



# CPSAT

CODE-21

## Scholarship & Admission Test Class – 9<sup>th</sup>

*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](mailto:info@careerpointgroup.com)

Name ..... Roll Number .....

## SCIENCE

### PHYSICS

- Q.1** Which process is done to prevent corrosion of iron objects ?  
(1) Electrolysis           (2) Refining  
(3) Electroplating       (4) Metallurgy
- Q.2** Which of the following occurs during lightning ?  
(1) Acid rain  
(2) Nitrogen fixation  
(3) Green house effect  
(4) Earthing
- Q.3** The image formed by a camera and a simple microscope are respectively -  
(1) Real and real  
(2) Real and virtual  
(3) Virtual and virtual  
(4) Virtual and real
- Q.4** Which star is nearest to earth ?  
(1) Pole star               (2) Cassiopeia  
(3) Orion                   (4) Sun
- Q.5** Image formed by a plane mirror is -  
(1) Virtual, behind the mirror and enlarged  
(2) Virtual, behind the mirror and of the same size as the object  
(3) Real at the surface of the mirror and enlarged  
(4) real, behind the mirror and of the same size as the object

### CHEMISTRY

- Q.6** The zone of the candle flame which is moderately hot is called,  
(1) nonluminous zone  
(2) luminous zone  
(3) inner dark zone  
(4) lowest blue zone
- Q.7** The fuel considered as clean fuel is  
(1) Biogas                   (2) CNG  
(3) LPG                     (4) All of the above
- Q.8** Which of the following has the highest interparticle forces at room temperature ?  
(1) Oxygen                 (2) Water  
(3) Bromine                (4) Iron
- Q.9** Which of the following is a bad conductor of heat ?  
(1) Steel                     (2) Copper  
(3) Polythene              (4) Brass

### BIOLOGY

- Q.10** Pollutant from motor car exhaust that causes mental diseases is -  
(1) Lead  
(2) NO<sub>2</sub>  
(3) SO<sub>2</sub>  
(4) Hg
- Q.11** The gas of vital importance to all living organisms present in the stratosphere is -  
(1) Oxygen  
(2) Nitrogen  
(3) Ozone  
(4) Carbon-di-oxide

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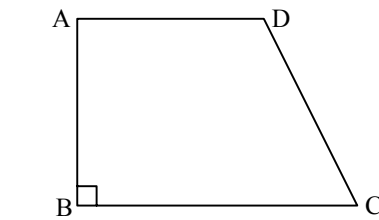
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**Q.12** The biological process by which carbon returned to its reservoir is -

- (1) Photosynthesis
- (2) denitrification
- (3) Carbon fixation
- (4) Cellular respiration

**Q.13** If a nucleus is removed from a living cell the remaining part will be -

- (1) Nucleoplasm
- (2) Protoplasm
- (3) Cytoplasm
- (4) Cell-sap



- (1)  $660 \text{ cm}^2$
- (2)  $330 \text{ m}^2$
- (3)  $330 \text{ cm}^2$
- (4)  $660 \text{ m}^2$

**Q.18** Find the area of a rhombus whose side is 6 cm and whose altitude is 4 cm. If one of its diagonals is 8 cm long, find the length of the other diagonal.

- (1) 6 cm
- (2) 6 m
- (3) 3 cm
- (4) 12 cm

**Q.19** The product of  $4mn$  and 0 is :

- (1)  $4mn$
- (2)  $mn$
- (3) 0
- (4) 1

**Q.20** The perimeter of one face of a cube is 20 cm. Its total surface area is :

- (1)  $2400 \text{ cm}^2$
- (2)  $150 \text{ cm}^2$
- (3)  $120 \text{ cm}^2$
- (4)  $100 \text{ cm}^2$

**Q.21** The base radius and height of a right circular cylinder are 5 cm and 10 cm. Its total surface area is :

- (1)  $150\pi \text{ cm}^2$
- (2)  $300\pi \text{ cm}^2$
- (3)  $150\pi \text{ cm}^3$
- (4)  $300\pi \text{ cm}^3$

**Q.22** Express the following statement in standard form :

1 micron is equal to  $\frac{1}{1000000}$  m.

- (1)  $1 \times 10^{-8} \text{ m}$
- (2)  $1 \times 10^{-6} \text{ cm}$
- (3)  $1 \times 10^6 \text{ m}$
- (4)  $1 \times 10^{-6} \text{ m}$

## MATHEMATICS

**Q.14** Which of the following is a monomial?

- (1)  $3x^2$
- (2)  $a - b$
- (3)  $a - b - c$
- (4)  $a + b - c + d$

**Q.15** How many terms are there in the expressions  $5 - 3xy$ ?

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

**Q.16** A polyhedron has 20 vertices and 30 edges, how many faces does it have?

- (1) 6
- (2) 12
- (3) 18
- (4) 24

**Q.17** Length of the fence of a trapezium shaped field ABCD is 120 m. If  $BC = 48 \text{ m}$ ,  $CD = 17 \text{ m}$  and  $AD = 40 \text{ m}$ , find the area of this field. Side AB is perpendicular to the parallel sides AD and BC.

