

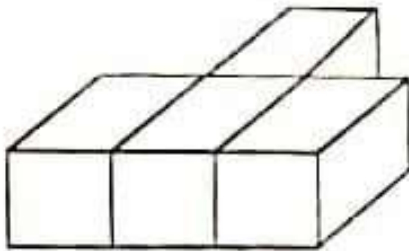
Instructions : Each question has four options. There is only one correct answer to each question. Choose the **Correct/Most Appropriate** option and darken/blacken the corresponding circle on the OMR Answer Sheet.

SECTION - 'A' : MATHEMATICS

001. If surface area and volume of a cube are numerically equal, then the side of the cube is :

- (1) 4 unit
- (2) 5 unit
- ☒ (3) 6 unit
- (4) 8 unit

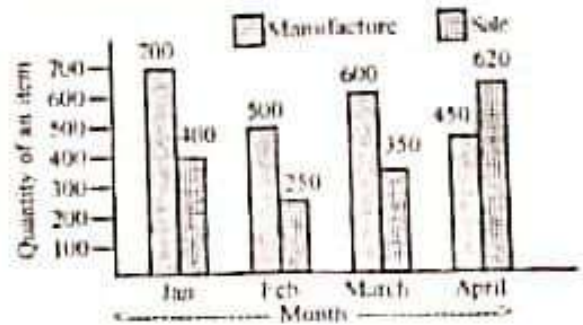
002. Which one of the following options is a top view of the below given figure?



- (A)
- (B)
- (C)
- (D)

- (1) (A)
- (2) (B)
- (3) (C)
- ☒ (4) (D)

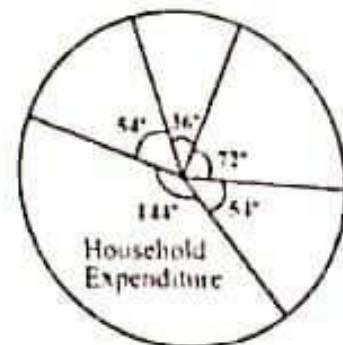
003. Following Bar-graph represents the manufacture and sale of an item by a firm in 4 months :



Total sale during the given months is what percent of the total manufacture during the month :

- (1) 70%
- ☒ (2) 72%
- (3) 74%
- (4) 75%

004. Suresh earns ₹ 72000 per month. Distribution of his monthly earning is presented in the following pie-chart :



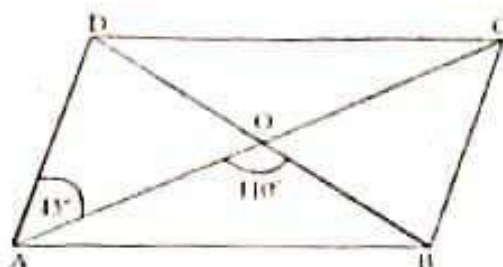
How much money he spends on household expenditures every month?

- (1) ₹ 32000
- (2) ₹ 30800
- ☒ (3) ₹ 28800
- (4) ₹ 28500

005. The lateral surface area of a cube is 256 m^2 . The volume of the cube (in m^3) is :

- (1) 64
- (2) 256
- (3) 216
- (4) 512

006. In the figure, diagonals AC and BD of a parallelogram ABCD intersect each other at point O, such that $\angle DAC = 45^\circ$ and $\angle AOB = 110^\circ$. The measure of $\angle DBC$ is :



- (1) 45°
- (2) 55°
- (3) 50°
- (4) 65°

007. If the length of a rectangle is $\left(\frac{2}{3}a^2 + \frac{2}{9}\right)\text{m}$ and its breadth is $\left(a^2 + \frac{1}{6}\right)\text{m}$, then the area of the rectangle (in m^2) is :

- (1) $\frac{2}{3}a^4 + \frac{1}{3}a^2 + \frac{2}{27}$
- (2) $\frac{2}{3}a^4 + \frac{1}{18}a^2 + \frac{1}{27}$

(3) $\frac{2}{3}a^4 + \frac{1}{3}a^2 + \frac{1}{27}$

(4) $\frac{2}{3}a^4 + \frac{2}{9}a^2 + \frac{1}{27}$

008. A wall of length $(5x + 2)$ unit and height $6x$ unit has a square window of side $2x$ unit and a door of width $2x$ unit and height $3x$ unit. Which of the following algebraic expressions gives the area of the wall to be painted?

- (1) $4x(5x + 2)$
- (2) $5x(2x + 3)$
- (3) $20x^2 + 3$
- (4) $4x(5x + 3)$

009. If the height of a triangle is $(4x^2 + 6)$ unit and the base of that triangle is $(3x^2 - 4)$ unit, then the area of the triangle in sq. unit is :

- (1) $2(6x^4 + x^2 - 6)$
- (2) $6x^4 + x^2 - 12$
- (3) $12x^4 - 2x^2 - 6$
- (4) $6x^2 + x - 12$

010. What should be added to $4c(-a - 2b + c)$ to obtain $3c(a - b + c) - 2c(a + b - c)$?

- (1) $5ac - 3bc + 9c^2$
- (2) $5ac + 3bc + c^2$
- (3) $-3ac - 13bc + 9c^2$
- (4) $-3ac - 3bc - c^2$

011. Find the area of a closed figure ABCO, where A(0, 3), B(4, 3), C(4, 0) and O is the origin :

(1) 18 unit²

☒ (2) 12 unit²

(3) 6 unit²

• (4) 24 unit²

012. Four times the area of the curved surface of a cylinder is equal to 6 times the sum of the areas of its bases. If its height is 12 cm then its curved surface area correct to two decimal places is :

