



# RJ VISION PVT. LTD.

Code  
**A**

## RJ – CET (2015 – 16)

(Entrance cum Scholarship Test)

### COURSE - SAKSHAM (CLASS 8<sup>TH</sup>)

(Test Syllabus - Class 7<sup>th</sup>)

TIME : 1 HR MM : 160

This Booklet contains \_\_\_\_\_ pages

#### Important Instructions :

1. The test is of **1 hour** duration and Test Booklet contains **40** questions. Each question carries **4** marks. For each correct response, the candidate will get **4** marks. For each incorrect response, **one mark** will be deducted from the total scores. The maximum marks are **160**.
2. Use **Blue/Black Ball point pen only** for writing particulars on this page/markings responses.
3. Rough work is to be done on the space provided for this purpose in the Test Booklet only.
4. **On completion of the test, the candidate must handover the Answer Sheet to the invigilator in the Room/Hall.**
5. Use of white fluid for correction is **NOT** permissible on the Answer Sheet.
6. Each candidate, must show on demand his/her Admission Card to the Invigilator.
7. No candidate, without special permission of the Superintendent or Invigilator, would leave his/her seat.
8. Use of Electronic/Manual Calculator is prohibited.
9. No part of the Booklet and Answer Sheet shall be detached under any circumstances.
10. The candidates will write the Correct Test Booklet Code as given in the Test Booklet/Answer Sheet Attendance Sheet.

Do not open this Test Booklet until you are asked to do so.

Name of the Candidate (in Capitals) : \_\_\_\_\_

Roll Number : \_\_\_\_\_

School : \_\_\_\_\_

Centre of Examination (in Capitals) (Vasna / Niz / Anand / Others) \_\_\_\_\_

Candidate's Signature : \_\_\_\_\_ Invigilator Signature : \_\_\_\_\_

1. The rate of change of displacement with time is called
  - (1) speed
  - (2) velocity
  - (3) both of these
  - (4) none of these
2. Which of the following is the basic unit of speed ?
  - (1) km/min
  - (2) m/min
  - (3) km/h
  - (4) m/s
3. Which instrument records the distance travelled by a vehicle ?
  - (1) Manometer
  - (2) Odometer
  - (3) Speedometer
  - (4) Motometer
4. The main function of a switch in an electric circuit is
  - (1) to allow charge to flow
  - (2) to make or break a circuit
  - (3) to make the bulb in circuit to glow
  - (4) none of the above
5. Select the one in which heating effect of current is not used.
  - (1) Electric iron
  - (2) Electric immersion heater
  - (3) Electric geyser
  - (4) A battery
6. In electric heater the element material is
  - (1) silver
  - (2) copper
  - (3) brass
  - (4) nichrome
7. The normal temperature of human body is
  - (1) 35°C
  - (2) 37°C
  - (3) 39°C
  - (4) None of these
8. The glass tube used for construction of a thermometer should be
  - (1) long
  - (2) narrow
  - (3) uniform
  - (4) all of these
9. Which of the following is an insulator ?
  - (1) Wood
  - (2) Plastic
  - (3) Both of these
  - (4) None of these
10. The usefulness of an indicator depends upon change in which of the following?
  - (1) Its colour
  - (2) Its physical state
  - (3) Its temperature
  - (4) Its pressure
11. The acid present in vinegar is
  - (1) formic acid
  - (2) acetic acid
  - (3) sulphuric acid
  - (4) nitric acid
12. Reaction of an acid with a base known as
  - (1) decomposition
  - (2) combination
  - (3) redox
  - (4) neutralisation
13. Which of the following is acidic in nature ?
  - (1) Apple juice
  - (2) soap solution
  - (3) Slaked lime
  - (4) None of these
14. Which of the following acids is present in our body cells and which controls every feature of our body ?
  - (1) RNA
  - (2) DNA
  - (3) TNA
  - (4) WNA

