CAREER POINT
STAR ⭐

Scholastic **T**est for **A**nalysis and **R**eward

CLASS - 8th

(Class 8th Studying Students)

Duration: 2:00 hours   **Maximum marks: 300**

Instructions to Candidates

1. CP Star Test paper consists of total 75 questions and has been divided in three sections as follows:

   a. Science   25 Questions   Que. No. 01 to 25

   b Maths   25 Questions   Que. No. 26 to 50

   c. Mental Ability   25 Questions   Que. No. 51 to 75

2. All questions are compulsory.

3. All the answers will be encircled in OMR sheet which is being provided along with this paper.

4. For every correct answer marked by you, **4** marks will be allotted.

5. For every incorrect answer marked by you, **1** marks will be deducted.

5. Use of calculator is not permitted in any case.

7. Any kind of malpractice will expel you from exam immediately.

8. For any confusion please talk to the invigilator in the examination hall.

9. For any kind of suggestions or complaints send Email at **info@cpil.in**

CAREER POINT

SECTION-a [SCIENCE]

Q.1 When a batsman applies force to hit the ball with the bat, the moving ball
(1) changes direction.
(2) starts jumping.
(3) does not change direction.
(4) starts rolling.

Q.2 A charged comb attracts small pieces of paper due to
(1) frictional force.
(2) magnetic force.
(3) gravitational force.
(4) electrostatic force.

Q.3 If area of contact is increased, then
(1) pressure increases.
(2) pressure decreases.
(3) pressure remains constant.
(4) pressure increases up to some extent then decreases.

Q.4 Water comes out from the leaking joints of water pipes as the pressure is exerted by water on
(1) all the walls of the pipe.
(2) holes of the pipe.
(3) left wall of the pipe only.
(4) mouth of the pipe.

Q.5 Frictional force is
(1) contact force.
(2) non-contact force.
(3) muscular force.
(4) force applied by earth.

Q.6 Friction cannot be reduced by
(1) Polishing
(2) Oiling
(3) By using the ball bearing
(4) If area of contact is less

Q.7 The frequency of the object making 10 oscillations in 1 second is equal to
(1) 1 Hz. (2) 5 Hz.
(3) 8 Hz. (4) 10 Hz.

Q.8 The vibrating part of the flute is the
(1) stretched membrane.
(2) stretched string.
(3) air column.
(4) water column.

Q.9 Metals usually possess
(1) high melting and high boiling points.
(2) high melting and low boiling points.
(3) low melting and high boiling points.
(4) low melting and low boiling points.

Q.10 The synthetic fibre used to make a parachute is
(1) nylon. (2) polyester.
(3) rayon. (4) acrylic.

Q.11 Which of the following can undergo a chemical reaction?
(1) $MgSO_4+Fe$ (2) $ZnSO_4+Fe$
(3) $MgSO_4+Pb$ (4) $CuSO_4+Fe$

Q.12 Plastics are
(1) natural substance.
(2) bio degradable.
(3) non bio-degradable.
(4) very reactive.

Q.13 The one that has lusture appearance is
(1) chlorine. (2) sulphur.
(3) copper. (4) phosphorus.

Q.14 The biodegradable material is
(1) thermocol. (2) vegetable peels.
(3) coke tin. (4) aluminium foil.

Space for rough work

Q.15 A metal that melts at normal human body temperature is
(1) Lead.
(2) gallium.
(3) potassium.
(4) sodium.

Q.16 Synthetic fibres are made of large units called
(1) chains.
(2) molecules.
(3) polymers.
(4) polygonal.

Q.17 Areas for the protection of wildlife, their habitats and natural resources are called
(1) biosphere reserve
(2) zoological parks
(3) ecoshpere.
(4) ecosystem.

Q.18 An untrue statement is that
(1) migratory birds migrate during a particular time of the year.
(2) migratory birds cover long distances.
(3) migratory birds migrate to prevent themselves from inhospitable weather.
(4) migratory birds migrate to the nearest location.

Q.19 Animals are becoming extinct or facing extinction due to
(1) disturbances in their habitat.
(2) free movement of animals.
(3) wider space availability.
(4) more food availability.

Q.20 Nutrients are supplied to plants through
(1) fertilisers.
(2) weedicide.
(3) insecticide.
(4) earthworms.

Q.21 Preparation of soil is important for the
(1) roots to penetrate.
(2) stem to be erect.
(3) leaves to be greener.
(4) removal of microbes.

