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**Time Alloted : 2 hours**

**Total Marks : 100**

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**Instructions**

The scholarship test will be 2 hours in duration and will be 100 marks in total.

The test consists of multiple-choice questions only .

All questions must be answered on the provided answer sheet.

You are not allowed to use any electronic devices during the test.

You will not be allowed to leave the test room until the end of the test.

Any form of cheating will result in disqualification from the scholarship.

You will be notified of your test results within a week after the test.

If you have any questions or concerns, please ask the invigilator before the test.

Read all instructions and questions carefully before answering

Do not spend too much time on a single question. Attempt all questions to the best of your ability

You will be required to submit your answer sheet before leaving the test room.

Do not forget to fill in your personal details on the answer sheet.

The scholarship test is a competitive process and only a limited number of scholarships will be awarded.

Name : \_\_\_\_\_

Class : \_\_\_\_\_ 9th \_\_\_\_\_ School : \_\_\_\_\_

Education Board : \_\_\_\_\_ Contact : \_\_\_\_\_

Signature of Invigilator

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**Excel Institute**

UNADDEEP COMPLEX , SUSSEN-TARSALI  
RING ROAD , TARSALI ,  
VADODARA , 390010  
CONTACT : 9824042421



6. Find  $\frac{3}{7} + \left(-\frac{5}{14}\right) + \left(-\frac{9}{14}\right) + \frac{5}{7}$
- a) -1  
b) -7  
c)  $\frac{1}{7}$   
d) 7
7. The value of  $(-2)^2 \times 3 - 1$  is
- a) 64  
b) -64  
c) 32  
d) -32
8.  $\left(\frac{1}{10}\right)^0$  is equal to
- a)  $\left(\frac{1}{10}\right)$   
b) 0  
c) 10  
d) 1
9. Simplify:  $\frac{\sqrt{216} + \sqrt{96}}{\sqrt{50^2 - 10^2}}$
- a) 1  
b)  $\frac{1}{4}$   
c)  $\frac{1}{2}$   
d) 2
10. Find the ratio of 5 km to 10 m.
- a) It is 1:500  
b) It is 500:1  
c) It is 1:20  
d) It is 20:1
11. Find  $\frac{2}{5} \times \left(-\frac{3}{7}\right) - \frac{1}{6} \times \frac{3}{2} + \frac{1}{14} \times \frac{2}{5}$
- a) 28  
b)  $-\frac{11}{28}$   
c) -11  
d) -28
12. Soham observed some microbes under microscope. He saw a microbe irregular in shape and locomoting with false feet, it is:
- a) Amoeba  
b) Hydra  
c) Paramecium  
d) Euglena
13. It is easier to row a boat in the direction of wind because
- a) Air exerts pressure in direction of sailing  
b) Fresh air help the sail in easy breathing  
c) Air exerts pressure in opposite direction  
d) Cold wind is lighter
14. Adolescents should be careful about what they eat, because
- a) adolescents feel hungry all the time.  
b) proper diet develops their brains.  
c) taste buds are well developed in teenagers.  
d) proper diet is needed for the rapid growth taking place in their body.
15. Sound waves are similar to the waves
- a) generated in a pipe filled with air by moving the piston attached to the pipe up

and down

b) generated by the mobile phone towers

c) generated in a stretched wire by hitting or plucking the wire

d) of laser light passing through air

16. The SI unit of frictional force is

a) Pascal

b) Watt

c) Newton

d) Joule

17. The repetition of sound caused by the reflection of sound waves is called

a) Reflection of sound

b) Propagation

c) Reverberation

d) Echo

18.  $1\text{N}/\text{sq m}$  is equal to

a) 1 Pa

b) 1.5 Pa

c) 10 Pa

d) 0.1 Pa

19. If **cushion** is called **pillow**, **pillow** is called **mat**, **mat** is called **bedsheet** and **bedsheet** is called **cover**, then which will be spread on the floor?

a) mat

b) bedsheet

c) cover

d) pillow

20. Niharika is 15<sup>th</sup> from the right end and 18<sup>th</sup> from the left end in a row of girls. How many girls are there in the row?

a) 31

b) 33

c) 34

d) 32

21. Find the missing number, if the same rule is followed in all the three figures.



a) 48

b) 18

c) 56

d) 42

22. A is son of B. C is wife of A. D is daughter of C. What is D of B?

a) Granddaughter

b) Son

c) Daughter

d) Grandson

23. Gaurav walks 2 km towards North. He then turns left and walks 6 km. He again turns left and walks 2 km. Further, he moves 3 km after turning to the right. How far is he from his original position?

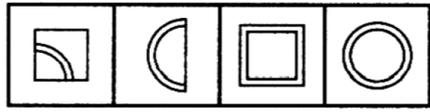
a) 9 km

b) 6 km

c) 10 km

d) 8 km

24. Find the missing figure.



(1)

(2)

(3)

(4)

a) Figure (2)

b) Figure (1)

c) Figure (3)

d) Figure (4)

25. How many m's are there in the even places in the sequence?

a, a, c, d, j, d, j, d, m, m, m, m, d, s, m, m, s, m, m, s, m, s

a) 10

b) 4

c) 6

d) 8

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**Solution**  
**EXSAT 9TH**  
**Class 09 - Admission Test**

