



**DAV PUBLIC SCHOOL IGIMS CAMPUS PATNA**  
**Summer Vacation Holiday Home Work (2025 - 26)**  
**Class - VII**

**Multiple Choice Questions (MCQ) are typically answered by marking the correct option on an OMR (Optical Mark Recognition) sheet.**

- To correctly fill out an OMR sheet, students should use a blue or black ballpoint pen, completely darkening the circles corresponding to their chosen answers. They should avoid folding, crinkling, or tearing the sheet, and refrain from using erasers or correction fluids.

**Mathematics**

1. Which of the following is a rational number?  
A.  $\sqrt{2}$                       B.  $\pi$                       C.  $\frac{3}{4}$                       D. 0.333...
2. The sum of two rational numbers is always a:  
A. Natural number                      B. Whole number                      C. Rational number                      D. Irrational number
3. Which of the following is not a rational number?  
A. 7                      B.  $-\frac{5}{2}$                       C. 0                      D.  $\sqrt{5}$
4. The reciprocal of  $\frac{3}{5}$  is:  
A.  $\frac{5}{3}$                       B.  $\frac{3}{5}$                       C.  $-\frac{5}{3}$                       D. 0
5. Rational numbers are closed under which of the following operations?  
A. Addition                      B. Subtraction                      C. Multiplication                      D. All of these
6. What is the multiplicative identity for rational numbers?  
A. 0                      B. 1                      C. -1                      D. None
7. Which of the following is equivalent to  $-\frac{2}{3}$ ?  
A.  $\frac{2}{-3}$                       B.  $-\frac{4}{6}$                       C.  $\frac{6}{-9}$                       D. All of these
8. The additive inverse of  $\frac{7}{9}$  is:  
A.  $\frac{9}{7}$                       B.  $-\frac{7}{9}$                       C. 7                      D. 0
9. Which of the following rational numbers is in standard form?  
A.  $-\frac{6}{-8}$                       B.  $\frac{4}{10}$                       C.  $-\frac{9}{12}$                       D.  $\frac{5}{-11}$
10. The product of two rational numbers is 1. If one number is  $\frac{5}{6}$ , the other is:  
A.  $\frac{5}{6}$                       B.  $-\frac{5}{6}$                       C.  $\frac{6}{5}$                       D.  $-\frac{6}{5}$
11. What is the result of multiplying  $-\frac{2}{3}$  and  $\frac{3}{4}$ ?  
A.  $-\frac{6}{12}$                       B.  $\frac{1}{2}$                       C.  $-\frac{1}{2}$                       D.  $-\frac{6}{7}$
12. Rational numbers are closed under which of the following operations?  
A. Addition                      B. Subtraction                      C. Multiplication                      D. All of the above
13. Rational numbers include:  
A. Only fractions                      B. Only whole numbers  
C. Integers and fractions                      D. Natural numbers only
14. What is the sum of  $\frac{3}{4}$  and  $-\frac{5}{4}$ ?  
A.  $\frac{8}{4}$                       B.  $-\frac{2}{4}$                       C.  $-\frac{1}{2}$                       D.  $-\frac{1}{4}$
15. Which of the following is the multiplicative identity for rational numbers?  
A. 0                      B. 1                      C. -1                      D.  $\frac{1}{2}$