☒ (1) $\pi = \frac{22}{7}$

(2) 301.71 cm²

☒ (3) 603.43 cm²

(4) 452.57 cm²

• (5) 905.14 cm²

013. The cost of tiling 24 m wide rectangular plot is ₹ 39000. If the rate of tiling is ₹ 25 per sq. m, then the length of the plot is :

(1) 49 m

• (2) 63 m

(3) 60 m

☒ (4) 65 m

014. A square of side 60 m and rectangle of length 80 m have the same perimeter. The difference in their areas is :

(1) 200 m²

• (2) 600 m²

☒ (3) 400 m²

(4) 500 m²

015. By what number should $(-8)^{-3}$ be multiplied so that the product is equal to $(-6)^{-3}$?

(1) $\frac{3^2}{2^4}$

(2) $\frac{2^4}{3^2}$

• (3) $\frac{3^3}{4^3}$

☒ (4) $\frac{4^3}{3^3}$

016. In the following three-digit numbers, values of A and B are :

$$\begin{array}{r} B \ A \ A \\ + B \ A \ A \\ \hline 3 \ A \ 8 \end{array}$$

(1) A = 9, B = 2

(2) A = 3, B = 2

(3) A = 4, B = 1

• ☒ (4) A = 9, B = 1

017. A three-digit number 2a3 is added to the number 326 to give a three-digit number 5b9 which is divisible by 9. The value of (b - a) is :

(1) 4

• ☒ (2) 2

(3) 1

(4) 3

018. Read the following statements carefully and choose the correct option :

Statement I : Number of the form $3N+2$ will leave remainder 2 when divided by 3.

Statement II : If N upon dividing by 5 leaves remainder 3 and N upon dividing by 2 leaves remainder 0, then N upon dividing by 10 leaves remainder 4.

(1) Statement I is false and statement II is true

☒ (2) Statement I is true and statement II is false

(3) Both statements I and II are true

(4) Both statements I and II are false

019. Read the following statements carefully and choose the correct option :

Statement I : Triangle is a polygon whose sum of exterior angles is double the sum of its interior angles.

Statement II : If the sum of interior angles of a polygon is double the sum of its exterior angles, then it is a hexagon.

Statement III : If the interior angles of a triangle are in the ratio 1 : 2 : 3, then the ratio of its exterior angles is 3 : 2 : 1.

☐ (1) Only statement III is true

☒ (2) Only statement III is false

(3) All statements I, II and III are true

(4) All statements I, II and III are false

020. 7 men can do a piece of work in 16 days. The number of men required to do double the work in 8 days is :

(1) 14

(2) 24

☒ (3) 28

(4) 32

021. A jar contains 6 red, 5 green, 4 blue and 5 yellow marbles of the same size. What is the probability that a red colour marble is chosen at random?

☐ (1) $\frac{3}{5}$

☒ (2) $\frac{3}{10}$

(3) $\frac{2}{5}$

(4) $\frac{7}{10}$

022. A bag contains 16 cards bearing numbers from 1 to 16. One card is chosen at random. The probability that the chosen card bears a prime number is :

(1) $\frac{5}{8}$

☐ (2) $\frac{7}{16}$

(3) $\frac{5}{16}$

☒ (4) $\frac{3}{8}$

023. Read the following statements carefully and choose the correct option :

Statement I : For all rational numbers x and y , $x - y = y - x$.

Statement II : For all rational numbers x , y and z , $x + (y \times z) = (x + y) \times (x + z)$.

- (1) Statement I is true and Statement II is false
- (2) Statement I is false and Statement II is true
- (3) Both statements I and II are true
- (4) Both statements I and II are false

024. A can dig a trench in 12 days, B can dig it in 16 days and C can dig it in 18 days. If they dig the trench, working together and get a sum of ₹ 5800 for it, then share of A in the sum is :

- (1) ₹ 2000
- (2) ₹ 1600
- (3) ₹ 2400
- (4) ₹ 2800

025. A wire of length 88 cm was bent into the shape of a circle and then into a square. Which figure encloses more

area and by how much? $\left(\text{Use } \pi = \frac{22}{7} \right)$

- (1) Square by 640 cm^2
- (2) Square by 320 cm^2
- (3) Circle by 132 cm^2
- (4) Circle by 264 cm^2

026. There is a circular garden and a path runs outside it along its boundary. A man walks around it only once keeping close to the edge. His each step is 66 cm long and he takes exactly 400 steps to go around the garden. The diameter of the

garden is : $\left(\text{Use } \pi = \frac{22}{7} \right)$

- (1) 840 cm
- (2) 42 m
- (3) 420 cm
- (4) 84 m

027. A train runs between two stations A and B. While running from A to B, its average speed is 60 km/hr and when running from B to A, its average speed is 90 km/hr. The average speed of the train during the two-way journey is :

- (1) 72 km/hr
- (2) 75 km/hr
- (3) 78 km/hr
- (4) 60 km/hr

The weights (in kg) of 8 children are 13.4, 10.6, 12.7, 17.2, 14.3, 15, 16.5, 9.8. Their median weight (in kg) is :

- (1) 13.5
- (2) 15.75
- (3) 13.85
- (4) 15.5

029. The average height of 30 boys was calculated to be 150 cm. It was found later that for one boy 165 cm was wrongly copied as 135 cm during computation of the average. The correct average is:

- (1) 149 cm
- ☒ (2) 151 cm
- (3) 153 cm
- (4) 152 cm

030. A polyhedron has 40 faces and 60 edges. The number of vertices of the polyhedron is:

- (1) 18
- (2) 20
- ☒ (3) 22
- (4) 24

031. The population of a city was 66,150 in 2005. If the population increased at the rate of 5% per annum, then the population in 2003 was:

- (1) 61,250
- ☒ (2) 60,000
- (3) 62,150
- (4) 63,400

032. A sum of money invested at $8\frac{1}{3}\%$ per annum simple interest, amounted to ₹ 2475 in 1 year 9 months. What will it amount to in 2 years at 5% per annum?

