SECTION-'A' : MATHEMATICS

001.

In the above figure, AB ∥ CD. The value of x is :

(1) 10 (2) 40
(3) 30 (4) 20 ✓

002. In the given figure, FD ∥ BC ∥ AE and AC ∥ ED

The value of x is :

(1) 62° (2) 113° ✓
(3) 129° (4) 67°

003. 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) 47 m (2) 43 m
(3) 39 m (4) 37 m ✓

004. 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) ₹ 120 (2) ₹ 150
(3) ₹ 160 (4) ₹ 180 ✓

005. 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) 90 cm, 30 cm
(2) 100 cm, 20 cm
(3) 75 cm, 45 cm
(4) 80 cm, 40 cm ✓

006. 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) ₹ 18400 ✓ (2) ₹ 18640
(3) ₹ 18355 (4) ₹ 16560

007. 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) 65% (2) 80%
(3) 60% (4) 75% ✓

008. 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) Both statements I and II are true

(2) Both statements I and II are false

(3) Statement I is true and Statement II is false

(4) Statement I is false and Statement II is true

009. 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) ₹ 2400

(2) ₹ 2800

(3) ₹ 2000

(4) ₹ 1600

010. 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? $\left(Use\ \pi = \dfrac{22}{7} \right)$

(1) Circle by 132 cm^2

(2) Circle by 264 cm^2

(3) Square by 640 cm^2

(4) Square by 320 cm^2

011. 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 : $\left(Use\ \pi = \dfrac{22}{7} \right)$

(1) 420 cm

(2) 84 m

(3) 840 cm

(4) 42 m

012. 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) 78 km/hr

(2) 60 km/hr

(3) 72 km/hr

(4) 75 km/hr
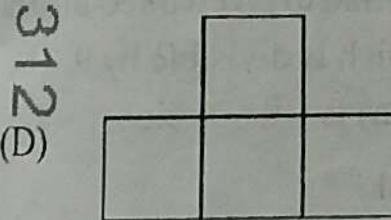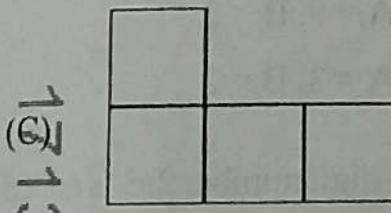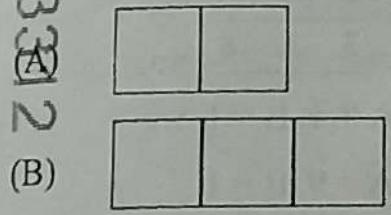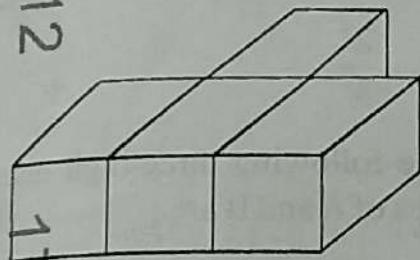
013. The weights (in kg) of 8 children are 13.4, 10.6, 12.7, 17.2, 14.3, 15, 16.5, 9.8. Their median weight (in kg) is :

(1) 13.85

(2) 15.5

(3) 13.5

(4) 15.75

014. If surface area and volume of a cube are numerically equal, then the side of the cube is :
   (1) 6 unit
   (2) 8 unit
   (3) 4 unit
   (4) 5 unit
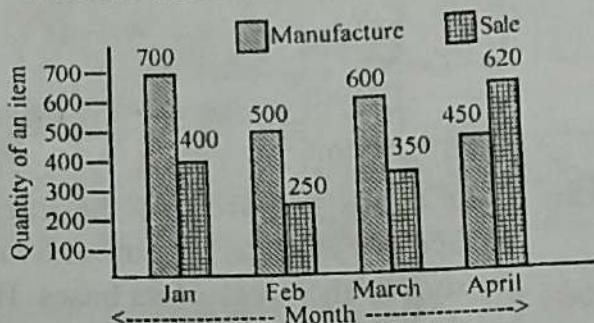
015. Which one of the following options is a top view of the below given figure?