## Science

1. Heat is a form of energy that gets transferred from a body at :
  - (a) lower temperature to higher temperature
  - (b) higher temperature to lower temperature
  - (c) clinical thermometer to laboratory thermometer
  - (d) laboratory thermometer to clinical thermometer
- 2 .Temperature is an indicator of the degree of :
  - (a) hotness or coldness
  - (b) absorb or radiation
  - (c) solid or liquid
  - (d) liquid or gass
- 3 . When a body is heated, various type of changes occur :
  - (a) physical changes
  - (b) chemical changes
  - (c) change of state
  - (d) all the above
- 4 . Thermometer is a device used to measure :
  - (a) temperature
  - (b) light
  - (c) energy
  - (d) mechanical work
- 5 .Clinical thermometer is used to measure the temperature of :
  - (a) animal body
  - (b) human body
  - (c) Fahrenheit
  - (d) Celsius
- 6 .The range of the clinical thermometer is from
  - (a) 35°C to 42°C.
  - (b) -10°C to 110°C
  - (c) 0°C to 32°C
  - (d) 36°C to 98°F
- 7 .The ordinary laboratory glass thermometer is based on the principle of
  - (a) thermal expansion of mercury on heating
  - (b) normal body temperature heating
  - (c) conductor to insulator
  - (d) insulator to conducto cyr
- 8 .The modes of transfer of heat:
  - (a) conduction
  - (b) convection
  - (c) radiation
  - (d) all the above
- 9 . Amoeba respire through the process of :
  - (a) diffusion
  - (b) osmosis
  - (c) lamella
  - (d) breathing
10. High levels of carbon dioxide in the body can be toxic, hence, it needs to be :
  - (a) removed
  - (b) stored
  - (c) absorbed
  - (d) exchanged
11. Stomata perform the function of :
  - (a) absorption of water
  - (b) absorption of nutrients
  - (c) movement of food
  - (d) exchange of gases
- 12 . Plants' root need to survive :
  - (a) carbon dioxide
  - (b) chlorophyll
  - (c) sunlight
  - (d) oxygen
13. Earthworms and leeches respire through their:
  - (a) lungs
  - (b) gills
  - (c) trachea
  - (d) skin
14. The process represented by the following equation :  
(glucose + oxygen ----- carbon dioxide + water + energy)
  - (a) is photosynthesis
  - (b) is transpiration
  - (c) is fermentation
  - (d) is aerobic respiration
15. The respiratory organs of crab , prawns and fish are:
  - (a) lungs
  - (b) gills
  - (c) skin
  - (d) tracheae