- (1) ₹ 2260
- (2) ₹ 2160
- ☒ (3) ₹ 2376
- (4) ₹ 2476

033. For the given figure, which of the following is true?



- (1) $c = 180^\circ - \frac{a+b}{2}$
- (2) $c = c + g$
- ☒ (3) $c = c + (180^\circ - g)$
- (4) $c = 180^\circ - \frac{a+b}{2}$

034. $\sqrt[3]{343} + 3 \times \sqrt{289} - \sqrt[3]{729} =$

- (1) 8
- (2) 3
- ☒ (3) 7
- (4) 9

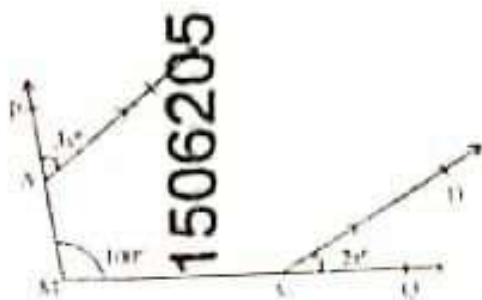
035. The least square number which is exactly divisible by 3, 4, 5, 6 and 8 is

- (1) 5184
- (2) 1444
- (3) 1600
- ☒ (4) 3600

036. The difference of two numbers is 988. If the cube root of the smaller of the two numbers is 7, then the cube root of the larger number

- (1) 12
- (2) 13
- ☒ (3) 11
- (4) 25

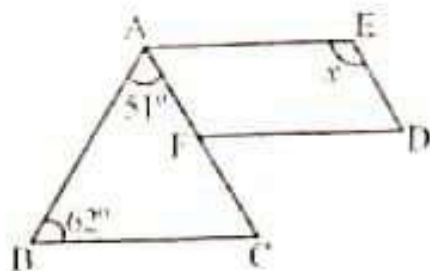
037.



In the above figure, $AB \parallel CD$. The value of x is :

- (1) 30
- (2) 20
- (3) 10
- (4) 40

038. In the given figure, $FD \parallel BC \parallel AE$ and $AC \parallel ED$



The value of x is :

- (1) 129°
- (2) 67°
- (3) 62°
- (4) 113°

039. Rahul walks 12 m towards North from his house and turns West to walk 35 m to reach the market. While returning, he walks diagonally from market to reach back to his house. The distance he travelled while returning is :

- (1) 39 m
- (2) 37 m
- (3) 47 m
- (4) 43 m

040. The sum of ₹ 300 is divided between A and B such that twice of A's share is less than 3 times B's share by ₹ 300. B's share is :

- (1) ₹ 160
- (2) ₹ 180
- (3) ₹ 120
- (4) ₹ 150

041. The perimeter of a rectangle is 240 cm. If its length is increased by 10% and its breadth is decreased by 20%, the perimeter remains the same. The length and breadth of the original rectangle respectively are :

- (1) 75 cm, 45 cm
- (2) 80 cm, 40 cm
- (3) 90 cm, 30 cm
- (4) 100 cm, 20 cm

042. A man bought a refrigerator for ₹ 15200 and spent ₹ 300 as labour charges and ₹ 500 on its transportation. At what price should he sell it to make a gain of 15%?

- (1) ₹ 18355
- (2) ₹ 16560
- (3) ₹ 18400
- (4) ₹ 18640

043. In a city, 40% of the adults are uneducated while 85% of the children are educated. If the ratio of the number of adults to that of the children is 2 : 3, then what percent of the population is educated?

- (1) 60%
- (2) 75%
- (3) 65%
- (4) 80%

044. Beena bought 160 kg apples at ₹ 50 per kg. She sold 70% of the apples at ₹ 35 per kg and the remaining at ₹ 35 per kg. Beena's gain percent on the whole is

- (1) 21%
- (2) 19%
- (3) 30%
- (4) 16%

045. If $a:b:c = \frac{1}{3}:\frac{1}{6}:\frac{1}{9}$, then the value of

$$\frac{a^2 + b^2}{b^2 - c^2} \text{ is :}$$

- (1) 12
- (2) 6
- (3) 3
- (4) 9

046. The marked price of an article is ₹ 1500. A shopkeeper gives a discount of 10% and still makes a profit of 25%. The cost price of the article is :

- (1) ₹ 1180
- (2) ₹ 1260
- (3) ₹ 1140
- (4) ₹ 1240

047. In a camp with 200 persons, there is enough food for 42 days. How long the food will last if 40 more persons join the camp on the first day?

