



### AISSEE (2023-24)

Name of the Candidate (in capitals) :.....

#### General Instructions:

1. Answer all questions in the OMR answer sheet only.
2. This question paper booklet contains FOUR sections. **Section "A" MATHEMATICS** contains 50 questions of 3 marks each. **Section "B" GENERAL KNOWLEDGE**, **Section "C" INTELLIGENCE**, **Section "D" ENGLISH** contain 25 questions each, of 2 marks per question. In all, the paper consists of 125 questions for a total of 300 marks.
3. There is **no negative** marking for a wrong answer.

### SECTION "A" MATHEMATICS

Q.1 Find the least number of five digits which when divided by 40, 60, and 75, leave remainders 31, 51 and 66 respectively.

- A. 10196 B. 10199 C. 10191 D. 10197

Q.2 Find unit digit of product  $(173)^{45} \times (152)^{77} \times (777)^{999}$ .

- A. 4 B. 2 C. 8 D. 6

Q.3 A number is first decreased by 20% and then increased by 15%. The number so obtained is 64 less than the original number. The original number is:

- A. 700 B. 800 C. 850 D. 600

Q.4 Geeta scored 30% and failed by 50 marks, while Sandeep who scored 45% marks, got 25 marks more than the minimum marks required to pass the examination.

How many marks did Vimal get if he scored 64% marks ?

- A. 320 B. 436 C. 500 D. 256

Q.5 By selling a T-shirt at Rs. 800, a shopkeeper makes a profit of 25%. At what price should he sell the T-shirt so as to make a loss of 25% ?

- A. Rs. 500 B. Rs. 420 C. Rs. 480 D. Rs. 460

Q.6 If a monkey climbs 1 meter in a minute on a 12 meter long pole and slips 1/2 meter the next minute. In how many minutes will the monkey reach the top?

- A. 44 minute B. 45 minute C. 36 minute D. 40 minute

Q.7 The price list of vegetables in a market is given as follows

Item	Quantity	Price (Rs)
Potato	2 kg	60
Onion	1 kg	35
Tomato	1 kg	40
Chillies	50 g	10
Carrot	250 g	25
Lemon	2 pieces	10

Tapan buys 1 kg potatoes, 1/2 kg onion, 1/2 kg tomatoes, 250 g carrot, 100 g chillies and 4 lemons. He gives a note of Rs. 500 to the shopkeeper. How much money will he get back?

- A. Rs. 231.50 B. Rs. 367.50 C. Rs. 132.50 D. Rs. 376.50

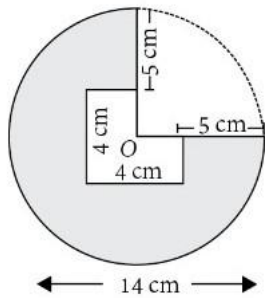
Q.8 A camp of soldiers has food for 400 days. After 40 days, 150 soldiers leave the camp. As a result, the food can last for 480 days from then onwards. What was the initial number of soldiers?

- A. 750 B. 600 C. 450 D. 900

Q.9 Average age of three boys is 22 years. If the ratio of their ages is 6:9:7, then the age of the youngest boy is

- A. 8 years B. 9 years C. 18 years D. 16 years

Q.10 Find the area of the shaded region in the following



- A 28.45 sq. cm    B 113.6 sq. cm  
C 59.8 sq. cm    D 46.88 sq. cm

Q.11 A wheel makes 200 revolutions in covering a distance of 44 km. Find the radius of the wheel.

- A) 30 m    B) 35 m    C) 25 m    D) 40 m

Q.12 The breadth of a rectangular park is 50% of its length. If the perimeter of the field is 900 m, then the area of the park is:

- A. 65,000 m<sup>2</sup>    B. 62,000 m<sup>2</sup>  
C. 45,000 m<sup>2</sup>    D. 68,500 m<sup>2</sup>

Q.13 If the length of a rectangle is increased by 10% and the breadth of the rectangle is decreased by 5%, then find the percentage change in the area.

- A) 4.5% increased    B) 5% increased  
C) 4% decreased    D) 5% decreased

Q.14 If John walks at the speed of 5 km/h, he reaches his office 7 minutes late. However, if he walks at the speed of 6 km/h, he reaches his office 5 minutes early. How far is his office from his home?

- A.9    B.8    C.10    D.6

Q.15 If the ages of Jacob, Max and Samuel are in the proportion 3:5:7 and the average of their ages is 25 years, then find the age of the youngest person.

