



# VIDHVATH ACADEMY FOR COMPETITIVE EXAMS

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**SUBJECT WISE TEST SERIES:VST006**

**PHYSICAL GEOGRAPHY**

**TEST BOOKLET**

***Time Allowed: 60mins***

***Maximum Marks: 70***

## **INSTRUCTIONS**

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS BOOKLET DOES NOT HAVE ANY UNPRINTED OR TURN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
  2. ENCODE CLEARLY THE TEST BOOKLET SERIES A, B, C OR D AS THE CASE MAY BE IN THE APPROPRIATE PLACE IN THE ANSWER SHEET.
  3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. Do NOT write anything else on the Test Booklet.
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4. This Test Booklet contains 100 items (Questions). Each item is printed in English. Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response with you consider the best. In any case, choose ONLY ONE response for each item.
  5. You have to mark all your responses ONLY on the separate Answer Sheet provided. See direction in the answers sheet.
  6. All items carry equal marks. Attempt all items. Your total marks will depend only on the number of correct responses marked by you in the answer sheet. For every incorrect response  $1/4^{\text{TH}}$  of the allotted marks will be deducted.
  7. Before you proceed to mark in the Answer sheet the response to various items in the Test booklet, you have to fill in some particulars in the answer sheets as per instruction sent to you with your Admission Certificate.
  8. After you have completed filling in all responses on the answer sheet and the examination has concluded, you should hand over to Invigilator only the answer sheet. You are permitted to take away with you the Test Booklet.
  9. Sheet for rough work are appended in the Test Booklet at the end.

**DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ASKED TO DO SO**

1. Zero degree latitude and zero degree longitude lies in the
  - (A) Atlantic Ocean
  - (B) Arctic Ocean
  - (C) Indian Ocean
  - (D) Pacific Ocean
2. A plane starts flying from  $30^\circ$  Northern latitude and  $50^\circ$  Eastern longitude and lands at opposite end of the Earth, where will it land?
  - (A)  $30^\circ$  Northern latitude,  $50^\circ$  Western longitude
  - (B)  $30^\circ$  Southern latitude,  $50^\circ$  Western longitude
  - (C)  $50^\circ$  Northern latitude,  $30^\circ$  Western longitude
  - (D)  $30^\circ$  Southern latitude,  $130^\circ$  Western longitude
3. Which of the following phenomenon happens in India when the Sun shines vertically over the Tropic of Capricorn?
  - (A) High pressure develops over North-West India
  - (B) Low pressure develops over North-West India
  - (C) No change in pressure occurs over North-West India
  - (D) Temperature increases in North-West India
4. India was the part of ancient Gondwana land Supercontinent. It includes the following landmass of the present
  - (A) South America
  - (B) Africa
  - (C) Australia
  - (D) All of the above
5. A 'black hole' is a body in space which does not allow any type of radiation to come out. This property is due to its
  - (A) Very small size
  - (B) Very large size
  - (C) High density
  - (D) Very low density
6. The Milky Way is classified as
  - (A) Spiral Galaxy
  - (B) Electrical Galaxy
  - (C) Irregular Galaxy
  - (D) Round Galaxy
7. A person stood alone in a desert on a dark night and wanted to reach his village which was situated 5 km East of the point where he was standing. He had no instrument to find the direction but he located the pole star. The most convenient way now to reach his village is to walk in the
  - (A) Direction facing the pole star
  - (B) Direction opposite to the pole star
  - (C) Direction keeping the pole star to his left
  - (D) Direction keeping the pole star to his right
8. Which one of the following statements is correct with reference to our solar system?
  - (A) The Earth is the densest of all the planets in our solar system
  - (B) The predominant element in the composition of Earth is silicon
  - (C) The Sun contains 75 percent of the mass of the solar system
  - (D) The diameter of the Sun is 190 times that of the Earth
9. Which one of the following is known as 'Morning Star'?
  - (A) Mercury
  - (B) Venus
  - (C) Mars
  - (D) Saturn
10. When the length of day and night is equal the Sunrays falls perpendicular at
  - (A) North pole
  - (B) Equator
  - (C) South pole
  - (D) Tropic of cancer
11. A country by sending its 'SELENE' (Selenological and Engineering Explorer) in the orbit of the Moon became the first

country in Asia. The country which achieved this fame is

- (A) Japan
- (B) China
- (C) India
- (D) Pakistan

12. Assertion (A): A black hole is an astronomical entity that cannot be seen by telescope.

Reason (R): The gravitational field on a black hole is so strong that it does not allow even light to escape.