- (1) 40 days
- (2) 35 days
- (3) 32 days
- (4) 36 days

048. Study the following tables carefully and choose the correct option :

Table A					
x	3	6	15	20	30
y	12	24	45	60	120

Table B					
x	4	7	10	16	6
y	24	42	60	96	36

- (1) In table A, x and y are in direct proportion and in table B, x and y are not in direct proportion
- (2) In table A, x and y are not in direct proportion and in table B, x and y are not in direct proportion
- (3) In both tables A and B, x and y are in direct proportion
- (4) In both tables A and B, x and y are not in direct proportion

049. Which of the following vary inversely?

- (1) Speed and distance covered
- (2) Speed and time taken
- (3) Distance covered and taxi fare
- (4) Distance travelled and time taken

050. Five bells begin to toll together and toll again at intervals of 6, 5, 7, 10 and 12 seconds respectively. How many times will they toll together in one hour excluding the one at the start?

- (1) 8 times
- (2) 7 times
- (3) 11 times
- (4) 9 times

Instructions : Each question has four options. There is only one correct answer to each question. Choose the Correct/Most Appropriate option and darken/blacken the corresponding circle on the OMR Answer Sheet.

SECTION- 'B' : INTELLIGENCE

051. Find the missing number (?) in the given series :

1, 2, 3, 5, 8, 13, 21, ?

- (1) 28
- (2) 32
- (3) 33
- ✓ (4) 34

052. Find the missing term (?) in the following letter-number series :

3F, 6G, 11I, 18L, ?

- (1) 25N
- ✓ (2) 27P
- (3) 25P
- (4) 27N

053. There is a certain relationship between two given words on the left side of (:). Choose correct alternative for the missing term (?) having the similar relationship with the third term.

Thermometer : Temperature ::

Odometer : ?

- (1) Pressure
- (2) Current
- (3) Speed
- (4) Humidity

054. Study the following information carefully and identify the appropriate 4-digit number :

- Its tens place digit is 5 less than the digit at ones place
- Its ones place digit is the largest 1-digit even number.
- Its hundreds place digit is the ones place digit of (758-354).
- Its thousands place digit is the sum of the digits at its tens place and hundreds place.

- (1) 9548
- (2) 8358
- ✓ (3) 7438
- (4) 7348

055. Find the odd one out among the following words :

- ✓ (1) Rain
- (2) River
- (3) Pond
- (4) Lake

056. Complete the following analogy :

DE : 9 :: FG : ?

(1) 11

☒ (2) 13

(3) 15

(4) 14

057. Arrange the following in a logical and meaningful order :

(A) Doctor

(B) Recovery

(C) Illness

(D) Consultation

(E) Treatment

Choose the correct option from the following alternatives :

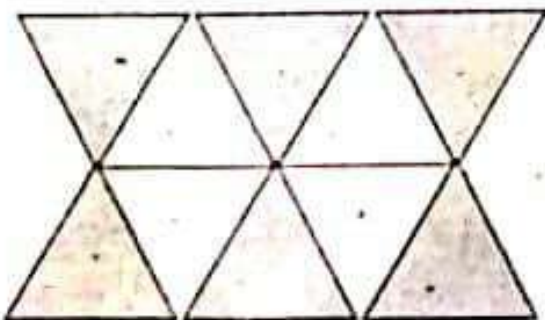
(1) B, A, E, D, C

(2) C, A, E, D, B

☒ (3) C, A, D, E, B

(4) C, A, D, B, E

058. How many triangles are there in the given figure?



(1) 15

☒ (2) 10

(3) 12

☒ (4) 14

059. Find the missing term in the following series :

eba, cbaa, cbbaa, ? cbbbaaa,

ccbbbaaa :

(1) ccbaaa

☒ (2) cbbbaa

☒ (3) ccbbba

(4) ccbbba

060. Dheekshitha is making the given calendar for the bulletin board. Which day of the week should be on 25th January 20xx?

January 20xx						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11		

☒ (1) Monday

(2) Tuesday

(3) Wednesday

☒ (4) Thursday

061. Arrange the following words in order in the dictionary :

- (A) Conservation
- (B) Conscience
- (C) Consequence
- (D) Consume
- (E) Conscientiousness

Choose the correct option from the following :

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

062. Find the missing number-pair () in the given series :

(2, 3), (3, 5), (5, 7), (7, 11), (11, 13),

(,)

- (1) (13, 15)
- (2) (13, 19)
- (3) (13, 17)
- (4) (17, 19)

063. Find the odd one out among the following terms :

- (1) IFC
- (2) NKH
- (3) PMJ
- (4) ROM

064. Complete the following analogy :

3 : 30 :: 6 : ? : 7 : 346

- (1) 36
- (2) 39
- (3) 216
- (4) 219

065. If the code for 'RIGHT' is 'SJHIU', then what is the code for 'FINDS'?

- (1) GJOET
- (2) GINET
- (3) GIOET
- (4) GJMEU

066. In the following arrangements of letters, how many 'G' are there which are followed by 'K' and preceded by N?

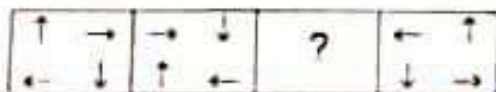
A K G L M N D N K G C S N G
K T G K G N D Z P U N G K X
G :

- (1) 4
- (2) 3
- (3) 2
- (4) 1

067. Choose the number-group which is different from others :

- (1) [26, 4, 22]
- (2) [45, 9, 36]
- (3) [64, 14, 54]
- (4) [99, 25, 74]

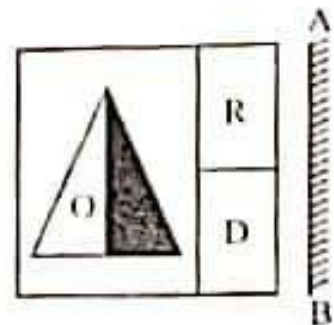
068. Replace the question mark (?) in the following figural series :