- (A) 15 years    (B) 10 years  
(C) 7 years    (D) 18 years

Q.16 In a factory, 20 people can make 20 toys in 15 days working 10 hours per day. Then, in how many days can 25 persons make 30 toys working 20 hr per day?

- A) 6 days    B) 9 days  
C) 10 days    D) 12 days

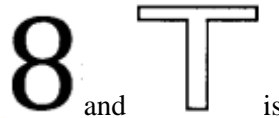
Q.17 Ram invested Rs1712 in a scheme for 4 months at  $37\frac{1}{2}\%$  simple interest per annum. Find the amount received at the end of four months.

- A. 1857    B. 1756    C. 2026    D. 1926

Q.18 A sum becomes Rs. 10650 in 5 years. and Rs. 11076 in 6 years. at simple interest. What is the sum?

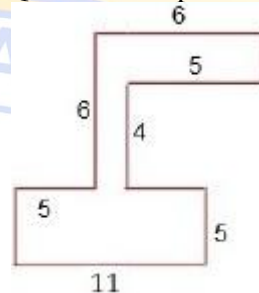
- A. Rs. 8946    B. Rs. 8740  
C. Rs. 8520    D. Rs. 8800

Q.19 The rotational symmetry of order



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

Q.20 Find the perimeter of the following polygon.



- A -54 units    B 56 m  
C 56 units    D 56 cm

Q.21 If three eighth of a number is 141. What will be the approximately value of 32.08% of this number?

- A. 90    B. 120    C. 160    D. 60

Q.22 The edges of a cuboid are respectively 3cm, 4cm and 12 cm. Find the length of the diagonal of cuboid.

- A. 5 cm    B. 19 cm    C. 13 cm    D. 144 cm

Q.23 The length of a train and that of a platform are equal. If with a speed of 90 k/hr, the train crosses the platform in one minute, then the length of the train (in meters) is:

- A.850    B. 525    C. 550    D. 750

Q.24 Which of the following groups of fractions is in descending order?

- A.  $\frac{8}{15}$ ,  $\frac{9}{13}$ ,  $\frac{6}{11}$     B.  $\frac{8}{15}$ ,  $\frac{6}{11}$ ,  $\frac{9}{13}$   
C.  $\frac{9}{13}$ ,  $\frac{6}{11}$ ,  $\frac{8}{15}$     D.  $\frac{6}{11}$ ,  $\frac{8}{15}$ ,  $\frac{9}{13}$

Q.25  $24 - [2.4 - \{0.24 \times 2 - (0.024 - ?)\}] = 22.0584$

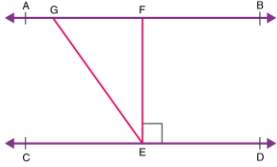
- A. 0.0024    B. 0.024    C. 0.24    D. 0.00024

Q.26 ? % of 400 + 40% of 160 = 17% of 400

A. 4 B. 0.1 C. 1 D. 0.4

Q.27 If  $AB \parallel CD$ ,  $EF \perp CD$  and  $\angle GED = 135^\circ$  as per the figure given below.

The value of  $\angle AGE$  is:



a.  $120^\circ$  b.  $140^\circ$  c.  $90^\circ$  d.  $135^\circ$

Q.28. The angles of a triangle are in the ratio 5 : 3 : 7. The triangle is

(a) a right triangle (b) an acute-angled triangle  
(c) an obtuse-angled triangle (d) an isosceles triangle

Q.29 The sum of the present ages of two persons A and B is 60. If the age of A is twice that of B, find the sum of their ages 5 years hence?

A. 50 B. 60 C. 70 D. 80

Q.30 The ratio of the length and the breadth of a rectangle is 4 : 3 and the area of the rectangle is 6912 sq cm. Find the ratio of the breadth and the area of the rectangle?

A. 1 : 96 B. 1 : 48 C. 1 : 84 D. 1 : 68

Q.31 When 2 is added to half of one-third of one-fifth of a number, the result is one-fifteenth of the number. Find the number?

A.40 B.50 C.60 D.70

Q.32 HCF and LCM two numbers are 12 and 396 respectively. If one of the numbers is 36, then the other number is?

A.36 B. 66 C. 132 D. 264

Q.33 The smallest number when increased by " 1 " is exactly divisible by 12, 18, 24, 32 and 40 is:

A. 1439 B. 1440 C. 1459 D. 1449

Q.34 The smallest number which when divided by 20, 25, 35 and 40 leaves a remainder of 14, 19, 29 and 34 respectively is?