15. The reason for a physical change to be named as such is that the
- (1) change occurs only in physical properties
  - (2) transfer of energy occurs
  - (3) is a reversible change
  - (4) All the above are correct
16. A chemical reaction
- (1) involves a chemical change
  - (2) involves a physical change
  - (3) one group of substances changes to another group of substances.
  - (4) Both (1) and (3) are correct
17. The change of milk to curd is an example of
- (1) physical change
  - (2) chemical change
  - (3) both physical and chemical change
  - (4) neither physical nor chemical change
18. A well developed soil profile is the result of
- (1) Physical process
  - (2) Chemical process
  - (3) Organic process
  - (4) All the above
19. Of the four distinct layers or sections of soil profile, organic matter is found in
- (1) top soil
  - (2) second layer from the top
  - (3) third layer from the top
  - (4) bottom layer
20. Humus refers to
- (1) the top most layer
  - (2) the bottom layer
  - (3) the rotting dead matter in soil
  - (4) None of these
21. Which of the following statements is true?
- (1)  $\frac{-2}{3} < \frac{4}{-9} < \frac{-5}{12} < \frac{7}{-18}$
  - (2)  $\frac{7}{-18} < \frac{-5}{12} < \frac{4}{-9} < \frac{-2}{3}$
  - (3)  $\frac{4}{-9} < \frac{7}{-18} < \frac{-5}{12} < \frac{-2}{3}$
  - (4)  $\frac{-5}{12} < \frac{-2}{3} < \frac{4}{-9} < \frac{7}{-18}$
22.  $\frac{-7}{5} + \left( \frac{2}{-11} + \frac{-13}{25} \right) = \left( \frac{-7}{5} + \frac{2}{-11} \right) + \frac{-13}{25}$
- This property is
- (1) closure
  - (2) commutative
  - (3) associative
  - (4) identity
23. If  $2805 \div 2.55 = 1100$ , then  $280.5 \div 25.5 =$  \_\_\_\_\_
- (1) 1.1
  - (2) 1.01
  - (3) 0.11
  - (4) 11
24. Division of  $\bar{5}.3716$  by 3 gives
- (1)  $-2.4575$
  - (2)  $\bar{1}.7905$
  - (3)  $\bar{2}.4572$
  - (4)  $\bar{2}.5472$
25. Out of 25 children in a class, 15 are girls and the rest are boys. Find the ratio of boys to girls.
- (1) 2 : 3
  - (2) 1 : 4
  - (3) 3 : 2
  - (4) 3 : 4
26. The value of
- $$4 - \frac{5}{1 + \frac{1}{3 + \frac{1}{2 + \frac{1}{4}}}}$$
- (1)  $\frac{40}{31}$
  - (2)  $\frac{4}{9}$
  - (3)  $\frac{1}{8}$
  - (4)  $\frac{31}{40}$
27. The sum of the prime numbers between 90 and 100 is
- (1) 188
  - (2) 281
  - (3) 376
  - (4) 97

28. The least number which must be subtracted from 2509 make it a perfect square is

- (1) 6 (2) 9  
(3) 12 (4) 14

29. The value of  $(3^0 - 4^0) \times 5^2$  is

- (1) 25  
(2) 0  
(3) -25  
(4) none of these

30. If  $x : y = 5 : 2$ , then value of  $\frac{(8x + 9y)}{(8x + 27y)}$  is

- (1) 22 : 29  
(2) 29 : 47  
(3) 61 : 26  
(4) 26 : 61

31. In what time will ₹72 become ₹ 81 at  $6\frac{1}{4}\%$  p.a. SI ?

- (1)  $1\frac{1}{2}$  Years  
(2)  $2\frac{1}{2}$  years  
(3) 2 years  
(4) None of these

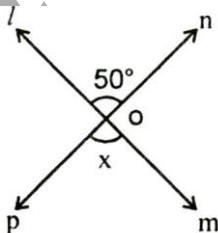
32. If ABCD is a parallelogram, then  $\angle A - \angle C =$

- (1)  $180^\circ$  (2)  $0^\circ$   
(3)  $360^\circ$  (4)  $90^\circ$

33. If two adjacent angle of a parallelogram are into the ratio 3 : 2, then the measure of the angles are

- (1)  $108^\circ, 72^\circ$   
(2)  $72^\circ, 36^\circ$   
(3)  $100^\circ, 80^\circ$   
(4)  $144^\circ, 36^\circ$

34. In the figure given below, the angle x is equal to :



- (1)  $50^\circ$  (2)  $100^\circ$   
(3)  $110^\circ$  (4)  $75^\circ$

35. Each side of an equilateral triangle s increased by 1.5%. The percentage increase in its area is:

- (1) 1.5 % (2) 3%  
(3) 4.5% (4) 5.7%

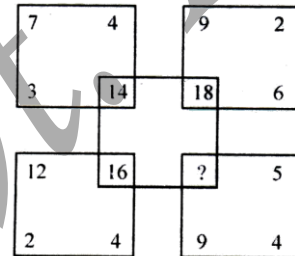
36. If a test score goes up 15% from x to 69, what was the previous test score ?

- (1) 52 (2) 60  
(3) 65 (4) 68

37. If + means  $\times$ , - means  $\div$ ,  $\div$  means + and  $\times$  means -, then  $36 \times 8 + 4 \div 6 + 2 - 3 = ?$

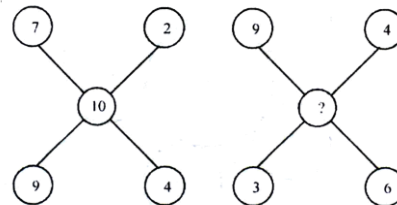
- (1) 2 (2) 18  
(3) 43 (4)  $6\frac{1}{2}$

38. What number should replace the question mark ?



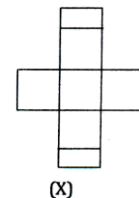
- (1) 45 (2) 30 (3) 52 (4) 18

39. What number should replace the question marks?



- (1) 2 (2) 9  
(3) 12 (4) 19

40. Select from the alternative, the box that can be formed by folding the sheet shown in fig (X):



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

**ANSWERS**  
**SAKSHAM (CLASS 8TH)**

Q	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans	2	4	2	2	4	4	2	4	3	1	2	4	1	2	1
Q	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans	4	2	4	1	3	1	3	4	3	1	3	4	2	2	2
Q	31	32	33	34	35	36	37	38	39	40					
Ans	3	2	1	1	2	2	3	2	1	1					