x \neq -1, 2$ and 5 . then the simplified value of

$$\left\{ \frac{2(x^3-8)}{x^2-x-2} \times \frac{x^2+2x+1}{x^2-4x-5} \div \frac{x^2+2x+4}{3x-15} \right\}$$

is equal to:

- A. $\frac{2}{3}$ B. 6
C. $\frac{3}{2}$ D. $\frac{2}{3}$

Ans. B

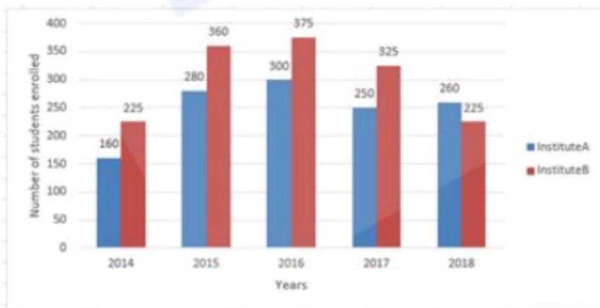
24. The marked price of an article is Rs.400. After allowing a discount of 20%

on the marked price, a shopkeeper makes a profit of Rs.32. His gain percent is:

- A. 9 B. $11\frac{1}{9}$
 C. $12\frac{1}{9}$ D. 8

Ans. B

25. The given Bar Graph presents the number of students enrolled for a vocational course in institutes A and B during a period of five years.



In which year the number of students enrolled in B is x% more, where $25 < x < 30$, than the number of students enrolled in A in the same year?

- A. 2015 B. 2017
 C. 2016 D. 2014

Ans. A

Section: English Language

1. In the sentence identify the segment which contains the grammatical error. Many of China's exports has been redirected to the domestic market in view of the more consumption-driven economy.

- A. has been redirect.
 B. Many of China's exports
 C. in view of the more consumption-driven economy
 D. to the domestic market

Ans. A

2. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

Two senior officers have been entrusted with the responsibility by organize the reception of the guest.

- A. No improvement
 B. for organize
 C. of organizing
 D. to organizing

Ans. C

3. Select the most appropriate synonym of the given word.

ERODE

- A. fix B. disintegrate
 C. preserve D. build

Ans. B

4. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement. He has been solving this sum for a couple of hours but he did not solve it yet.

- A. No improvement B. has not solved it
 C. has not solve it D. had not solved it

Ans. B

5. Select the wrongly spelt word.

- A. glory B. goggles
 C. gobbel D. global

Ans. C

6. Select the word which means. the same as the group of words given. rapid increase in the number or amount of something

- A. proliferation B. promotion
 C. propensity D. paucity

Ans. A

7. Select the word which means. the same as the group of words given.

Living in air

- A. heavenly B. feathery
 C. aerial D. visual

Ans. C

8. Select the most appropriate word to fill in the blank.

He once had a very frightening _____ with a wild bull.

- A. appointment B. encounter
 C. enterprise D. commitment

Ans. B

9. Select the wrongly spelt word.

- A. aggrasive B. agriculture
C. agitation D. agreement

Ans. A

10. Select the most appropriate meaning of the given idiom.

Hanging by a thread

- A. in a sorry or humble state
B. be extremely weak
C. unable to act as desired
D. be in a dangerous situation

Ans. D

11. Select the most appropriate word to fill in the blank.

During the elections political parties try to _____ their rivals in order to gain advantage.

- A. laud B. covet
C. commend D. vilify

Ans. D

12. Select the correct passive form of the given sentence. The merchant brought many gifts for his family from India.

- A. Many gifts were brought by the merchant for his family from India.
B. His family were brought by the merchant for many gifts from India.
C. Many gifts brought by the merchant for his family from India.
D. Many gifts are brought by the merchant for his family from India.

Ans. A

13. Select the most appropriate antonym of the given word.

DENSE

- A. sparse B. jammed
C. crammed D. piled

Ans. A

14. Select the most appropriate meaning of the given idiom.

To shake off

- A. to denounce B. to get rid of
C. to recollect D. to pass off

Ans. B

15. Select the correct indirect form of the given sentence. Bhola said to his friend, "How can I make this charcoal white?"