(A)

(B)

(C)

(D)

   (1) (C)
   (2) (D)
   (3) (A)
   (4) (B)
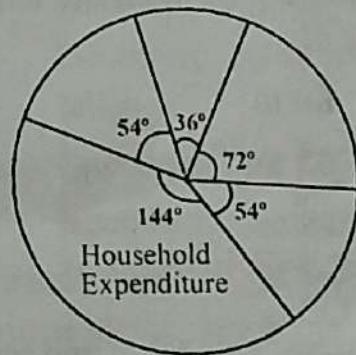
016. Following Bar-graph represents the manufacture and sale of an item by a firm in 4 months :

Total sale during the given months is what percent of the total manufacture during the month :
   (1) 74%
   (2) 75%
   (3) 70%
   (4) 72%

017. 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) ₹ 28800
   (2) ₹ 28500
   (3) ₹ 32000
   (4) ₹ 30800

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

(1)   6 unit²

(2)   24 unit²

(3)   18 unit²

(4)   12 unit²

019. 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 :

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

(1)   452.57 cm²

(2)   905.14 cm²

(3)   301.71 cm²

(4)   603.43 cm²

020. 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)   60 m

(2)   65 m

(3)   49 m

(4)   63 m

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

(1)   400 m²

(2)   500 m²

(3)   200 m²

(4)   600 m²

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

(1) $\dfrac{3^3}{4^3}$

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

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

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

023. 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 = 4, B = 1

(2)   A = 9, B = 1

(3)   A = 9, B = 2

(4)   A = 3, B = 2

024. 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)   1

(2)   3

(3)   4

(4)   2

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

(1) 30%

(2) 16%

(3) 21%

(4) 19%

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

$\dfrac{a^2 + b^2}{b^2 - c^2}$, is :

(1) 3

(2) 9

(3) 12

(4) 6

027. The marked price of an article is ₹ 1500. A shopkeeper gives a discount of 5% and still makes a profit of 25%. The cost price of the article is :

(1) ₹ 1140

(2) ₹ 1240

(3) ₹ 1180

(4) ₹ 1260

028. 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) 32 days

(2) 36 days

(3) 40 days

(4) 35 days

029. 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 both tables A and B, x and y are in direct proportion

(2) In both tables A and B, x and y are not in direct proportion

(3) In table A, x and y are in direct proportion and in table B, x and y are not in direct proportion

(4) In table A, x and y are not in direct proportion and in table B, x and y are not in direct proportion (Typing Error)

030. Which of the following vary inversely?

(1) Distance covered and taxi fare

(2) Distance travelled and time taken

(3) Speed and distance covered

(4) Speed and time taken

031. 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) 11 times

(2) 9 times

(3) 8 times

(4) 7 times

[P.T.O.]

032. 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) Both statements I and II are true

(2) Both statements I and II are false

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

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

033. 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) All statements I, II and III are true

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

(3) Only statement III is true

(4) Only statement III is false

034. 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) 28

(2) 32

(3) 14

(4) 24

035. 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) $\dfrac{2}{5}$

(2) $\dfrac{7}{10}$

(3) $\dfrac{3}{5}$

(4) $\dfrac{3}{10}$

036. 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) $\dfrac{5}{16}$

(2) $\dfrac{3}{8}$

(3) $\dfrac{5}{8}$

(4) $\dfrac{7}{16}$

037. 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) 153 cm

(2) 152 cm

(3) 149 cm

(4) 151 cm

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

(1) 22

(2) 24

(3) 18

(4) 20

039. 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 :
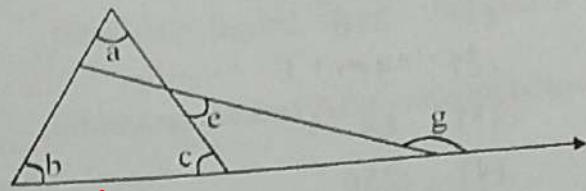
(1) 62,150

(2) 63,400

(3) 61,250

(4) 60,000

040. 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) ₹ 2376

(2) ₹ 2476

(3) ₹ 2260

(4) ₹ 2160

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

(1) c = e + (180° − g)