In the context of the above statements, which one of the following is correct?

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
- (C) (A) is true, but (R) is false
- (D) (A) is false, but (R) is true

13. Consider the following statements.

- 1. The axis of the Earth's magnetic field is inclined at 23 and half degree to the geographic axis of the Earth.
- 2. The Earth's magnetic pole in the Northern hemisphere is located on a peninsular in Northern Canada.
- 3. Earth's magnetic equator passes through Thumba in South India.

Which of the statements given above is/are correct?

- (A) 1, 2 and 3
- (B) 2 and 3
- (C) Only 2
- (D) Only 3

14. What is the difference between asteroids and comets?

- 1. Asteroids are small rocky planetoids, while comets are formed of frozen gases held together by rocky and metallic material.
- 2. Asteroids are found mostly between the orbits of Jupiter and Mars, while comets are found mostly between Venus and Mercury.

3. Comets show a perceptible glowing tail, while asteroids do not.

Which of the statements given above is/are correct?

- (A) 1 and 2
- (B) 1 and 3
- (C) Only 3
- (D) 1, 2 and 3

15. Which of the following are active volcanoes?

- 1. Aconcagua
- 2. Etna
- 3. Kilimanjaro
- 4. Vesuvius

Select the correct answer from the code given below.

- (A) 1 and 2
- (B) 1 and 3
- (C) 2 and 3
- (D) 2 and 4

16. Statement (A): Time interval at the dateline is 12 hours from the Greenwich.

Reason (R): Dateline is situated at 180° meridian.

Using following options choose the correct answer.

- (A) (A), (R) both are correct and (R) is the correct explanation of (A)
- (B) (A) and (R) both are correct, but (R) is not the correct explanation of (A)
- (C) (A) is correct, but (R) is false
- (D) (R) is correct, but (A) is false

17. Which of the following is not a great circle on the globe?

- (A) Equator
- (B) Prime meridian line
- (C) 60° East longitude
- (D) 60° North Latitude

18. Lunar Eclipse is caused when

- (A) Moon comes in between Earth and Sun
- (B) Earth comes between Sun and Moon
- (C) Sun comes between Earth and Moon
- (D) Sun and Moon coincide

19. Statement (A): Moving from one place on Earth to another place of high latitude, the weight of an object decreases.  
Reason (R): Earth is not perfect sphere.  
Choose the correct answer by using code given below  
(A) (A) and (R) both are true and (R) explains (A) properly  
(B) (A) and (R) both are true, but (R) does not explain (A) properly  
(C) (A) is true, but (R) is wrong  
(D) (A) is wrong, but (R) is true
20. Assertion (A): To orbit around the Sun the planet Mars takes lesser time than the time taken by the Earth.  
Reason (R): The diameter of the planet Mars is less than that of  
(A) Both (A) and (R) are true and (R) is the correct explanation of (A)  
(B) Both (A) and (R) are true, but (R) is not the correct explanation of (A)  
(C) (A) is true, but (R) is false  
(D) (A) is false, but (R) is true
21. Consider the following statements and answer the question with the help of code given below.  
Assertion (A): Only one side of the Moon's surface is visible from the Earth.  
Reason (R): The period of rotation of the Moon on its axis is equal to the period of its revolution round the Earth.  
(A) Both (A) and (R) are true and (R) is the correct explanation of (A)  
(B) Both (A) and (R) are true, but (R) is not the correct explanation of (A)  
(C) (A) is true, but (R) is false  
(D) (A) is false, but (R) is true
22. Consider the following statements regarding the Earth's atmosphere:  
1. The Troposphere is the lowest layer of the atmosphere and it is where all weather phenomena occur.  
2. The Stratosphere contains the ozone layer, which absorbs harmful ultraviolet radiation from the sun.