Choose the correct answer from the options given below :

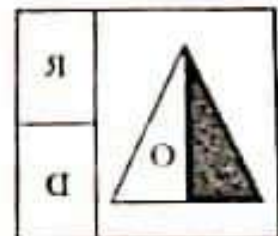
- (1)
- (2)
- (3)
- (4)

069. Select the correct mirror image of the following figure, where the mirror is placed on the line AB as shown below :



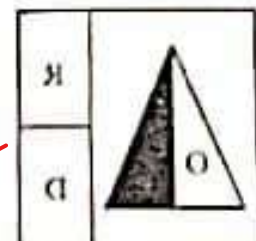
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1506205 (1)



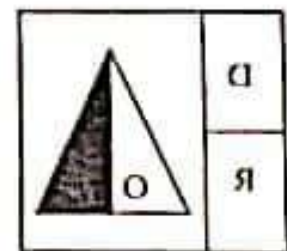
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(2)

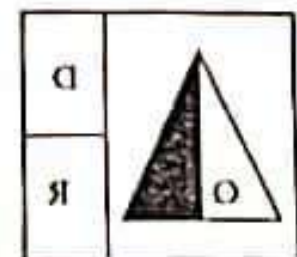


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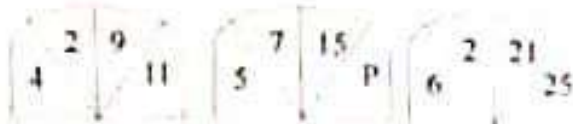
(3)



205



070. A set of figures carrying certain numbers is given. The numbers in each set follow a similar pattern, based on that pattern find the value of 'P' :



- (1) 12
- (2) 25
- ☒ (3) 13
- (4) 17

071. Replace the question mark (?) in the following figural series :



- (1)
- ☒ (2)
- (3)
- (4)

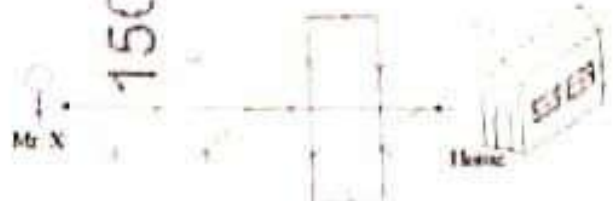
072. According to a certain code if, PEDESTRIAN = 30, ACCIDENT = 24, and DRIVER = 18, then TRAFFIC is equal to :

- (1) 7
- (2) 14
- ☒ (3) 28
- (4) 21

073. If the cost of 3 pencils and 1 sharpener is ₹ 24, the cost of 2 sharpeners and 2 eraser is ₹ 14 and the cost of 3 erasers is ₹ 9, then the cost of 1 pencil is :

- (1) ₹ 4
- ☒ (2) ₹ 7
- (3) ₹ 3
- (4) ₹ 5

074. How many ways can Mr. X reach his home?



- (1) 3
- ☒ (2) 6
- (3) 9
- (4) 9

075. Anita is older than Chetna. Babita is older than Chetna but younger than Anita. Erric is younger than Divya and Chetna. Chetna is older than Divya. Who is in the middle with respect to their ages?

- (1) Babita
- (2) Divya
- ☒ (3) Chetna
- (4) Erric

Instructions : Each question has four options. There is only one correct answer to each question. Choose the **Correct/Most Appropriate** option and darken/blacken the corresponding circle on the OMR Answer Sheet.

SECTION-'C': ENGLISH

Read the passage given below and answer the questions that follow :

Mountain climbers are unanimous in agreeing that the unpredictable weather is what they fear the most. There may be sunshine one moment and a snowstorm the other. At higher altitudes, snow is a regular feature and being decisive about setting up camps or proceeding further is crucial. The icy sheets after ice storms make walking treacherous, while the powdery snow makes a mountaineer sink deep into the snow. Up there, where the intention is to embrace Nature's wonder, one realises that it cannot be done without facing its formidable glory. A true mountaineer may challenge the mountain, yet is always respectful to the powerful forces of nature.

Summiting mountains carries its own health risks such as oxygen and altitude sickness problems, frost bites, swelling of hands and feet, fluid collection in brain or lungs and exhaustion. Yet, the gratification mountaineers feel from mastering something that is so frightening, urges them to undertake these endeavours. We may think that the mountaineers are fearless, experienced, say, "Not at all. It's fear that keeps them so involved with such arduous journeys." Impulse and brazenness can be deadly foes. In the words of the Indian mountaineer, Bachiendri Pal, "The biggest risk is to not take the risk at all. Remember that."

076. The reason given for calling the weather 'unpredictable' on the mountains, as given in the passage is :

- ☒ (1) Sunshine as well as snowstorm in short intervals
- (2) Icy sheets after ice storms
- (3) Forces of Nature
- (4) High altitude resulting in less oxygen

077. The reason a true mountaineer is respectful to the forces of nature up in the mountains is :

- (1) Directive
- (2) Challenge
- (3) Experience
- ☒ (4) Survival

078. Choose the **inappropriate** reason for the feeling of exhilaration on reaching a summit, that the mountain-climbers experience :

- (1) Achievement of a seemingly impossible feat
- (2) Spectacular panoramic view
- (3) Application of the inculcated survival instinct
- ☒ (4) Opportunity to use sophisticated mountaineering equipment

079. The word from the passage that can be used to fill in the blank :

His _____ opponent beat him in no time in the boxing ring.