(2) c = 180° − e + g

(3) c = 180° − e − g

(4) c = e + g

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

(1) 7

(2) 9

(3) 8

(4) 3

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

(1) 1600

(2) 3600

(3) 5184

(4) 1444
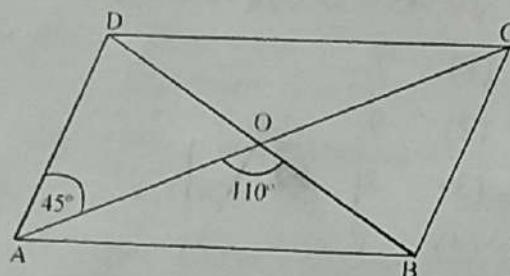
044. The difference of two numbers is 988. If the cube root of the smaller of the two numbers is 7, then the cube root of the larger number is :

(1) 11

(2) 25

(3) 12

(4) 13

(9)

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

(1) 216

(2) 512

(3) 64

(4) 256

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

(1) 50°

(2) 65°

(3) 45°

(4) 55°

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

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

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

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

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

048. 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) $20x^2 + 3$

(2) $4x(5x+3)$

(3) $4x(5x+2)$

(4) $5x(2x+3)$

049. 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) $12x^4 - 2x^2 - 6$

(2) $6x^2 + x - 12$

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

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

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

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

(2) $-3ac - 3bc - c^2$

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

(4) $5ac + 3bc + c^2$
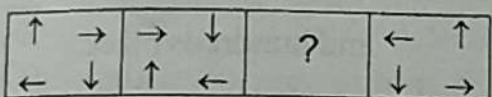
SECTION- 'B' : INTELLIGENCE
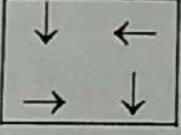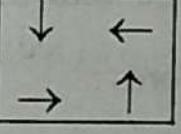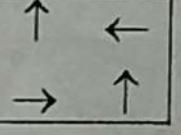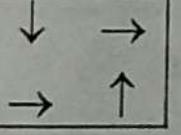
051. Choose the number-group which is different from others :

(1) [64, 14, 54] ✓

(2) [99, 25, 74]

(3) [26, 4, 22]

(4) [45, 9, 36]
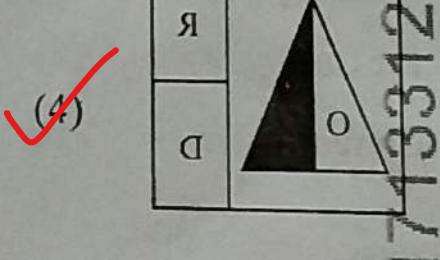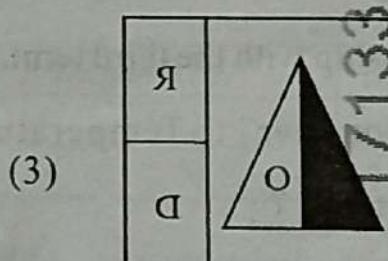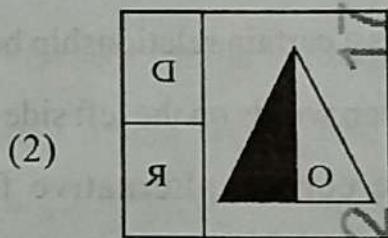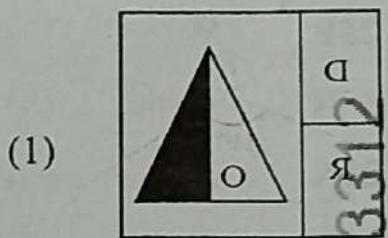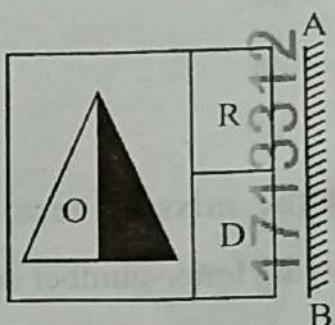
052. Replace the question mark (?) in the following figural series :