A. 1994 B. 1494 C. 1349 D. 1496

Q.35 Five bells first begin to toll together and then at intervals of 5, 10, 15, 20 and 25 seconds respectively. After what interval of time will they toll again together?

A. 5 min B. 5.5min C. 5.2 min D. None

Q.36 Find the one which does not belong to that group ?

A.36 B. 49 C. 64 D. 81

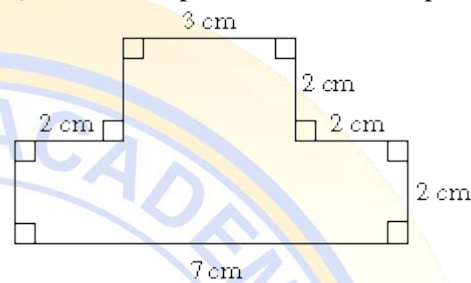
Q.37 Find the one which does not belong to that group ?

A. 525B. 39C. 24D. 426

Q.38 A rectangular field 50 metres long and 42 metres broad contains a rectangular lawn inside it surrounded by a gravel path of uniform width. If the width of the path is 6 m, then the area of the path is

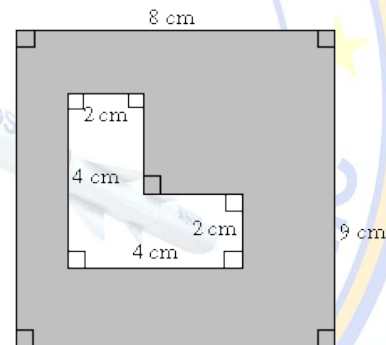
(a) 240 m square (b) 480 m square  
(c) 720 m square (d) 960 m square

Q.39 Find the perimeters of the shapes below.



A.23m B.20cm C.30cm D.None of these

Q.40 Find the area of the shapes below.



A.60m B.62cm C.30cm D.None of these

Q.41 The inverse ratio of 3: 2: 1 is?

A. 1:2:3 B. 2:3:1 C. 3:1:2 D. 2:3:6

Q.42 The sub-duplicate ratio of 1:4 is

A. 1:2 B. 2:1 C. 1:4 D. 1:3

Q.43 The ratio of the number of ladies to gents at a party was 1:2 but when 2 ladies and 2 gents left, the ratio became 1:3. How many people were at the party originally?

A. 36 B. 24 C. 12 D. 6

Q.44 Rs.160 contained in a box consists of one rupee, 50 paise and 25 paise coins in the ratio 4:5:6. What is the number of 25 paise coins?

A.100 B. 115 C. 120 D. 110

Q.45 The sum of two number is 25 and their difference is 13. Find their product.

A. 104 B. 114 C. 315 D. 325

Q.46. In the Roman numeral system, whenever a smaller number precedes a larger number, this means one should.

- A) Subtract; the smaller number from the larger one.
- B) Add the smaller number to the larger one.
- C) Subtract the larger number from the smaller one.
- D) Divide the large number by the smaller one.

Q.47 Find successor of - 16

(a) – 17 (b) 15 (c) None of these (d) – 16

Q.48.The three rational numbers between 3 and 4 are:

- A.12/7,13/7,14/7
- B.11/4,12/4,13/4
- C.5/2,6/2,7/2
- D.13/4,14/4,15/4

Q.49 How many whole numbers are there between -3 and 3 (Including -3 and 3)?

- a) Four b) Zero c) Seven d) Three

Q.50 A man can row upstream at 25 kmph and downstream at 35 kmph, and then find the speed of the man in still water?

A. 60 kmph B. 10 kmph

C. 30 kmph D. 5 kmph

## SECTION "B" GENERAL KNOWLEDGE

Q.51 Who is the space minister of India?

- A. Amit Shah B. Narendra Modi
- C. Rajnath Singh D. None of these

Q.52 Salim Ali National Park?

- a.Uttarakhand b.West Bengal
- c.Uttar Pradesh d.Jammu and Kashmir

Q.53 Which day is celebrated as National Girl Child Day?

- a) 26th January b) 14th February
- c) 24th January d) 14th July

Q.54 Who is the current chairman of ISRO?

- a) K Sivan b) AS Kiran Kumar
- c) S Christopher d) S. Somanath

Q.55 How many member countries did the UNO have on its formation in 1945?

A.45 B.48 C.51 D.54

Q.56 Who of the following was the U.N.O.'s first Secretary General from the African continent?