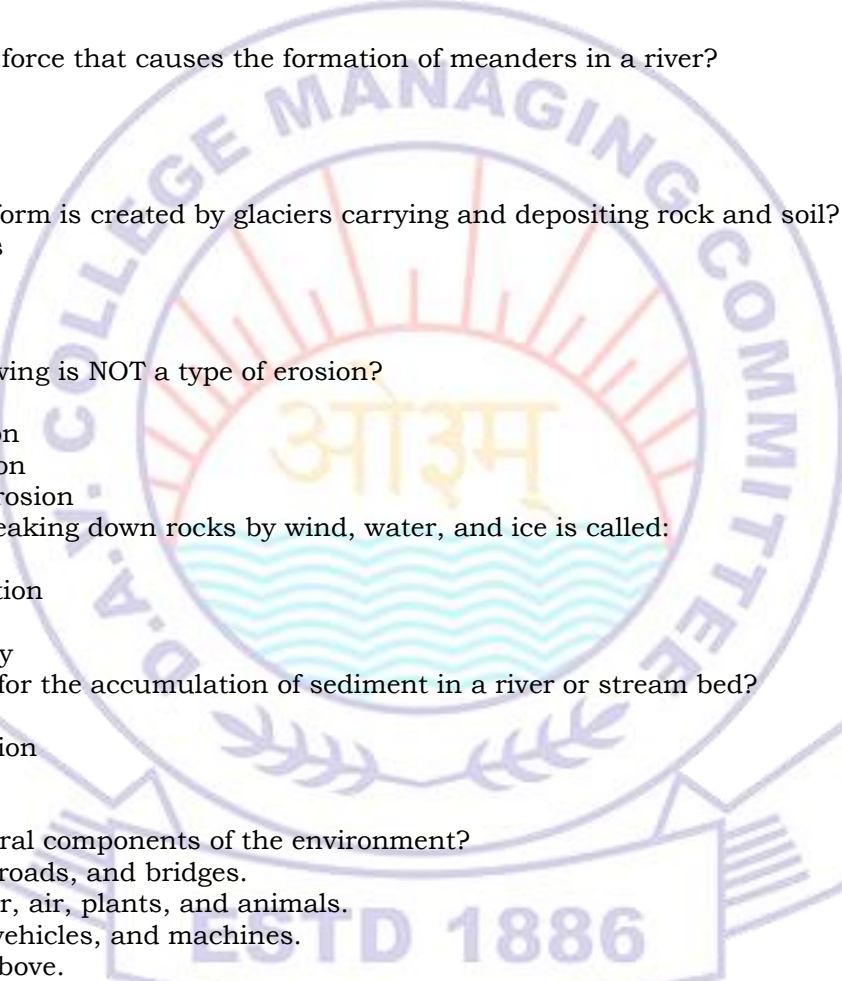
## English

### Choose the correct option to answer:-

- Q1. Anju is ..... 'Lata Mangeshkar' of our school:  
(a) a (b) the (c) an (d) no article
2. Damodar River was known as ..... 'Sorrow of Bengal':  
(a) The, the (b) The, a (c) No article, no article (d) A, the
3. Shatabdi is ..... fastest train in India :  
(a) No article, no article (b) The, the (c) A, the (d) The, no article
4. Alexander Pope said that ..... honest man is ..... noblest work of God:  
(a) the, the (b) an, a (c) an, an (d) an, the
5. .... Rome was not built in ..... day:  
(a) No article required, a (b) A, a (c) A, the (d) No article is required, the
6. ... ass is a beast of burden :  
(a) A (b) An (c) The (d) Both 'b' and 'c'
7. In the Rock-band, Anu plays..... guitar, and her brother Adi plays drums :  
(a) the, the (b) a, a (c) the, a (d) the, an
8. .... French is ..... easy language to learn:  
(a) The, an (b) No article required, an (c) A, an (d) No article required, a
9. .... Suez Canal has reduced the distance between Asia and Europe:  
(a) The (b) An (c) A (d) No article
10. Sonu goes to ..... school regularly:  
(a) the (b) a (c) an (d) no articles
11. .... 'Oliver Twist' is a famous novel by Charles Dickens :  
(a) The (b) A (c) An (d) No article
12. Ravi's father went to..... school to meet the principal:  
(a) the (b) a (c) an (d) no article
13. After the day's labor, Raghu felt sleepy, so he went to ..... bed:  
(a) the (b) a (c) an (d) no article
14. .... Tribune is the most popular newspaper in ..... Punjab:  
(a) The, no article (b) The, the (c) The, an (d) An, an
15. Mr. Kalam is ..... "Newton of India" :  
(a) the (b) an (c) a (d) no article

## Social Science

- 1) Which of the following is an example of an exogenic(external) force?  
(a) Earthquakes,  
(b) Volcanic eruptions,  
(c) River erosion,  
(d) Mountain formation.
- 2) What is the name of the process where water, wind, or ice wear away and transport rocks and soil?  
(a) Deposition,  
(b) Erosion,  
(c) Weathering, and  
(d) Sedimentation.
- 3) Which of the following is an example of an endogenic( internal) force?  
(a) Earthquakes  
(b) Sand dunes  
(c) Wind erosion  
(d) cliff
- 4) What type of landform is a U-shaped valley?  
(a) River valley  
(b) Floodplain  
(c) Glacial valley  
(d) Coastal plain
- 5) Which of the following is a depositional feature of a river?  
(a) V-shaped valley  
(b) Waterfall  
(c) Delta  
(d) Gorge
- 6) What is the process called where water, wind, or ice breaks down rocks?  
(a) Weathering  
(b) Erosion