Choose the correct answer from the options given below :

(1)

(2) ✓

(3)

(4)

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

(1)

(2)

(3)

(4) ✓

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

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

(1) 33

(2) 34 ✓

(3) 28

(4) 32

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

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

(1) 25P

(2) 27N

(3) 25N

(4) 27P ✓

056. 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 : __?__

Error Ans (Distance)

(1) Speed

(2) Humidity

(3) Pressure

(4) Current

057. 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) 7438 ✓

(2) 7348

(3) 9548

(4) 8358

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

(1) Pond

(2) Lake

(3) Rain ✓

(4) River

APR-9-25_G/16890

(12)

17133312   17133312   17133312

059. Complete the following analogy :

DE : 9 : : FG : __?__

(1) 15

(2) 14

(3) 11

(4) 13 ✓
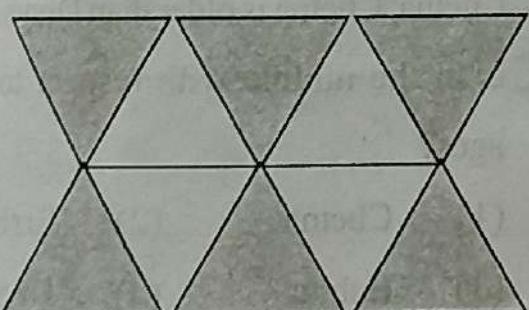
060. Arrange the following in a logical and meaningful order :

(A) Doctor

(B) Recovery

(C) Illness

(D) Consultation

(E) Treatment

Choose the correct option from the following alternatives :

(1) C, A, D, E, B ✓

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

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

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

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

(1) 12

(2) 14 ✓

(3) 15

(4) 10

062. Find the missing term in the following series :

cba, cbaa, cbbaa, __?__, ccbbaaa, ccbbbaaa :

(1) ccbbaa ✓

(2) ccbbba

(3) ccbaaa

(4) cbbaaa

063. 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		
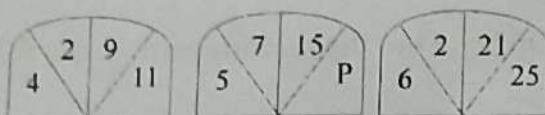
(1) Wednesday

(2) Thursday ✓

(3) Monday
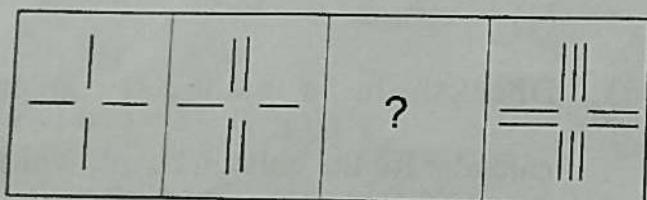
(4) Tuesday

064. 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) 13

(2) 17

(3) 12

(4) 25

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

(1)

(2)

(3)

(4)
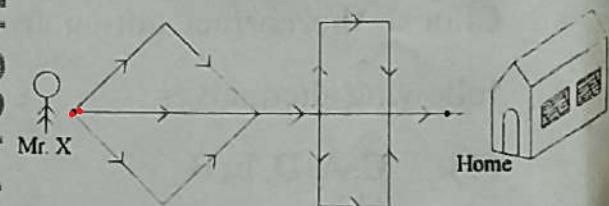
066. According to a certain code if, PEDESTRIAN = 30, ACCIDENT = 24, and DRIVER = 18, then TRAFFIC is equal to :

(1) 28   (2) 21

(3) 7   (4) 14

067. If the cost of 3 pencils and 1 sharpner is ₹ 25, the cost of 2 sharpners and 2 erasers is ₹ 14 and the cost of 3 erasers is ₹ 9, then the cost of 1 pencil is :

(1) ₹ 3   (2) ₹ 5

(3) ₹ 4   (4) ₹ 7

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

(1) 8   (2) 9

(3) 12   (4) 6

069. 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) Chetna   (2) Erric

(3) Babita   (4) Divya

070. Arrange the following words as per order in the dictionary :

(A) Conservation
(B) Conscience
(C) Consequence
(D) Consume
(E) Consciousness

Choose the correct option from the following :