- A.Kofi Anan
- B.Boutros Boutros-Ghali
- C.Javier Perez de Cuellar
- D.Ban Ki-moon

Q.57 Which Indian classical dance form originated in Tamil Nadu?

- A. Kathakali B. Bharatanatyam

C. Kuchipudi D. Manipuri

Q.58. Consider the following sites:

- (i) Sun Temple, Konark
  - (ii) Pattadakal Temple, Karnataka
  - (iii) Mahabodhi Temple, Bodhgaya
- Which of the above is/are UNESCO heritage site ?
- A. (i) only B.(i) and (ii)
  - C.(i), (ii) and (iii) D.None of the above

Q.59 Sri Ranganathaswamy Temple is dedicated to which deity?

- A. Lord Shiva B. Lord Vishnu
- C. Goddess Durga D. Goddess Lakshmi

Q.60 Kandariya Mahadeva temple is located in which city?

- A. Ujjain B. Khajuraho
- C. Maihar D. Devas

Q.61 Which vitamin is required for synthesis of the blood clotting proteins?

- a) Vitamin A b) Vitamin D
- c) Vitamin E d) Vitamin K

Q.62 The Nobel prize for Economics was instituted in

- a) 1968 b) 1966
- c) 1967 d) 1965

Q.63 Consider the following statements:

Nobel Prize is sometimes given to the outstanding persons in the related fields posthumously. The Nobel Prizes in Physics, Chemistry, Physiology or Medicine, Literature and peace were first awarded in 1901.

Which of the statements given above is/are correct?

- a) Both 1 and 2      b) 1 only  
c) 2 only              d) Neither 1 nor 2

Q.64 Dhanwantari award is conferred in the field of :

- a) Agriculture              b) Sports  
c) Indian Philosophy      d) Medical Science

Q.65 What is the minimum age for membership to Rajya Sabha?

- a) 35 years              b) 30 years  
c) 20 years              d) 25 years

Q.66 At present the Rajya Sabha consists of \_\_\_\_\_ members.

- a) 250                      b) 238  
c) 245                      d) 240

Q.67 When was the national flag adopted by the constituent assembly?

- a) 22nd July 1947      b) 26th January 1950  
c) 26th January 1948      d) 15th August 1950

Q.68 What is the full Form of NCC?

- a.Naxa Cadet Corps  
b.National Candidate Corps  
C.National Cadet Corps  
d.Non-Cadet Corps

Q.69 What is the S.I unit of frequency?

- A.Diopter                  B.Second  
C.Hertz                    D.Meter

Q.70 Which device is used for measuring air pressure?

- A.Ammeter                B.Voltmeter  
C.Seismograph          D.Barometer

Q.71 In India, the maximum area is covered by which type of soil?

- A. Lateritic soil          B. Red soil  
C. Black soil              D. Alluvial soil

Q.72 Vice-President office in India is modeled on the line of which country?

- a)the UK                    b)the USA  
c)Canada                  d)Australia

Q.73 Which of the following Article has provided the right to education is a fundamental right for children aged between 6 to 14;

- a)Article 21                b)Article 21 A  
c)Article 22                d)Article 25

Q.74. The youngest mountain range in the world is:

- A. Western Ghats        B. Himalayas  
C. Aravallis                D. Andes

Q.75. Which of the following is a set of bacterial diseases?

- (a) Malaria, poliomyelitis, mumps  
(b) Mumps, cholera, typhoid  
(c) Plague, Leprosy, Diphtheria  
(d) Measles, Tuberculosis, Tetanus

## SECTION "C" INTELLIGENCE

Q.76. Pigeon : Peace :: White flag : ?

- A. Friendship    B. Victory    C. Surrender    D. War

Q.77. Wax : Grease :: Milk : ?

- A.Drink    B. Ghee    C. Curd    D. Protein

Q.78. If P + Q means P is the brother of Q; P x Q means P is the wife of Q and P % Q means P is the daughter of Q then which of the following means D is the uncle of A?

- A. A % B x C + D      B. A x B + C % D  
C. A x B + C % D      D. None of these

Q.79 M is the father of N who is the son of V. In order to know the relation of M to P, which of the statement/statements is/are necessary?

P is the brother of V.

The daughter of N is the granddaughter of V.

- A. Only (1)                  B. Only (2)  
C. Either (1) or (2)      D. (1) and (2) both

Q.80 If Thursday was the day after the day before yesterday five days ago, what is the least number of

days ago when Sunday was three days before the day after tomorrow?

