



CPSAT

CODE-21

Scholarship & Admission Test Class – 10th

Duration: 1:30 hours

Maximum marks: 200

INSTRUCTIONS TO CANDIDATES

- CP-SAT Test paper consists of total 50 questions.
- Paper Pattern:
 - General Science 13 Questions Que. No. 01 to 13
 - Mathematics 16 Questions Que. No. 14 to 29
 - Social Studies 7 Questions Que. No. 30 to 36
 - English 7 Questions Que. No. 37 to 43
 - Mental Ability 7 Questions Que. No. 44 to 50
- All questions are compulsory.
- These questions have multiple choices but only one answer is correct out of them.
- Four marks will be allotted to each right answer.
- There is no Negative marking.
- The answer sheet is supplied with this question paper and you are advised to indicate your answer on this Answer Sheet only.
- Rough work should be done only on the blank spaces provided. Extra paper will not be supplied.
- Mobile / Calculator are not allowed during the exam.
- Any kind of malpractice will expel you from exam immediately.
- For any queries please contact to invigilator.
- For any kind of suggestions or complaints send Email at info@careerpointgroup.com

Name Roll Number

SCIENCE

PHYSICS

- Q.1** A body is thrown vertically up from the earth's surface. What happened to its P.E. during the motion ?
- (1) increases
 - (2) decreases
 - (3) remains constant
 - (4) first increases then decreases
- Q.2** No work is said to have been done when an object moves' at an angle of _____ with the direction of the force.
- (1) 0
 - (2) 90°
 - (3) 180°
 - (4) between 90° and 180°
- Q.3** A piece of wood floats in water. What happens in alcohol
- (1) floats higher
 - (2) stay as before
 - (3) sinks
 - (4) sink and rises
- Q.4** 1 millibar is equal to
- (1) 100 N m^{-2}
 - (2) 10 N m^{-2}
 - (3) 1 N m^{-2}
 - (4) $\frac{1}{100} \text{ N m}^{-2}$
- Q.5** A periodic wave is characterized by
- (1) phase only
 - (2) wavelength only
 - (3) frequency only
 - (4) all the above

CHEMISTRY

- Q.6** The nucleus of an atom consists of –
- (1) proton + electron
 - (2) only protons
 - (3) protons + neutrons + electrons
 - (4) protons + neutrons
- Q.7** Which of the following element is tetra atomic ?
- (1) Sulphur
 - (2) Ozone
 - (3) Helium
 - (4) Phosphorus
- Q.8** What is the mass of 3.011×10^{23} N atoms ?
- (1) 14 g
 - (2) 28 g
 - (3) 7 g
 - (4) 6.022×10^{23} g
- Q.9** The formula of sodium nitride is :
- (1) NaNO_3
 - (2) NaNO_2
 - (3) NaN
 - (4) $\text{Na}_3 \text{N}$.

BIOLOGY

- Q.10** Mendel noted as many pairs of contrasting traits in pea plants
- (1) 2
 - (2) 5
 - (3) 7
 - (4) 7
- Q.11** Paleontology is study of
- (1) Fossils
 - (2) Bones
 - (3) Birds
 - (4) Embryo
- Q.12** Combustible materials can be hygienically disposed off through
- (1) Damping
 - (2) incineration
 - (3) composting
 - (4) Recycling

Space for rough work

- Q.13** City garbage can be used to produce
 (1) sewage sludge (2) useful articles
 (3) Biogas & manure (4) All the above

MATHEMATICS

- Q.14** Which of the following is not a linear equation in two variables?

- (1) $px + qy + c = 0$ (2) $ax^2 + bx + c = 0$
 (3) $3x + 2y = 5$ (4) None of these

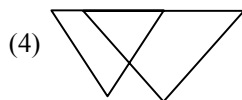
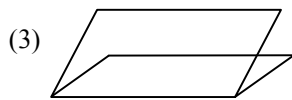
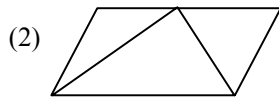
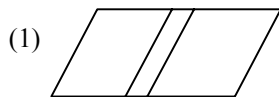
- Q.15** One of the solutions of the linear equation $4x - 3y + 6 = 0$ is -

- (1) (3, 2) (2) (-3, 2)
 (3) (-3, -2) (4) None of these

- Q.16** A diagonal of a parallelogram divides into how many congruent triangles ?

- (1) None (2) Two
 (3) Three (4) Four

- Q.17** Which of the following figures lie on the same base and between the same base ?



- Q.18** The Chords AB and CD of a circle are each at distance of 3 cm from the centre of the circle, then which of the following is true ?

- (1) $AB = CD$ (2) $AB > CD$
 (3) $AB < CD$ (4) $AB \leq CD$

- Q.19** XY and AB are two parallel chords of a circle 1 cm apart each other. If $XY = 6$ cm and $AB = 8$ cm, then the radius of the circle is -

- (1) 3 cm (2) 4 cm (3) 5 cm (4) 6 cm

- Q.20** If a, b, and c are length of the three sides of a triangle, then which of the following is true ?