- (1) unanimous
- (2) unpredictable
- (3) treacherous
- ☒ (4) formidable

080. The word from the passage that means same as :

Involving a lot of effort and energy, especially over a period of time.

- (1) Treacherous
- (2) Exhaustion
- (3) Endeavour
- ☒ (4) Arduous

081. Organize the parts to form a meaningful sentence :

- A. Than I expected
- B. Our players
- C. Was rather worse
- D. The performance of
- (1) BCAD
- (2) CBDA
- (3) ABDC
- ☒ (4) DBCA

082. Choose the word **opposite in meaning** to the given word :

Abandon

- ☒ (1) Adopt
- (2) Continue
- (3) Solicit
- (4) Chastise

083. Find the correctly spelt word :

- ☒ (1) Renaissance
- (2) Reccomendation
- (3) Irrepereble
- (4) Meagere

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084. Change the gender in the sentence :

He is a father and a teacher.

- (1) She is a mother and a teacheress.
- ☒ (2) She is a mother and a teacher.
- (3) She is a father and a teacheress.
- (4) She is a father and teacher.

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085. Change the sentence from passive voice to active voice :

By whom was this beautiful glass broken?

- (1) Who has broken this beautiful glass?
- (2) Who had broken this beautiful glass?
- ☒ (3) Who broke this beautiful glass?
- (4) This beautiful glass has been broken by whom?

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086. Choose the appropriate word for the blank to complete the sentence :

Today is the _____ day of my life, nothing seems to go as planned.

- (1) best
- (2) bad
- (3) worse
- ☒ (4) worst

087. Choose the word opposite in meaning of 'permit' :

- (1) Allow
- (2) License
- (3) Present
- ☒ (4) Prevent

088. Choose the correct conjunction from the options given below to complete the sentence :

Though she worked hard, _____ she failed.

- (1) but
- ☒ (2) yet
- (3) although
- (4) nevertheless

089. Fill in the blanks with the correct article :

It was such _____ foolish decision to accept _____ impossible task.

(1) an, the

(2) a, a

• (3) a, an

(4) the, a

090. Choose the word similar in meaning to the given word :

'Bleak'

(1) Balmy

• (2) Ugly

(3) Gloomy

(4) Bemoan

091. Fill in the blank with appropriate adverb :

_____ we escaped unhurt.

• (1) Fortunately

(2) Certainly

(3) Accidentally

(4) Wisely

092. Change the given sentence to Passive Voice :

Your behaviour annoyed me.

(1) I were annoyed on your behaviour.

(2) Your behaviour was annoying me.

• (3) I was annoyed at your behaviour.

(4) I was annoyed on your behaviour.

093. Fill in the correct adverb from the following options to make a meaningful sentence :

We cannot play music _____ in this park.

(1) aloud

• (2) loudly

(3) audibly

(4) aloudly

094. Change the given sentence to Indirect Narration :

Pawan said, "How beautiful the scene is!"

(1) Pawan exclaimed that how the scene was beautiful.

• (2) Pawan exclaimed how beautiful is the scene.

(3) Pawan exclaimed that the scene was very beautiful.

(4) Pawan exclaimed that the scene is indeed beautiful.

095. Spot the error in the following sentence :

She asked / me that / what / had happened
(A) (B) (C) (D)

(1) (A)

• (2) (C)

☒ (3) (B)

(4) (D)

096. Change the given sentence to Direct narration by choosing the correct option :

He said that Mangal would be working hard.

(1) He said, "Mangal would work harder."

(2) He said, "Mangal will work hard."

• (3) He said, "Mangal would be working hard."

☒ (4) He said, "Mangal will be working hard."

097. Comparative degree of the adjective 'Most' is :

• ☒ (1) More

(2) Much

(3) Many

(4) Foremost

098. Fill in the blanks with appropriate choice :

I wrote a line on the sand with a _____ that she could not _____

_____ before the waves washed it away.

(1) read, read

(2) reed, reed

(3) read, reed

• ☒ (4) reed, read

099. Choose the correct idiom for the blank :

Mediocre artists like Sheena are found _____.

(1) all and sundry

(2) at every shop

☒ (3) a dime a dozen

(4) in rain or shine

100. Choose the appropriate question tag :

We are going to the movie tonight,

• (1) are we?

☒ (2) aren't we?

(3) isn't it?

(4) is it?

Instruction : Each question has four options. There is only one correct answer to each question. Choose the **Correct/Most Appropriate** option and darken/blacken the corresponding circle on the OMR Answer Sheet.

SECTION 'D' : GENERAL SCIENCE

101. The major component of compressed natural gas (CNG) is :

- (1) Carbon monoxide
- (2) Nitrogen dioxide
- ☒ (3) Methane
- (4) Oxygen

102. Combustion is the chemical process in which substance reacts with _____ and produces heat.

- ☒ (1) Oxygen
- (2) Nitrogen
- (3) Carbon dioxide

(4) Carbon monoxide

103. Which of the following is NOT a part of the animal cell?

- (1) Cell membrane
- ☒ (2) Cell wall
- (3) Cytoplasm
- (4) Nucleus

104. The animals which give birth to the young ones are called :

- (1) Oviparous
- ☒ (2) Viviparous
- (3) Ovoviviparous
- (4) Parthenogenic

105. Special shapes are given to the objects moving in fluid to :

- ☒ (1) Minimise fluid friction
- (2) Maximise fluid friction
- (3) Restore fluid friction
- (4) Keep fluid friction unchanged