- A. Two B. Three C. Four D. Five

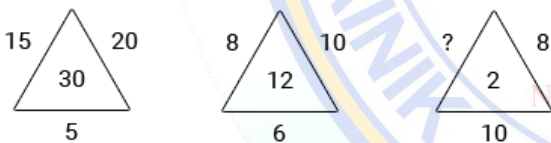
Q.81 A postman was returning to the post office which was in front of him to the north. When the post office was 100 meters away from him, he turned to the left and moved 50 meters to deliver the last letter at Shantivilla. He then moved in the same direction for 40 meters, turned to his right and moved 100 meters. How many meters was he away from the post office?  
A. 0 B. 90 C. 150 D. 100

Q.82 In a certain code language if the word MIRAGE is coded as ZRJBNI, then how is the word INTRUDE coded in that language?  
A. RBPHNJJL B. RDPIPAJ  
C. RBNJPHJ D. RBJLPHJ

Q.82. In a certain code, '247' means 'spread red carpet'; '256' means 'dust one carpet' and '234' means 'one red carpet'. Which digit in that code means 'dust'?  
A. 2 B. 3 C. 5 D. 6

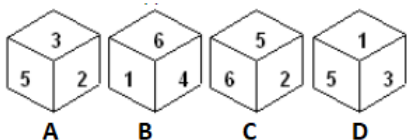
Q.83 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z  
Four of the following five letter groups of the English alphabet given above are alike in a certain way and so form a group. On the basis of their position in English alphabet, which is the one that does not belong to the group?  
A. DKG B. FMI C. MTP D. JQM

Q.84 Insert the missing number in each of the following

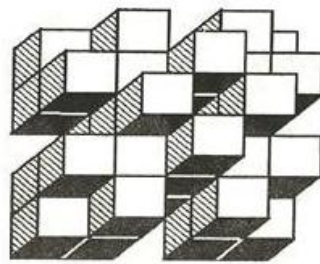


- A. 4 B. 6 C. 22 D. 12

Q.85. What number is opposite to 5?



Q.86 Count the number of Cubes in each of the following figures :



- A. 28 B. 36 C. 40 D. 42

Q.87 REASONING (water image)



Q.88 Choose the figure which is different from the rest.

Problem Figure

M	U	O	A	I
(a)	(b)	(c)	(d)	(e)

Q.89 If Jan 1, 2006 was Sunday. What was the day of the week Jan 1, 2010  
A. Wednesday B. Thursday  
C. None of these D. Tuesday

Q.90 Find the angle between minute hand hour hand at 11 : 50 AM  
A. 55° B. 22.5° C. 15° D. None of these

Q.91 P, Q, R, S, T, U, V and W are sitting round the circle and are facing the centre: P is second to the right of T who is the neighbour of R and V. S is not the neighbour of P. V is the neighbour of U. Q is not between S and W. W is not between U and S. Which two of the following are not neighbours?  
A. RV B. UV C. RP D. QW

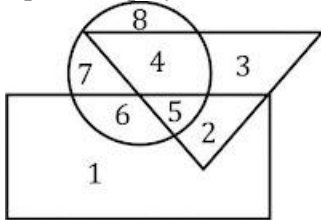
Q.92 Six friends P, Q, R, S, T and U are sitting around the hexagonal table each at one corner and are facing the centre of the hexagonal. P is second to the left of

U. Q is neighbour of R and S. T is second to the left of S.

Who is the fourth person to the left of Q ?

- A. P B. U C. R D. Data inadequate

Q.Directions (93-95): In the following questions, answers are to be based on the diagrams given below, where the triangle represents doctors, the circle represents players and the rectangle represents artists.



Q93. Which numbered space in the diagram represents doctors who are also players and artists?

- (a) 2 (b) 3 (c) 4 (d) 5

Q94. Which number represents artists who are also players only?

- (a) 4 (b) 6 (c) 7 (d) 8

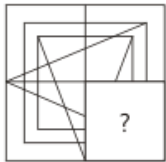
Q95. Which number represents artists who are neither players nor doctors?

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

Q.96. Arrange the given words as in a dictionary and tick the one that come second.

- (a) Omnipresent (b) Omission  
(c) Obligation (d) Orientation

Q.97 Identify the figure that completes the pattern.



A.



B.



C.



D.

Q.98 Statement:

All pins are rods.

Some rods are chains.

All chains are hammers.