- (c) Deposition  
(d) Sedimentation
- 7) Which of the following is a type of landform formed by wind erosion?  
(a) Delta  
(b) Sand dune  
(c) Ox-bow lake  
(d) U-shaped valley
- 8) Which of the following is an example of a depositional landform?  
(a) Valley  
(b) Cliff  
(c) Dune  
(d) Cave
- 9) The process of moving rocks and soil from one place to another is called:  
(a) Sedimentation  
(b) Weathering  
(c) Erosion  
(d) Deposition
- 10) What is the main force that causes the formation of meanders in a river?  
(a) Wind  
(b) Waves  
(c) Water flow  
(d) Ice
- 11) What type of landform is created by glaciers carrying and depositing rock and soil?  
(a) Sand dunes  
(b) Moraines  
(c) Deltas  
(d) Beaches
- 12) Which of the following is NOT a type of erosion?  
(a) Weathering  
(b) Wind erosion  
(c) Water erosion  
(d) Chemical erosion
- 13) The process of breaking down rocks by wind, water, and ice is called:  
(a) Deposition  
(b) Transportation  
(c) Weathering  
(d) Sedimentary
- 14) What is the term for the accumulation of sediment in a river or stream bed?  
(a) Erosion  
(b) Sedimentation  
(c) Deposition  
(d) Weathering
- 15) What are the natural components of the environment?  
(a) Buildings, roads, and bridges.  
(b) Land, water, air, plants, and animals.  
(c) Factories, vehicles, and machines.  
(d) All of the above.
- 





# DAV PUBLIC SCHOOL IGIMS CAMPUS, PATNA-14

NAME:-..... CLASS:-..... SEC:-.....

ROLL NO.- .....

MATHEMATICS	
S.N.	OPTION
1	(a) (b) (c) (d)
2	(a) (b) (c) (d)
3	(a) (b) (c) (d)
4	(a) (b) (c) (d)
5	(a) (b) (c) (d)
6	(a) (b) (c) (d)
7	(a) (b) (c) (d)
8	(a) (b) (c) (d)
9	(a) (b) (c) (d)
10	(a) (b) (c) (d)
11	(a) (b) (c) (d)
12	(a) (b) (c) (d)
13	(a) (b) (c) (d)
14	(a) (b) (c) (d)
15	(a) (b) (c) (d)

Teacher sign.

SCIENCE	
S.N.	OPTION
1	(a) (b) (c) (d)
2	(a) (b) (c) (d)
3	(a) (b) (c) (d)
4	(a) (b) (c) (d)
5	(a) (b) (c) (d)
6	(a) (b) (c) (d)
7	(a) (b) (c) (d)
8	(a) (b) (c) (d)
9	(a) (b) (c) (d)
10	(a) (b) (c) (d)
11	(a) (b) (c) (d)
12	(a) (b) (c) (d)
13	(a) (b) (c) (d)
14	(a) (b) (c) (d)
15	(a) (b) (c) (d)

Teacher sign.

ENGLISH	
S.N.	OPTION
1	(a) (b) (c) (d)
2	(a) (b) (c) (d)
3	(a) (b) (c) (d)
4	(a) (b) (c) (d)
5	(a) (b) (c) (d)
6	(a) (b) (c) (d)
7	(a) (b) (c) (d)
8	(a) (b) (c) (d)
9	(a) (b) (c) (d)
10	(a) (b) (c) (d)
11	(a) (b) (c) (d)
12	(a) (b) (c) (d)
13	(a) (b) (c) (d)
14	(a) (b) (c) (d)
15	(a) (b) (c) (d)

Teacher sign.

SOCIAL SCIENCE	
S.N.	OPTION
1	(a) (b) (c) (d)
2	(a) (b) (c) (d)
3	(a) (b) (c) (d)
4	(a) (b) (c) (d)
5	(a) (b) (c) (d)
6	(a) (b) (c) (d)
7	(a) (b) (c) (d)
8	(a) (b) (c) (d)
9	(a) (b) (c) (d)
10	(a) (b) (c) (d)
11	(a) (b) (c) (d)
12	(a) (b) (c) (d)
13	(a) (b) (c) (d)
14	(a) (b) (c) (d)
15	(a) (b) (c) (d)

Teacher sign.