- (1) $a + b < c$ (2) $a - b < c$
 (3) $a + b = c$ (4) None of these

- Q.21** If two cubes of sides 1 cm each are joined end to end then the total surface area of the resultant cuboid is -

- (1) 2 m^2 (2) 5 m^2
 (3) 10 m^2 (4) 5.5 m^2

- Q.22** The ratio of the area of a face to the total surface area of a cube is -

- (1) 1 : 3 (2) 3 : 1
 (3) 1 : 6 (4) 6 : 1

- Q.23** A coin is tossed 100 times and a head is got 63 times. The probability of getting a head is -

- (1) 6.3 (2) 63.0
 (3) 0.63 (4) 0.063

- Q.24** The probability of sure event is -

- (1) 0 (2) 1
 (3) 100 (4) 50

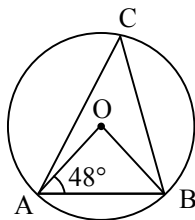
Space for rough work

- Q.25** ABCD is a parallelogram such that its diagonals are equal. The measure of $\angle ABC$ is -
 (1) 90° (2) 45°
 (3) 60° (4) 30°

- Q.26** In a parallelogram ABCD if $\angle A = 100^\circ$ then the measure of $\angle D = ?$ -
 (1) 100° (2) 80°
 (3) 90° (4) 45°

- Q.27** The length of a chord which is at a distance of 4 cm from the centre of a circle of radius 5 cm is -
 (1) 3 cm (2) 4 cm
 (3) 5 cm (4) 6 cm

- Q.28** In the figure O is the centre of the circle if $\angle OAB = 48^\circ$, then measure of $\angle ACB$ is -



- (1) 42° (2) 96°
 (3) 84° (4) 48°
- Q.29** With help of ruler and compasses it is not possible to construct an angle of -
 (1) 120° (2) 135°
 (3) 140° (4) 60°

SOCIAL SCIENCE

- Q.30** Which Indian national leader believed that sport was essential for creating a balance between the body and the mind?
 (1) Jawaharlal Nehru (2) Mahatma Gandhi
 (3) Sarojini Naidu (4) Maulana Azad

OR

Who were the first among the Indians to adopt the western-style clothing?

- (1) Christians (2) Parsis
 (3) Gujaratis (4) Maharashtrians

- Q.31** Which one of the following countries has a higher population density than India?
 (1) China (2) Bangladesh
 (3) Canada (4) Korea

- Q.32** Which of the following terms is used for virgin vegetation which is purely Indian in origin?
 (1) Endangered species
 (2) Endemic species
 (3) Exotic species
 (4) Normal species

- Q.33** Voter's List is also known as:
 (1) Election Number
 (2) Voter Identity Card
 (3) Electoral Roll
 (4) None of these

- Q.34** For how long can the Rajya Sabha delay a Money Bill?
 (1) 15 days (2) 1 month
 (3) 3 months (4) 14 days

Space for rough work

Q.35 Which two states of India continue to be the poorest states?

- (1) Madhya Pradesh, Jammu & Kashmir
- (2) Uttar Pradesh, Uttarakhand
- (3) Orissa, Bihar
- (4) None of the above

Q.36 White Revolution of the country is associated with

- (1) sugar (2) milk
- (3) paper (4) none of the above

ENGLISH

Q.37 Let us do _____ else.

- (1) something (2) somewhere
- (3) someone (4) somehow

Q.38 I would apologise if I _____ you

- (1) am (2) was
- (3) were (4) are

Q.39 Neither he nor his servants _____ .

- (1) leave (2) have left
- (3) has left (4) is left

Q.40 _____ what he says.

- (1) Listen to (2) Listen
- (3) Hear (4) Hear to

Q.41 The girl is hungry _____ she is weeping.

- (1) therefore (2) since
- (3) otherwise (4) because

Q.42 It _____ that humour decreases levels of stress hormones.

Q.43 We use candles, flashlights and lamps to *illuminate* rooms.

- (1) darken (2) light up
- (3) lighten (4) weaken

MENTAL ABILITY

Q.44 The time by my watch is 10 minutes to 7, find the angle between the hour hand and the minute hand.

- (1) 110° (2) 120°
- (3) 105° (4) 95°

Q.45 In a cricket season, India defeated Australia twice, West Indies defeated India twice, Australia defeated West Indies twice, India defeated New Zealand twice and west Indies defeated New Zealand twice which country has lost most number of times ?

- (1) India
- (2) Australia
- (3) New Zealand
- (4) West Indies

Q.46 Pointing to Ketan, Namrata said, " He is the son of my father's only son." How is Ketan's mother related to Namrata ?

- (1) Daughter (2) Aunt
- (3) Sister (4) Sister-in-law

Space for rough work

Q.47 If eye is called hand, hand is called mouth, mouth is called ear, ear is called nose and nose is called tongue, with which of the following would a person hear ?

- (1) Eye (2) Mouth
(3) Nose (4) Ear

Q.48 2, 7, 24, 77, 238, ...

- (1) 721 (2) 722
(3) 723 (4) 733

Q.49 23, 48, 99, 203, 413, ...

- (1) 927 (2) 837
(3) 937 (4) 437

Q.50 A father is at present, three times as old as his son. Five years back, he was four times as old as his son. Find the age of his son.

- (1) 12 years (2) 15 years
(3) 18 years (4) 20 years

Space for rough work