Conclusions:

I. Some pins are hammers. II. Some hammers are rods

III. No pin is hammer.

- A.Only I follows B.Only II follows

- C.Only III follows D.Only either I or III & II follows

Q.99. One year ago, the ratio of Yamini and Gamini's was 6 : 7 respectively. Four year hence, the ratio would become 7 : 8. Find the age of Gamini ?

- A.30 years B.32 years  
C.36 years D.40 years

Q.100. In each of the following question, arrange the words in a meaningful, logical order and then select the appropriate sequence from the alternative given below for each of the groups of words.

(i) Table (ii) Tree (iii) Wood (iv) Seed (v) Plant

A.(iv), (v), (iii), (ii), (i) B.(iv), (v), (ii), (iii), (i)

C.(i), (iii), (ii), (iv), (v) D.(i), (ii), (iii), (iv), (v)

## SECTION "D" ENGLISH

Read the passage below and answer the following questions:

Bachendri's story stands as an example of how going against your family's wishes can be hard but important from time to time. Raised surrounded by the Himalayas towering around her hometown, she intended to climb it one day and focused on becoming a professional mountain climber. Moreover, she received a lot of discouragement for being a girl trying to take on such a physically challenging path. This only fuelled her passion; she was selected to be part of an expedition to the top of Mt. Everest. She braved being buried in snow, fierce icy winds and even losing sensation in her toes. She was one of the few who finally made it to the top creating history by being the first Indian woman to reach the summit.

101) Which mountains surrounded Bachendri's hometown?

- a) The Himalayas b) The Alps  
c) The Mountains d) Mt. Everest

102) What was the childhood dream of Bachendri?

- a) To become an athlete  
b) To climb the mountains one day  
c) To become a coach  
d) To become a teacher

103) What did she want to become on growing up?

- a) Doctor b) Professional mountain climber  
c) Engineer d) An athlete

104) What was the reaction of Bachendri's family regarding her choice of career?

- a) They were happy                      b) They supported her  
c) Her family was not happy      d) None of these

105) Why did she receive a lot of discouragement?

- a) Because she was a girl  
b) Because she was weak  
c) Because she was incapable  
d) Because her family did not support

Choose the correct option.

106. The train will come.....

- (A) Soon            (B) Right  
(C) Fastly          (D) None of these

107. ....the old man is died.

- (A) Wow            (B) Alas  
(C) Hurrah        (D) Hey

108. Childrens are playing outside. (Choose the incorrect word)

- (A) Childrens    (B) Are  
(D) Outside      (C) Playing

109. I.....understand anything she said.

- (A) Can't            (B) Could  
(C) Can              (D) Couldn't

110..... of them is interested in watching movie.

- (A) All              (B) Some  
(C) Any              (D) None

111. There is a temple..... my house.

- (A) Besides        (B) Beside (C) From        (D) At

112.Select the most appropriate ANTONYM of the given word.

Fragile

- (a) Feeble    (b) Robust    (c) Simple    (d) Bitter

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

Study of human development.

- (a) Philology    (b) Theology  
(c) Acoustics    (d) Anthropology

114. Select the synonym of the given word. Dawn

- (a) Sunrise        (b) Dusk (c) Twilight    (d) Gloom

115.Select the most appropriate meaning of the idiom.

A bed of roses

- (a) To put something on hold

(b) A really good invention

(c) An easy and happy existence

(d) To improvise

116.Select the INCORRECTLY spelt word.

- (a) Precautions  
(b) Promiscuous  
(c) Propinquity  
(d) Propensity

117.Can you hear what he is .....?

- A.Saying            B.Speaking  
C.Telling            D.Talking

Choose the correct tense to go in the gap.

118. When you phoned, I ..... a shower.

- A.was having        B.am having  
C.had                  D.none of these

119.This time next year I ..... in London for 7 years.

- A.will have been living    B.will have lived  
C.will be living              D.none of these

120.This phone is very expensive you should use it with utmost care.

- (A) Though        (B) For (C) So        (D) That

121. Neither of these books.....useful.

- (A) Is                (B) Are  
(C) Both a and b    (D) None of these

122.When I reached the station, I found Shashi..... for me.

- (A) Wait    (B) Waits    (C) Waiting    (D) Waited

123.By July 2023, she years..... in this firm for eleven

- (A) Will work                      (B) Will have been working  
(C) Will be working              (D) Has been working

124. I am a happy person.....?

- (A) Amn't I    (B) Am I    (C) Ain't I    (D) Isn't I

125He is the.....of the two singers.

- (A) Best    (B) Good    (C) Better    (D) All of these

# Best of Luck