Q.22 Fallowing of land means
(1) leaving the land uncultivated.
(2) cultivation of many crops.
(3) cultivation of only one crop.
(4) cultivation of crop in one season.

Q.23 Sugar acts as a preservative because it
(1) increases the moisture content.
(2) reduces the moisture content.
(3) kills the microorganism.
(4) increases the life of microorganisms.

Q.24 Disease causing micro-organisms are called
(1) vectors.
(2) pathogens.
(3) agents.
(4) microbes.

Q.25 The bread that we have in our breakfast appears soft and fluffy due to the formation of
(1) carbon monoxide.
(2) nitrogen.
(3) carbon dioxide.
(4) oxygen.

SECTION-b [MATHS]

Q.26 If $x = \dfrac{-2}{7}$, then $|-x|$ is equal to :
(1) $\dfrac{2}{7}$
(2) $\dfrac{-2}{7}$
(3) 0
(4) 1

Q.27 $9\dfrac{3}{4} + 11\dfrac{1}{2} + 8\dfrac{1}{4}$ equals :
(1) 28. 5
(2) 27.5
(3) 30.5
(4) 29.5

Q.28 The value of $\left[\dfrac{25}{8} \times \dfrac{2}{5}\right] - \left[\dfrac{3}{5} \times \left(-\dfrac{10}{9}\right)\right]$ is :
(1) 0
(2) $\dfrac{23}{12}$
(3) $\dfrac{15}{12}$
(4) 10

Space for rough work

Q.29 Ben sold his used snow plow and accessories for $352. If he received seven times as much money for the snow plow as he did for the accessories, find how much money he received for the snow plow :
(1) $54   (2) $308   (3) $2464   (4) $44

Q.30 The value of x in $y = \dfrac{kx - a}{x - 1}$ is :
(1) $\dfrac{y - a}{k - y}$ (2) $\dfrac{a - y}{y - k}$ (3) $\dfrac{a - y}{k - y}$ (4) $\dfrac{y - a}{y - k}$

Q.31 The sum of three consecutive even numbers is 384, what are the numbers?
(1) 126, 128, 130   (2) 128, 130, 132
(3) 128, 129, 130   (4) None of these

Q.32 If an angle of a parallelogram is two-third of its adjacent angle, the smallest angle of the parallelogram is :
(1) 108°   (2) 54°
(3) 72°   (4) 81°

Q.33 ABCD is a rhombus. If $\angle ACB = 50^{o}$, then $\angle ADB$ is :
(1) 50° (2) 40°
(3) 30° (4) 60°

Q.34 PQRS is a kite $\angle P = 70°$, $\angle S = 90.5°$ then $\angle R$ is :
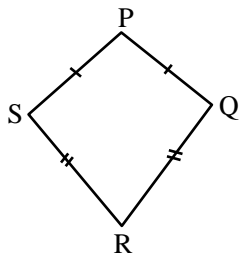
(1) 109°   (2) 115°
(3) 71°   (4) 90°

Q.35 In quadrilateral ABCD, AB∥ DC, AB = 7 cm, BC = 6 cm, AD = 6.5 cm and $\angle B = 70°$, then which figure can be constructed ?
(1) Square   (2) Trapezium
(3) Rhombus   (4) Rectangle

Q.36 **Statement I :** To construct a quadrilateral we need to satisfy triangle inequality only.
Statement II : A rectangle can be constructed if it's one side and one diagonal is given.
(1) Both statements I and II are correct
(2) Both statements I and II are incorrect
(3) Statement I is correct and statement II is incorrect
(4) Statement I is incorrect and statement II is correct

Q.37 Data collected in a survey shows that 40% of the buyers are interested in buying a particular brand of toothpaste. The central angle of sector of the pie chart representing this information is :
(1) 120°   (2) 155°   (3) 144°   (4) 40°

Q.38 A bar graph is drawn to the scale 1 cm = k units, then a bar of length k cm represents :
(1) 1 unit   (2) k units
(3) 2k units   (4) k^2 units

Q.39 A number is picked from a set of 100 natural numbers starting from 1. The probability of getting a prime number is :
(1) $\dfrac{3}{20}$ (2) $\dfrac{1}{4}$ (3) $\dfrac{1}{10}$ (4) $\dfrac{27}{100}$