3. The Mesosphere is the warmest layer of the Earth's atmosphere.  
Which of the statements given above is/are correct?  
a) 1 only  
b) 1 and 2 only  
c) 2 and 3 only  
d) 1, 2, and 3
23. Which of the following landforms is created by wind action?  
a) U-shaped valley  
b) Sand dunes  
c) Fjord  
d) Meanders
24. Which of the following is a primary factor in the formation of ocean currents?  
a) Earth's rotation  
b) Temperature differences  
c) Wind patterns  
d) All of the above
25. What type of volcano is Mount St. Helens in the USA?  
a) Shield volcano  
b) Composite volcano  
c) Cinder cone volcano  
d) Lava dome
26. Which of the following factors does NOT affect the salinity of ocean water?  
a) Evaporation  
b) Wind  
c) Precipitation  
d) Latitude
27. What is a continental shelf?  
a) It is a part of the ocean which is really an extension of the land mass, but submerged  
b) It is that part where the ocean commences  
c) It is a land mass which is surrounded by water on all sides  
d) It is a part of the continent that is submerged in relatively shallow sea

28. Which of the following is a consequence of the Earth's axial tilt?
- The existence of day and night
  - The seasonal variation in temperature and daylight
  - The Coriolis effect
  - The gravitational pull between the Earth and the Moon

29. Regarding Earth's revolution around the Sun, consider the following statements:

- The Earth's revolution around the Sun causes the seasonal changes we experience.
- The Earth is closest to the Sun in January, a point known as perihelion.
- The duration of day and night is the same throughout the year at all latitudes due to Earth's revolution.

Which of the statements given above is/are correct?

- 1 and 2 only
- 1 and 3 only
- 2 and 3 only
- 1, 2, and 3

30. Consider the following statements regarding Earth's rotation:

- The Earth rotates from west to east, causing day and night.
- The rotational speed of the Earth is highest at the poles and lowest at the equator.
- Earth's rotation affects the direction of ocean currents and wind patterns.

Which of the statements given above is/are correct?

- 1 only
- 1 and 3 only
- 2 and 3 only
- 1, 2, and 3

31. Consider the following statements about volcanoes:

- A shield volcano is typically formed by low-viscosity lava that can travel great distances.

2. Stratovolcanoes are characterized by alternating layers of solidified lava and tephra.

3. Volcanoes are always found at tectonic plate boundaries.

Which of the statements given above is/are correct?

- 1 and 2 only
- 2 and 3 only
- 1 and 3 only
- 1, 2, and 3

32. Regarding the Aditya-L1 Mission:

1. Statement 1: Aditya-L1 aims to position itself in orbit around the Lagrangian Point 1 (L1).

2. Statement 2: Placing a satellite around L1 allows continuous observation of the Sun without eclipses.

Which is correct?

- Both are correct; Statement 2 explains Statement 1.
- Both are correct; Statement 2 does not explain Statement 1.
- Only Statement 1 is correct.
- Only Statement 2 is correct.

33. About Liquid Nano Urea:

1. Statement 1: It consists of urea in nano particle form.

2. Statement 2: It should be applied only after crops have developed leaves.

3. Statement 3: Developed by the National Agricultural Cooperative Marketing Federation of India (NAFED).

Which of these are true?

- Only one
- Only two
- All three
- None

34. Reverse Flipping in Indian Startups:

1. Statement 1: It involves returning the headquarters of an Indian company to India after being shifted overseas.

2. Statement 2: Common among Indian fintech startups preparing for IPOs.

Which is correct?

- 1 only

- b) 2 only
- c) Both
- d) None

**35.** On the India-Middle East-Europe Economic Corridor (IMEC):

1. Statement 1: The IMEC is a collaborative infrastructure project announced at the G20 Summit in 2023.
2. Statement 2: The corridor aims to establish a trade route between India, Saudi Arabia, and Europe, excluding the United States.

Which of these statements is/are correct?

- a) Only 1
- b) Only 2
- c) Both 1 and 2
- d) Neither 1 nor 2