106. Identify the measures used to limit noise pollution :

- (A) Minimise the use of automobile horns
- (B) Planting trees along the roads
- (C) Installing silencing devices in aircraft engines
- (D) Cutting trees around the residential buildings

Choose the correct option from the following :

- (1) (B), (C) and (D) only
- ✓ (2) (A), (B) and (C) only
- (3) (B) and (D) only
- (4) (A) and (C) only

107. Image formed by a plane mirror is :

- (1) Virtual, behind the mirror and enlarged
- ✓ (2) Virtual, behind the mirror and the same size as the object
- (3) Real, at the surface of the mirror and enlarged
- (4) Real, behind the mirror and the same size as the object

108. Which of the following is the most reactive with water?

- (1) Phosphorus
- (2) Zinc
- ✓ (3) Sodium
- (4) Cobalt

109. Select the correct statements from the following :

When the electric current passes through a conducting solution :

- (A) Bubbles of the gas may be formed on the electrodes
- (B) Deposits of metal may be seen on the electrode
- ✓ (C) There is no change in colour of the solution
- (D) Change in colour of the solution may occur

Choose the correct option from the following :

- (1) (A), (B) and (C) only
- (2) (A) and (C) only
- ✓ (3) (A), (B) and (D) only
- (4) (B) and (C) only

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110. Match the following:

Member of Solar System	Example
A. Satellite	I. Cassiopeia
B. Constellation	II. Sirius
C. Comet	III. Moon
D. Star	IV. Halley

Choose the correct answer from the options given below:

- (1) A-III, B-IV, C-I, D-II
 (2) A-IV, B-I, C-III, D-II
 (3) A-III, B-I, C-IV, D-II
 (4) A-I, B-III, C-IV, D-II

111. The percentage of different gases in air is:

- (1) 78% nitrogen, 21% oxygen and other gases
 (2) 20% nitrogen, 20% oxygen and other gases
 (3) 60% nitrogen and 40% oxygen
 (4) 10% nitrogen, 50% oxygen and other gases

112. Which is NOT a naturally occurring greenhouse gas?

- (1) Methane
 (2) Carbon dioxide

(3) Nitrous oxide

(4) Ethane

113. Match the organisms in Column A with their action in Column B:

A	B
Bacteria	I. Fixing Nitrogen
B. Rhizobium	II. Malaria
C. Protozoa	III. AIDS
D. Virus	IV. Tuberculosis

Choose the correct answer from the options given below:

- (1) A-IV, B-I, C-II, D-III
 (2) A-III, B-II, C-I, D-IV
 (3) A-I, B-II, C-III, D-IV
 (4) A-II, B-I, C-IV, D-III

114. Microorganisms are classified into four major groups as:

- (1) Bacteria, Aspergillus, Amoeba, Spirogyra
 (2) Bacteria, Fungi, Protozoa, Algae
 (3) Virus, Paramecium, Antibodies, Antibiotics
 Fungi, Bacteria, Pathogens, Rhizobium

113. Earthquakes are caused by the disturbance
in _____ of earth.

(1) mantle

(2) outer core

☒ (3) crust

(4) inner core

116. The amount of heat energy produced on
complete combustion of 1 kg. of a fuel
is called _____ value.

(1) fuel

(2) ideal fuel

(3) energy

☒ (4) calorific

117. Match the substances given in Column
A with their uses given in Column B :

A

B

A. Gold

I. Thermometer

B. Iron

II. Electric wires

C. Mercury

III. Machinery

D. Copper

IV. Jewellery

Choose the correct answer from the
options given below :

(1) A-IV, B-I, C-II, D-III

☒ (2) A-IV, B-III, C-I, D-II

(3) A-IV, B-II, C-III, D-I

(4) A-IV, B-III, C-II, D-I

118. The force exerted by a magnet is an
example of :

(1) Contact force

☒ (2) Non-contact force

(3) Electrostatic force

(4) Force of gravity

119. Which of the following is NOT a Kharif
crop?

(1) Paddy

(2) Soyabean

☒ (3) Mustard

(4) Cotton

120. Which of the following may NOT be a
cause of passing HIV virus from an
infected person to a normal person?

(1) Sharing the syringes used for
injecting drugs

(2) Sexual contact with an infected
person

☒ (3) Shaking hands with an infected
person

(4) Through the milk of an infected
mother to her infant

121. Which of the following hormones helps the body to adjust to stress when one is very angry, embarrassed or worried?

- (1) Adrenalin
- (2) Thyroxine
- (3) Insulin
- (4) Estrogen

122. The method of preparing compost with the help of redworms is called :

- (1) Composting
- (2) Worming
- (3) Vermicomposting
- (4) Decomposing

123. The variety of organisms existing on the earth, their interrelationships and their relationship with the environment is called :

- (1) Biosphere
- (2) Biodiversity
- (3) Biosphere Reserve
- (4) Biology

124. Which of the following is the first Reserve forest of India?

- (1) Satpura National Park
- ✓ (2) Kaziranga
- (3) Jim Corbett National Park
- (4) Tawa Reservoir

125. Many young people get acne and pimples on the face during adolescence due to :

- (1) Increased activity of sebaceous glands
- (2) Increased activity of sweat glands
- (3) Increased activity of salivary glands
- (4) Increased activity of sweat glands and sebaceous glands

Instructions : Each question has four options. There is only one correct answer to each question. Choose the **Correct Most Appropriate** option and darken/blacken the corresponding circle on the OMR Answer Sheet.