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

071. Find the missing number-pair (?, ?) in the given series :

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

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

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

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

073. Complete the following analogy :

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

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

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

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

075. 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 R G N D Z P U N G K X

G :

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

SECTION-'C' : ENGLISH

076. Fill in the blanks with the correct article :

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

(1) a , an
(2) the, a
(3) an, the
(4) a, a

077. Choose the word **similar in meaning** to the given word :

'Bleak'

(1) Gloomy
(2) Bemoan
(3) Balmy
(4) Ugly

078. Fill in the blank with appropriate adverb :

_____ we escaped unhurt.

(1) Accidently
(2) Wisely
(3) Fortunately
(4) Certainly

079. Change the given sentence to Passive Voice :

Your behaviour annoyed me.

(1) I was annoyed at your behaviour.
(2) I was annoyed on your behaviour.
(3) I were annoyed on your behaviour.
(4) Your behaviour was annoying me.

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

We cannot play music _____ in this park.

(1) audibly
(2) aloudly
(3) aloud
(4) loudly

081. Change the given sentence to Indirect Narration :

Pawan said, "How beautiful the scene is !"

(1) Pawan exclaimed that the scene was very beautiful.
(2) Pawan exclaimed that the scene is indeed beautiful.
(3) Pawan exclaimed that how the scene was beautiful.
(4) Pawan exclaimed how beautiful is the scene.

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, experts say, "Not at all. It's fear that keeps them so intrigued with such arduous journeys." Impulse and brazenness can be deadly foes. In the words of the Indian mountaineer, Bachendri Pal, "The biggest risk .... is to not take the risk at all. Remember that."

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

(1) Forces of Nature

(2) High altitude resulting in less oxygen

(3) Sunshine as well as snowstorm in short intervals

(4) Icy sheets after ice storms

083. The reason a true mountaineer is respectful to the forces of nature up in the mountains is :
   (1)   Experience
   (2)   Survival ✓
   (3)   Directive
   (4)   Challenge

084. Choose the **inappropriate** reason for the feeling of exhilaration on reaching a summit, that the mountain-climbers experience :
   (1)   Application of the inculcated survival instinct
   (2)   Opportunity to use sophisticated mountaineering equipment ✓
   (3)   Achievement of a seemingly impossible feat
   (4)   Spectacular panoramic view

085. 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)   treacherous
   (2)   formidable ✓
   (3)   unanimous
   (4)   unpredictable

086. The word from the passage that means same as :
   Involving a lot of effort and energy, especially over a period of time.
   (1)   Endeavour
   (2)   Arduous ✓
   (3)   Treacherous
   (4)   Exhaustion

087. Organize the parts to form a meaningful sentence :
   A.   Than I expected
   B.   Our players
   C.   Was rather worse
   D.   The performance of
   (1)   ABDC
   (2)   DBCA ✓
   (3)   BCAD
   (4)   CBDA

088. Choose the word **opposite in meaning** to the given word :
   Abandon
   (1)   Solicit
   (2)   Chastise
   (3)   Adopt ✓
   (4)   Continue

APR-9-25_G/16890

(18)

089. Spot the error in the following sentence :

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

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

090. 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 be working hard."
(2) He said, "Mangal will be working hard."
(3) He said, "Mangal would work harder."
(4) He said, "Mangal will work hard."

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

(1) Many
(2) Foremost
(3) More
(4) Much

092. 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, reed
(2) reed, read
(3) read, read
(4) reed, reed

093. Choose the correct idiom for the blank :

Mediocre artists like Sheena are found _____.

(1) a dime a dozen
(2) in rain or shine
(3) all and sundry
(4) at every shop

094. Choose the appropriate question tag :

We are going to the movie tonight, _____

(1) isn't it?
(2) is it?
(3) are we?
(4) aren't we?

APR-9-25_G/16890   (19)   [P.T.O.]