- A. Bhola asked his friend how he could make that charcoal white.
B. Bhola told his friend how he could make that charcoal white.
C. Bhola asked his friend how can I make this charcoal white.
D. Bhola asked his friend how could he make that charcoal white.

Ans. A

16. In the sentence identify the segment which contains the grammatical error. India's largest car maker is evaluating the launch to a small electric car next year. Ans

- A. next year
B. is evaluating the launch
C. India's largest car maker
D. to a small electric car

Ans. D

17. Select the most appropriate antonym of the given word.

EXAGGERATE

- A. heighten B. amplify
C. compress D. overdo

Ans. C

18. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

- A. But once when Mark disturbed the whole class with his pranks I had to reprimand him.
B. He was in third grade when I taught at Saint Mary's School.
C. All 34 students were dear to me, but Mark Eklund, was one in a million.
D. He had a happy-to-be-alive attitude that made even his occasional mischievousness delightful.

- A. CBDA B. BADC
C. ADBC D. CADB

Ans. A

19. Select the most appropriate synonym of the given word.

ENTANGLE

- A. exclude B. clarify
C. implicate D. release
Ans. C

Comprehension: 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.

People make plastic products by mixing the plastic with additives. The additives (1) _____ it difficult to recycle the plastic. To recycle plastic things, (2) _____ grind them up first, but this new (3) _____ is not easy to use again. A laboratory in California made a new type (4) _____ plastic to deal with this problem. (5) _____ scientists put the new plastic in a high-acid solution, the plastic and the additives break apart. People can then easily reuse the plastic.

Sub Question No: 20

20. Select the most appropriate option for blank No. 1.

- A. make B. makes
C. is making D. was making

Comprehension: 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.

People make plastic products by mixing the plastic with additives. The additives (1) _____ it difficult to recycle the plastic. To recycle plastic things, (2) _____ grind them up first, but this new (3) _____ is not easy to use again. A laboratory in California made a new type (4) _____ plastic to deal with this problem. (5) _____ scientists put the new plastic in a high-acid solution, the plastic and the additives break apart. People can then easily reuse the plastic.

Sub Question No: 21

21. Select the most appropriate option for blank No. 2.

- A. persons B. personnel
C. human beings D. people
Ans. D

Comprehension: 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.

People make plastic products by mixing the plastic with additives. The additives (1) _____ difficult to recycle the plastic. To recycle plastic things, (2) _____ grind them up first, but this new (3) _____ is not easy to use again. A laboratory in California made a new type (4) _____ plastic to deal with this problem. (5) _____ scientists put the new plastic in a high-acid solution, the plastic and the additives break apart. People can then easily reuse the plastic.

Sub Question No: 22

22. Select the most appropriate option for blank No. C.

- A. component B. material
C. thing D. object

Ans.

Comprehension: 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.

People make plastic products by mixing the plastic with additives. The additives (1) _____ it difficult to recycle the plastic. To recycle plastic things, (2) _____ grind them up first, but this new (3) _____ is not easy to use again. A laboratory in California made a new type (4) _____ plastic to deal with this problem. (5) _____ scientists put the new plastic in a high-acid solution, the plastic and the additives break apart. People can then easily reuse the plastic.

Sub Question No: 23

23. Select the most appropriate option for blank No. 4.

- A. to B. with
C. in D. of

Ans. D

Comprehension: 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.

People make plastic products by mixing the plastic with additives. The additives (1) _____ it difficult to recycle the plastic. To recycle plastic things, (2) _____ grind them up first, but this new (3) _____ is not easy to use again. A laboratory in California made a new type (4) _____ plastic to deal with this problem. (5) _____ scientists put the new plastic in a high-acid solution, the plastic and the additives break apart. People can then easily reuse the plastic.

Sub Question No: 24

24. Select the most appropriate option for blank No. 5.

- A. But B. Until
C. When D. Then

Ans. C

25. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

- A. Once Oliver made a big snowman.
B. The fat snowman wore an old top hat and a muffler.
C. Now, it looked very grand indeed and Oliver's friends loved it.
D. It was as big as him but much fatter.

- A. ADBC B. CBAD
C. ACBD D. DCAB

Ans. A