SECTION - 'E': SOCIAL SCIENCE

126. The power of the judiciary to strike down particular laws passed by the Parliament if it believes them to be in violation of the basic structure of the Constitution is called _____

- (1) Judicial activism
- (2) Separation of powers
- (3) Amendment
- ☒ (4) Judicial review

127. Which one among the following statements is NOT correct about the Gram Sabha?

- (1) The ward Panchs and the Sarpanch form the Gram Sabha.
- ☒ (2) Anyone who is 18 years old or more and lives in the area covered by a Panchayat is a member of the Gram Sabha.

(3) The work of the Gram Panchayat has to be approved by the Gram Sabha.

(4) The Gram Sabha prevents the Panchayat from misusing money.

128. Which of the following statements are correct?

- ☒ (A) Public facilities relate to people's basic needs.
- (B) Public facilities are only for those who can afford them.
- (C) The responsibility to provide public facilities lie with the government.
- (D) The responsibility to provide public facilities lie with private companies.

Choose the correct answer from the options given below :

- (1) (A) and (B) only
- (2) (B) and (C) only
- ☒ (3) (A) and (C) only
- (4) (A) and (D) only

129. The Employment of Manual Scavengers and Construction of Dry Latrines (Prohibition) Act, was passed by the Government of India in which year?

- (1) 1989
- (2) 1990
- (3) 1992
- (4) 1993

130. The difference between the birth rate and the death rate of a country is called the _____.

- (1) Natural growth rate
- (2) Average density of population
- (3) Population distribution
- (4) Life expectancy

131. Which one of the following is a Renewable Resource?

- (1) Natural gas
- (2) Coal

- (3) Solar energy
- (4) Petroleum

132. The book titled "Amar Jibari" was written by :

- (1) Rokeya Sakhawat Hossain
- (2) Pandita Ramabai
- (3) Tarabai Shinde
- (4) Rashsundari Devi

133. What is the full form of "PIL"?

- (1) Public Interrogation Litigation
- (2) Private India Limited
- (3) Public Interest Litigation
- (4) Public Information Litigation

134. The Azad Hind Fauj was raised by :

- (1) Mahatma Gandhi
- (2) Bhagat Singh
- (3) Jawaharlal Nehru
- (4) Subhas Chandra Bose

135. Which of these is NOT a function of the Municipal Corporation?

- (1) Prevents outbreak of diseases in the city
- (2) Running schools
- ☒ (3) Providing defense services
- (4) Garbage collection

136. Sahara, the world's largest desert, is located in which of the following continents?

- ☒ (1) Africa
- (2) North America
- (3) South America
- (4) Antarctica

137. Which one of the following is NOT a factor of soil formation?

- (1) Time
- (2) Parent Rock
- ☒ (3) Precipitation
- (4) Climate

138. Which crop is also known as "Golden Fibre"?

- (1) Cotton
- ☒ (2) Jute
- (3) Wheat
- (4) Millets

139. Gandhiji carried out the Dandi March to oppose which of the following?

- (1) Rowlatt Act
- ☒ (2) Salt Law
- (3) Simon Commission
- (4) Partition of Bengal

140. The last Mughal emperor was :

- ☒ (1) Bahadur Shah Zafar
- (2) Nawab Wajid Ali Shah
- (3) Bakht Khan
- (4) Ahmadullah Shah

141. Which one of the following is an example of Marine based industry?

- (1) Cotton textile
- ☒ (2) Sea food processing
- (3) Iron ore
- (4) Pharmaceuticals

142. Which Article of the Constitution of India states that the practice of untouchability has been abolished?

- (1) Article 14
- ☒ (2) Article 17
- (3) Article 19
- (4) Article 21

143. Which country is the largest producer of "Bauxite" in the world?

- (1) South Africa
- (2) Brazil
- ☒ (3) Australia
- (4) Russia

144. Match List-I with List-II :

List-I List-II

- | | |
|------------|------------------------|
| A. Diwan | I. Financial Officer |
| B. Bakhshi | II. Military Paymaster |

C. Faujdar III. Military Commander

D. Kotwal IV. Police Commander

Choose the correct answer from the options given below :

☒ (1) A-I, B-II, C-III, D-IV

(2) A-II, B-III, C-I, D-IV

(3) A-IV, B-I, C-II, D-III

(4) A-III, B-I, C-II, D-IV

145. The full form of "CITES" is :

(1) The Contract on International Trade in Endangered Species

☒ (2) The Convention on International Trade in Endangered Species

(3) The Convention on Indiscriminate Trade in Endangered Species

(4) The Contract on Indiscriminate Trade in Endangered Species

146. Ibn Battuta, a fourteenth century traveller, was from which of the following countries?

- (1) Afghanistan
- (2) China
- (3) Iran
- ☒ (4) Morocco

147. According to the Constitution of India, there are _____ organs of the government.

- (1) Two
- ☒ (2) Three
- (3) Four
- (4) Five

148. Which of the following is a method for conservation of land resource?

- (1) Overgrazing
- (2) Use of chemical pesticide

☒ (3) Land degradation

☒ (4) Afforestation

149. Which of the following is NOT a feature of a shopping complex?

- (1) Branded stores
- ☒ (2) Buying and selling takes place between traders

150. The Magnitude of the Earthquake is measured on :
• (3) Multiple products under a roof
• (4) Entertainment facilities

150. The Magnitude of the Earthquake is measured on :

- (1) Digital scale
- (2) Victor scale
- (3) Nichter scale
- ☒ (4) Richter scale