*Space for rough work*

- Q.23** Find the value of :  $2^{-4}$   
 (1)  $\frac{1}{16}$       (2)  $\frac{1}{32}$       (3) 16      (4)  $\frac{1}{8}$
- Q.24** If 18 women can reap a field in 7 days, in what time can 6 women reap the same field?  
 (1) 15 days              (2) 21 days  
 (3) 30 days              (4) 36 days
- Q.25** 40 cows can graze a field in 16 days. How many cows will graze the same field in 10 days?  
 (1) 60      (2) 64      (3) 80      (4) 75
- Q.26** The factorisation of  $ab - a - b + 1$  is :  
 (1)  $(a - 1)(b + 1)$       (2)  $(a + 1)(b + 1)$   
 (3)  $(a - 1)(b - 1)$       (4)  $(a + 1)(b - 1)$
- Q.27** The factorization of  $4y^2 - 12y + 9$  is :  
 (1)  $(2y + 3)^2$               (2)  $(2y - 3)^2$   
 (3)  $(3y + 2)^2$               (4)  $(3y - 2)^2$
- Q.28** The y-coordinate of a point of the X-axis is :  
 (1) 0                      (2) 1  
 (3) 2                      (4) 10
- Q.29** Find the value of A in  $A \times A = 9$  :  
 (1) 1      (2) 2      (3) 3      (4) 4

## SOCIAL SCIENCE

- Q.30** A very large Steel Plant was installed at -  
 (1) Bokaro              (2) Sindri  
 (3) Mumbai              (4) Pune
- Q.31** The second Backward Classes Commission was set up under the Chairmanship of -  
 (1) Dr. Ambedkar      (2) Kaka Saheb Kalelkar  
 (3) B.P. Mandal      (4) None of these
- Q.32** The second most populous country in the world is -  
 (1) China              (2) India  
 (3) USA              (4) Japan
- Q.33** Which one of the following is an important centre of iron and steel industry in United States of America?  
 (1) Chicago              (2) Washington  
 (3) Pittsburgh              (4) None of the above
- Q.34** Who was elected as the chairman of the Constituent Assembly -  
 (1) B.R. Ambedkar      (2) Jawaharlal Nehru  
 (3) Rajendra Prasad      (4) Sardar Patel
- Q.35** Which of the following countries was not a member of SAARC in its first session -  
 (1) India              (2) Nepal  
 (3) Pakistan              (4) Afghanistan

*Space for rough work*

- Q.36** Mahatma Gandhi tested successfully his weapons of truth and non-violence or Satyagrah through three movements. Which of the following was not one of them -
- (1) Champaran Satyagrah
  - (2) Non-cooperation Movement
  - (3) Kheda Satyagrah
  - (4) Ahmedabad Mill Workers' Strike

## ENGLISH

**Choose the correct alternatives :**

- Q.37** Iswaran *loved to blow his own trumpet* by telling stories of how he knocked down an elephant.
- (1) to praise himself
  - (2) to praise others
  - (3) to talk about others
  - (4) to play a trumpet
- Q.38** This black cat belongs to the owner of the restaurant \_\_\_\_\_ I work.
- (1) which
  - (2) where
  - (3) when
  - (4) there
- Q.39** Insomnia is the same as \_\_\_\_\_.
- (1) sleepiness
  - (2) sleeplessness
  - (3) sleep during day time
  - (4) sleeping only during night

- Q.40** In fact 100 laughs a day \_\_\_\_\_ a good cardio respiratory response.
- (1) had
  - (2) have
  - (3) has
  - (4) have been

- Q.41** It \_\_\_\_\_ lower blood pressure and boosts immunity.
- (1) helped
  - (2) helps
  - (3) has been helping
  - (4) has helped

- Q.42** Cows are *domestic* animals. -
- (1) mad
  - (2) mean
  - (3) calm
  - (4) tame

- Q.43** It is a herb \_\_\_\_\_ is known to be beneficial.
- (1) which
  - (2) where
  - (3) what
  - (4) whom

## METNAL ABILITY

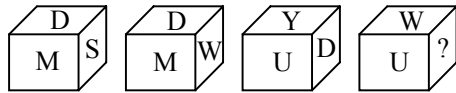
**Directions :**

In the following question you are give some letter which follow a set pattern. There are four/five choices the answer choice that can replace the '?' in the series

- Q.44** ? ayw gec mki sqo
- (1) z x w
  - (2) b z w
  - (3) usq
  - (4) may
- Q.45** Find the odd-man out?
- (1) PSRQ
  - (2) CGEF
  - (3) JMLK
  - (4) VYXW

*Space for rough work*

**Q.46** A cube on whose faces letters have been written, is shown below in different positions as can be seen from different directions. Find the missing letters ?



- (i) (ii) (iii) (iv)  
 (1) S (2) D (3) Y (4) W

**Directions :**

In the following questions, choose the missing word in place of sign? On the basis of the relationship between the words given on the left / right hand side of sign :

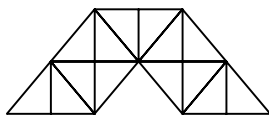
**Q.47** Mirror : Reflection : : Water : ?

- (1) Conduction  
 (2) Reflection  
 (3) Refraction  
 (4) Immersion

**Q.48** 1, 2, 5, 12, 27, 58, 121, (.....)

- (1) 246 (2) 247 (3) 248 (4) 249

**Q.49** Count the number of triangles in the following figure ?



- (1) 23 (2) 27 (3) 29 (4) 31

**Q.50** c \_ bbb \_ abbbb \_ abbb \_

- (1) aabcb (2) abccb  
 (3) abacb (4) bacbb

*Space for rough work*