Q.40 If a square number ends in 9, then its preceeding number is always :
(1) A multiple of 6
(2) A prime number
(3) An odd number
(4) A multiple of 4

Space for rough work

Q.41 The greatest 3 digit number which is a Perfect square is :
(1) 729   (2) 927   (3) 961   (4) 972

Q.42 $\left(\sqrt{\dfrac{225}{729}} - \sqrt{\dfrac{25}{144}}\right) \div \sqrt{\dfrac{16}{81}}$ equals :

(1) $\dfrac{1}{48}$ (2) $\dfrac{5}{81}$

(3) $\dfrac{5}{16}$ (4) None of these

Q.43 If 9, (x + 20), (x + 21) is a Pythagorean triplet, then value of x is :
(1) 20   (2) 30   (3) 35   (4) 40

Q.44 Three numbers are in the ratio 2 : 3 : 4. The sum of their cubes is 33957. The numbers are :
(1) 14, 21, 28   (2) 12, 18, 24
(3) 8, 12, 16   (4) 21, 28, 32

Q.45 The value of $\dfrac{(2.3)^3 - 0.027}{(2.3)^3 + 0.69 + 0.09}$ is :

(1) 2   (2) 2.273
(3) 2.327   (4) None of these

Q.46 The cube root of 0.000512 is :
(1) 0.5   (2) 0.08
(3) 0.008   (4) 8

Q.47 At what percentage above the C.P. must an article be marked so as to gain 25 % after allowing the customer a discount of 20 % ?

(1) 45 %   (2) $54\dfrac{1}{2}$ %

(3) 55 %   (4) $56\dfrac{1}{4}$ %

Q.48 A sum of money amounts to Rs. 8225 in $3\dfrac{1}{2}$ years and to Rs. 8750 in 5 years at a certain rate of S.I. The sum and the rate respectively are :
(1) 7000, 5 %   (2) 7000, 7 %
(3) 8000, 5 %   (4) 8000, 7 %

Q.49 Rs. 62500 was lent at 8 %, 9 %, 10 % p.a. for the first, second, and third year respectively at C.I. The total C.I. acquired will be Rs. :
(1) 16432.50   (2) 18234.50
(3) 18432.50   (4) 17342.50

Q.50 Find the C.I. on Rs. 10000 for $1\dfrac{1}{2}$ years at 5 % p.a., interest being compounded yearly :
(1) Rs. 800.50   (2) Rs. 825.50
(3) Rs. 750.50   (4) Rs. 762.50

SECTION-C [MENTAL ABILITY]

Q.51 Find out the missing terms each marked with (?) in the series given below.
B, C, ?, H, L, ?, W
(1) E, Q   (2) D, N
(3) E, M   (4) D, Q

Q.52 Find out the missing letters in alphabetical series given below.
b _ ab _ a _ ca _ c _ bc _
(1) abcabc   (2) abbcca
(3) ccbbaa   (4) aabbcc

Q.53 As 'Magazine' is related to 'Editor' in the same way 'Drama' is related to what?
(1) Hero   (2) Heroine
(3) Co-actor   (4) None of these

Space for rough work

Q.54 As 'Cricket' is related to 'Bat' in the same way, 'Tennis' is related to what?
(1) Game   (2) Stick
(3) Court   (4) None of these

Q.55 Choose the wrong term in the following number series.
169, 144, 120, 100, 81
(1) 81   (2) 100
(3) 120   (4) 144

Direction (Q.56 to 58)
In each of the following problems, four groups of numbers are given of which three are alike in some way, while the rest one is different. Choose out the different one.

Q.56 (1) 177   (2) 263   (3) 134   (4) 482

Q.57 (1) 7, 49, 343   (2) 4, 16, 32
(3) 3, 9, 27   (4) 5. 25, 125

Q.58 (1) 7 : 51 (2) 6 : 37 (3) 5 : 26 (4) 8 : 65

Directions : (Q.59) Find the missing term :

Q.59 If a = 10 (110) 12 and b = 15 (185) 13 then what will come in place of '?'.
c = ? (158) 14
(1) 15   (2) 20
(3) 12   (4) 8

Q.60 **SCHOOL** = **PNIKKB** and **ME** = **ZY**, how will you write **COOL HOME** ?
(1) N K K B I K Z Y
(2) N K K L I K Z Y
(3) P K K N I K Y Z
(4) N K K B P K Z Y