095. Find the correctly spelt word :

    (1)   Irrepereble

    (2)   Meagere

    (3)   Renaissance ✓

    (4)   Reccomendation

096. Change the gender in the sentence :

He is a father and a teacher.

    (1)   She is a father and a teacheress.

    (2)   She is a father and teacher.

    (3)   She is a mother and a teacheress.

    (4)   She is a mother and a teacher. ✓

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

By whom was this beautiful glass broken?

    (1)   Who broke this beautiful glass? ✓

    (2)   This beautiful glass has been broken by whom?

    (3)   Who has broken this beautiful glass?

    (4)   Who had broken this beautiful glass?

098. 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)   worse

    (2)   worst ✓

    (3)   best

    (4)   bad

099. Choose the word **opposite in meaning** of 'permit' :

    (1)   Present

    (2)   Prevent ✓

    (3)   Allow

    (4)   License

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

Though she worked hard, _____ she failed.

    (1)   although

    (2)   nevertheless

    (3)   but

    (4)   yet ✓

SECTION 'D' : GENERAL SCIENCE

101. Tremors are caused by the disturbance in the _____ of earth.

    (1) crust
    (2) inner core
    (3) mantle
    (4) outer core

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

    (1) energy
    (2) calorific
    (3) fuel
    (4) ideal fuel

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

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

    (1) Electrostatic force
    (2) Force of gravity
    (3) Contact force
    (4) Non-contact force

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

    (1) Mustard
    (2) Cotton
    (3) Paddy
    (4) Soyabean

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

    (1) Shaking hands with an infected person
    (2) Through the milk of an infected mother to her infant
    (3) Sharing the syringes used for injecting drugs
    (4) Sexual contact with an infected person

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

    (1) ✓ Methane

    (2) Oxygen

    (3) Carbon monoxide

    (4) Nitrogen dioxide

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

    (1) Carbon dioxide

    (2) Carbon monoxide

    (3) ✓ Oxygen

    (4) Nitrogen

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

    (1) Cytoplasm

    (2) Nucleus

    (3) Cell membrane

    (4) ✓ Cell wall

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

    (1) Ovoviviparous

    (2) Parthenogenic

    (3) Oviparous

    (4) ✓ Viviparous

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

    (1) Restore fluid friction

    (2) Keep fluid friction unchanged

    (3) ✓ Minimise fluid friction

    (4) Maximise fluid friction

112. 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) and (D) only

(2) (A) and (C) only

(3) (B), (C) and (D) only

(4) ✓ (A), (B) and (C) only

113. Image formed by a plane mirror is :

(1) Real, at the surface of the mirror and enlarged

(2) Real, behind the mirror and the same size as the object

(3) Virtual, behind the mirror and enlarged

(4) ✓ Virtual, behind the mirror and the same size as the object

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

(1) ✓ Sodium

(2) Cobalt

(3) Phosphorus

(4) Zinc

115. 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 (D) only

(2) (B) and (C) only

(3) (A), (B) and (C) only

(4) (A) and (C) only

(23)

[P.T.O.]

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

(1) Insulin

(2) Estrogen

(3) Adrenalin ✓

(4) Thyroxine

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

(1) Vermicomposting ✓

(2) Decomposing

(3) Composting

(4) Worming

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

(1) Biosphere Reserve

(2) Biology

(3) Biosphere

(4) Biodiversity ✓

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

(1) Jim Corbett National Park

(2) Tawa Reservoir

(3) Satpura National Park ✓

(4) Kaziranga

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

(1) Increased activity of salivary glands

(2) Increased activity of sweat glands and sebacious glands ✓

(3) Increased activity of sebacious glands

(4) Increased activity of sweat glands

121. 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 option from the answers given below :

(1) ✓ A-III, B-I, C-IV, D-II

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

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

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

122. The percentage of different gases in air is :

(1) 60% nitrogen and 40% oxygen

(2) 10% nitrogen, 50% oxygen and other gases

(3) ✓ 78% nitrogen, 21% oxygen and other gases

(4) 20% nitrogen, 20% oxygen and other gases

123. Which is NOT a naturally occurring greenhouse gas?

(1) Nitrous oxide

(2) ✓ Ethane

APR-9-25_G/16890

(3) Methane

(4) Carbon dioxide

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

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

Choose the correct option from the answers given below :