1. **(b)** Option (a)  
**Explanation:**  
Surbhi told Anu that her mother was not well so she would not be able to go for dance practice that day.
2. **(a)** Dark clouds were seen before the storm.  
**Explanation:**  
Dark clouds were seen before the storm.
3. **(a)** They are constantly finding faults with other people.  
**Explanation:**  
They are constantly finding faults with other people.
4. **(c)** She studies in seventh class.  
**Explanation:**  
She studies in seventh class.
5. **(c)** 8  
**Explanation:**  
The addition of Q and 3 is giving 1 i.e, a number whose ones digit is 1 which is possible if Q = 8. Now  $8 + 3 = 11$ . Therefore,  $1 + 1 + Q = 0$  i.e, a number whose ones digit is 0 which means the number should be 10. So,  $1 + 1 + Q = 10$ . Therefore, the value of Q = 8.
6. **(c)**  $\frac{1}{7}$   
**Explanation:**  
$$\left[\frac{3}{7} + \left(\frac{-5}{14}\right)\right] + \left[\left(\frac{-9}{14}\right) + \frac{5}{7}\right]$$
$$= \left[\frac{3 \times 2 + (-5) \times 1}{14}\right] + \left[\frac{-9 \times 1 + 5 \times 2}{14}\right]$$
$$= \left[\frac{6-5}{14}\right] + \left[\frac{-9+10}{14}\right]$$
$$= \frac{1}{14} + \frac{1}{14}$$
$$= \frac{2}{14}$$
$$= \frac{1}{7}$$
7. **(d)** -32  
**Explanation:**  
Given,  $(-2)^2 \times 3^{-1} = (-2)^{6-1} = (-2)^5$   
 $= (-2) \times (-2) \times (-2) \times (-2) \times (-2) = -32$  [for  $(-a)^m$ , if m is odd, then  $(-a)^m$  is negative]
8. **(d)** 1  
**Explanation:**  
Using law of exponents,  $a^0 = 1$  [ $\because$  a is non-zero integer]  
 $\therefore \left(\frac{1}{10}\right)^0 = 1$

9.

(c)  $\frac{1}{2}$

**Explanation:**

$$\frac{1}{2}$$

10.

(b) It is 500:1

**Explanation:**

1 km = 1000 m

5 km = 5000 m

So, the ratio is,

5000:10

= 500:1

11.

(b)  $-\frac{11}{28}$

**Explanation:**

$$\begin{aligned} \frac{2}{5} \times \left(-\frac{3}{7}\right) - \frac{1}{6} \times \frac{3}{2} + \frac{1}{14} \times \frac{2}{5} \\ \frac{-6}{35} - \frac{3}{12} + \frac{2}{70} \\ \frac{-72-105+12}{420} \\ = -\frac{11}{28} \end{aligned}$$

12.

(a) Amoeba

**Explanation:**

Amoeba is irregular shaped and locomoting with false feet called pseudopodia. Amoeba is a unicellular organism found in dirty water and viewed under microscope.

13.

(a) Air exerts pressure in direction of sailing

**Explanation:**

It is easier to row a boat in direction of wind because the wind exerts a force on us in the same direction in which our boat is moving and makes our boat to move easily and faster.

14.

(d) proper diet is needed for the rapid growth taking place in their body.

**Explanation:**

Adolescents should be careful about what they eat, because proper diet is needed for the rapid growth taking place in their body.

15.

(a) generated in a pipe filled with air by moving the piston attached to the pipe up and down

**Explanation:**

generated in a pipe filled with air by moving the piston attached to the pipe up and down

16.

(c) Newton

**Explanation:**

The S.I. unit of force is Newton. All kinds of force are measured in terms of Newton which is equal to force that push a body of mass 1kg to a distance of 1meter.

17.

(d) Echo

**Explanation:**

The repetition of sound caused by the reflection of sound waves is called Echo. Echo is produced in large halls or in hilly areas due to reflection of sound.

18. (a) 1 Pa

**Explanation:**

The S.I. unit of pressure is Pascal. One Pascal is equal to the pressure that results from the action of one Newton of force on one meter square area.

So, 1 Pascal = 1 N / 1 sq m.

19.

(b) bedsheet

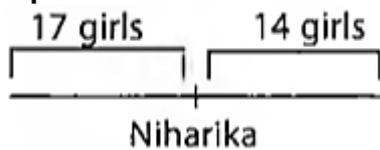
**Explanation:**

Mat is spread on the floor, but mat is called bedsheet.

20.

(d) 32

**Explanation:**



So, number of girls in the row = 17 + 1 + 14  
= 32

21.

(c) 56

**Explanation:**

The rule followed is:

$$18^2 - 15^2 = 324 - 225 = 99 \text{ and } 99 \div 9 = 11$$

$$\text{and } 30^2 - 27^2 = 900 - 729 = 171 \text{ and } 171 \div 9 = 19$$

$$\text{So, } 45^2 - 39^2 = 2025 - 1521 = 504 \text{ and } 504 \div 9 = \mathbf{56}$$

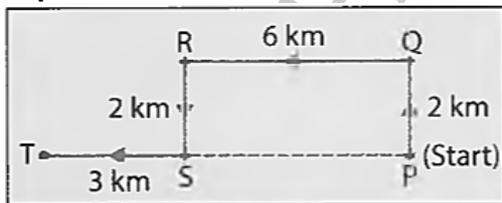
22. (a) Granddaughter

**Explanation:**

D is the daughter of B's son.

23. (a) 9 km

**Explanation:**



24.

(b) Figure (1)

**Explanation:**

Figure (1)

25.

(b) 4

**Explanation:**

a a c d j d j d m  m  d s m  s  m s m s

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