Q.61 If **AROMA** = **24**, **GRAND** = **22**, **KWALITY** = ?
(1) 40   (2) 62
(3) 55.5   (4) 50.5

Directions : (Q.62 to Q.64) The capital letters in each of the following words are coded as figures on the right side. Find out the codes for letters and answers the questions

STRONG : ◯ + ÷ △ ● |
WET   : % ◯ +
STRING : ◯ + ÷ ▲ ● |
DENSE : □ ◯ ● ◯ ◯
BELONG : ● ◯ × △ ● |

Q.62 Which is the code for 'STOLEN' ?
(1) ◯ × ◯ × ● %
(2) ◯ + ÷ × ◯ ●
(3) + ◯ ▲ ÷ × ◯
(4) ◯ + △ × ◯ ●

Q.63 Which is the code for 'LOWER' ?
(1) × ● % △ ÷
(2) × △ % ◯ ÷
(3) △ + % △ ÷
(4) × ● % △ ÷

Q.64 Which is the code for 'DRESSING' ?
(1) □ ÷ ◯ ◯ ◯ ▲ ● |
(2) × ÷ ◯ ◯ ▲ ● | +
(3) ÷ □ ◯ ◯ ◯ ▲ ◯ +
(4) □ % ◯ ◯ ◯ △ ● |

Space for rough work

Q.65 If ÷ means +, − means ÷, × means − and + means ×, then

$$\frac{(36\times4)-8\times4}{4+8\times2+16\div1} = ?$$

(1) 0   (2) 8   (3) 12   (4) 16

Q.66 If x stands for 'add', y stands for 'subtract', z stands for 'divide and p stands for 'multiply', then what is the value of (7 p 3) y 6 x 5 = ?

(1) 5   (2) 10   (3) 15   (4) 20

Q.67 If L denotes ×, M denotes ÷ , P denotes + and Q denotes −, then

16 P 24 M 8 Q 6 M 2 L 3 = ?

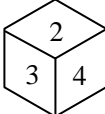(1) $\frac{13}{6}$ (2) $-\frac{1}{6}$ (3) $14\frac{1}{2}$ (4) 10

Directions : (Q.68) Solve the questions if the symbols are as given below :

x = −, + = ÷ , ÷ = ×, − = +

Q.68 8 ÷ 2 + 2 − 7 = ?

(1) 15   (2) 16
(3) 17   (4) 19

Q.69 Which one of the four interchanges in signs and numbers would make the given equation correct?

3 + 5 − 2 = 0

(1) + and −, 2 and 3   (2) + and −, 2 and 5
(3) + and −, 3 and 5   (4) None of these

Q.70 Find out to sign to be interchanged for making the question correct

10 + 10 ÷ 10 − 10 ×10 = 10

(1) + and −   (2) + and ×
(3) ÷ and ×   (4) + and ÷
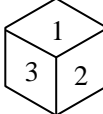
Direction : (Q.71 & Q.72) If > denotes +, < denotes −, + denotes ÷, ∧ denotes ×, − denotes =, × denotes > and = denotes <, choose the correct statements in each of the following questions.

Q.71 (1) 14 > 18 + 9 = 16 + 4 < 1
(2) 4 > 3 ∧ 8 < 1 − 6 + 2 > 24
(3) 3 < 6 ∧ 4 > 25 = 8 + 4 < 1
(4) 12 > 9 + 3 < 6 × 25 + 5 > 6

Q.72 (1) 29 < 18 + 6 = 36 + 6 ∧ 4
(2) 18 > 12 + 4 × 7 > 8 ∧ 2
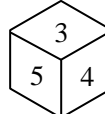(3) 32 > 6 + 2 = 6 < 7 ∧ 2
(4) 31 > 1 < 2 = 4 > 6 ∧ 7

Directions : (Q.73 to Q.74) In the following questions, choose the words that show the same relationship as given in the each questions

Q.73 'Goitre' is related to 'Iodine' as 'Anaemia' is related to :
(1) Vitamin   (2) Blood
(3) Iron   (4) Weakness

Q.74 'Page' is related to 'Book' as 'Leaf ' is related to-
(1) Root   (2) Green
(3) Tree   (4) Forest

Q.75 A die is thrown four times and its four different positions are given below. Find the number on the face opposite the face showing 2.
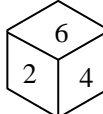

(i)   (ii)   (iii)   (iv)
(1) 3   (2) 4   (3) 5   (4) 6

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