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

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

(3) ✓ A-IV, B-I, C-II, D-III

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

125. Microorganisms are classified into four major groups as :

(1) Virus, Paramecium, Antibodies, Antibiotics

(2) Fungi, Bacteria, Pathogens, Rhizobium

(3) Bacteria, Aspergillus, Amoeba, Spirogyra

(4) ✓ Bacteria, Fungi, Protozoa, Algae

(25) [P.T.O.]

SECTION - 'E' : SOCIAL SCIENCE

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

    (1) Iron ore

    (2) Pharmaceuticals

    (3) Cotton textile

    (4) Sea food processing ✓

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

    (1) Article 19

    (2) Article 21

    (3) Article 14

    (4) Article 17 ✓

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

    (1) Australia ✓

    (2) Russia

    (3) South Africa

    (4) Brazil

129. 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-IV, B-I, C-II, D-III

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

    (3) A-I, B-II, C-III, D-IV ✓

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

130. The full form of "CITIES" is :

    (1) The Convention on Indiscriminate Trade in Endangered Species

    (2) The Contract on Indiscriminate Trade in Endangered Species

    (3) The Contract on International Trade in Endangered Species

    (4) The Convention on International Trade in Endangered Species ✓

131. 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) Amendment

(2) Judicial review ✓

(3) Judicial activism

(4) Separation of powers

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

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

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

(3) The ward Panchs and the Sarpanch form the Gram Sabha.

(4) Anyone who is 18 years old or more and lives in the area covered by a Panchayat is a member of the Gram Sabha.

133. 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 (C) only ✓

(2) (A) and (D) only

(3) (A) and (B) only

(4) (B) and (C) only

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

(1) Iran

(2) Morocco ✓

(3) Afghanistan

(4) China

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

(1) Four

(2) Five

(3) Two

(4) Three ✓

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

(1) Land degradation

(2) Afforestation ✓

APR-9-25_G/16890

(3) Overgrazing

(4) Use of chemical pesticide

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

(1) Multiple products under a roof

(2) Entertainment facilities

(3) Branded stores

(4) Buying and selling takes place between traders ✓

138. The Magnitude of the Earthquake is measured on :

(1) Nichter scale

(2) Richter scale ✓

(3) Digital scale

(4) Victor scale

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

(1) ✓ Providing defense services

(2) Garbage collection

(3) Prevents outbreak of diseases in the city

(4) Running schools

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

(1) South America

(2) Antarctica

(3) ✓ Africa

(4) North America

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

(1) ✓ Precipitation

(2) Climate

(3) Time

(4) Parent Rock

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

(1) Wheat

(2) Millets

(3) Cotton

(4) ✓ Jute

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

(1) Simon Commission

(2) Partition of Bengal

(3) Rowlatt Act

(4) ✓ Salt Law

144. The last Mughal emperor was :

(1) Bakht Khan

(2) Ahmadullah Shah

(3) ✓ Bahadur Shah Zafar

(4) Nawab Wajid Ali Shah

APR-9-25_G/16890 (29) [P.T.O.]

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

(1) 1992

(2) 1993 ✓

(3) 1989

(4) 1990

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

(1) Population distribution

(2) Life expectancy

(3) Natural growth rate ✓

(4) Average density of population

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

(1) Solar energy ✓

(2) Petroleum

(3) Natural gas

(4) Coal

148. The book titled "Amar Jiban" was written by :

(1) Tarabai Shinde

(2) Rashsundari Devi ✓

(3) Rokeya Sakhawat Hossain

(4) Pandita Ramabai

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

(1) Public Interest Litigation ✓

(2) Public Information Litigation

(3) Public Interrogation Litigation

(4) Private India Limited

150. The Azad Hind Fauj was raised by :

(1) Jawaharlal Nehru

(2) Subhas Chandra Bose ✓

(3) Mahatma Gandhi

(4) Bhagat Singh