

.. Define the terms

*Taille *Tithe *National assembly *Estate General *Treason

11. What is subsistence crisis? Why did it occur in France during old regime?
12. Discuss the role of women in French revolution.
13. What was reign of terror? Describe the role of Robespierre in it.
15. How far king was responsible for the French revolution?
16. How far was the influence society responsible for the French revolution?
17. What is the significance of the tennis court oath in French revolution?
18. Mention three main features of the French constitution formed in 1791 by national assembly.
19. Describe the legacy of French revolution
20. Describe the role of middle class in French revolution
21. Who were active citizens and passive citizens?

Pol.Sc.

1. Define the following terms.

*Democracy *Representative democracy *Direct Democracy *Constitutional monarchy

2. How can we say that Pakistan under General Parvez Musharraf was not democratic?
3. In what ways Mexico was not democratic under PR I?
4. Describe the major arguments against democracy.
5. Why is democracy considered the best form of government?
6. Differentiate between democratic and non-democratic government.
7. In what ways Robert Mugabe established un- democratic rule in Zimbabwe?
8. Explain broader meaning of democracy.
9. What are the major challenges to the working of democracy in India?
10. Is it true of democracy that it allows a way of correcting its mistakes and offers more dignity to all citizens?
12. Which members are allowed to contest for the elections in China?
13. How can you say that people did not have any choice in democratic Mexico?
14. How does democracy enhance the dignity of citizens?
15. How does democracy enhance the dignity of the citizens?
16. Why is democracy considered the best form of government?
17. How does democracy improve the quality of decision making?
18. Explain any three difficulties faced by the people in a non-democratic country.
19. Explain the representative democracy. Why is the representative democracy the most common form of government in modern times? Explain any four reasons. Or What is the representative democracy? Discuss its significance in the contemporary world.
20. Compare the democratic system in China with Mexico.

Geography

1. Mention the latitudinal and longitudinal extent of India.
2. Recall and write the important latitude passing through the centre of India.
3. State the island groups present in the Bay of Bengal and in the Arabian sea.
4. Name the southernmost tip of the Indian mainland.
5. State the name of the southernmost tip of Indian union that got submerged under water in 2004 during the tsunami.
6. What is the total area of India?
7. State the land boundary of India in kilometres
8. Specify the length of the Indian coastline
9. Name the mountain ranges that form the boundary of India on the north, north- west and north east.
10. Enlist the names of the water bodies forming the Indian peninsula.
11. Name the water body that is reduce the distance of India from Europe by 7000 km
12. Specify the names of any two merchandise treated from India in different countries
13. State the difference between provinces and princely state before 1947.
14. Name the Narrow channel separating India and Sri Lanka.
15. Which countries are sharing their borders with India but are not considered as part of the Indian subcontinent ?
16. Write the names of the states and union territories of India that share border with
 - A. Pakistan B. Nepal
 - C. China D. Bhutan
 - E. Bangladesh F. Myanmar
17. Area wise which is the smallest and the largest state in India.
18. Find out the states through which the tropic of Cancer passes.
19. Name the southern island neighbours of India.
20. Find the states that do not have an international border or lie on the coast.

MAPWORK

21. Locate and label the following on the political map of India.
 - A. Standard meridian Tropic of Cancer Neighbouring countries of India
22. Label the Indian states and capitals on the political map of India.

B SHORT ANSWERS

1. Analyse the strategic significance of India's location in Asia.
2. Give reasons for selecting 82 degree 30 minutes East as the standard meridian of India.
3. "India's contact with the world continues through ages" Give evidence to support the statement.
4. Explain the location of India.
5. Write a short note on the size of India.

Economics

I. Answer the following questions.

- What are the main activities of the people in village Palampur?
- What was the benefit of electricity in Palampur?
- Define working capital. Give examples.
- What is the multiple cropping system?
- State any three efforts which can be made to increase non-farming production activities in villages.
- What are the harmful effects of chemical fertilizers?
- Explain any five non-farm production activities undertaken in village Palampur.
- What are the different ways of increasing production on the same piece of land? Explain
- State the main factors for production of goods and services. Explain the same with the help of a flowchart
- Green Revolution was started in 1960s under this revolution modern farming methods were adopted to increase agriculture productivity. Explain.
- How does Multiple cropping help in farmer's prosperity? Give reason.
- What are the harmful effects of chemical fertilizers?

II. Read the text given below and answer the following questions:

Palampur is well-connected with neighbouring villages and towns. Raiganj, a big village, is 3 kms from Palampur. An all-weather road connects the village to Raiganj and further on to the nearest small town of Shahpur. This village has about 450 families belonging to several different castes. The 80 upper caste families own the majority of land in the village. Their houses, some of them quite large, are made of brick with cement plastering. The SCs (dalits) comprise one third of the population and live in one corner of the village and in much smaller houses some of which are of mud and straw. Most of the houses have electric connections. Electricity powers all the tube wells in the fields and is used in various types of small business. Palampur has two primary schools and one high school. There is a primary health centre run by the government and one private dispensary where the sick is treated. The story of Palampur, an imaginary village, will take us through the different types of production activities in the village. In villages across India, farming is the main production activity. The other production activities, referred to as non-farm activities include small manufacturing, transport, shop-keeping, etc. Every production is organised by combining land, labour, physical capital and human capital, which are known as factors of production.

- What are the factors of production?
- Define Money Capital.
- How many primary schools and high schools do Palampur has?
- Write a note on Human capital?

Physics

1. A particle is moving in a circle of radius 7m. Calculate the distance covered and the displacement when it completes 3 revolutions.
2. A car travelling at 36 km/h speeds up to 72 km/h in 5 seconds. What is its acceleration?
3. A train starting from rest moves with a uniform acceleration of 0.2 m/s^2 for 5 minutes. Calculate the speed acquired.
4. A motor cycle moving with a speed of 5m/s is subjected to an acceleration of 0.2 m/s^2 . Calculate the speed of the motor cycle after 10 second.
5. A car accelerates uniformly from 18 km/h to 36 km/h in 5 second. Calculate the acceleration.
6. Define acceleration. Write its S.I. unit.
7. A particle is moving in a circular path of radius r. What would be the distance travelled and displacement after half a circle?
8. A body starts to slide over a horizontal surface with an initial velocity of 0.5 m/s. Due to friction, its velocity decreases at the rate 0.05 m/s^2 . How much time will it take for the body to stop?
9. A body travels along a circular path of radius 70 m. After travelling half a revolution in 20 s, find the
 - (i) average velocity,
 - (ii) average speed.
10. Differentiate between
 - (a) speed and velocity
 - (b) distance and displacement.

Chemistry

11. What is the melting point of ice made from distilled water? Will the melting point increase or decrease if the ice is made from sea water? Give reason.
12. Discuss briefly the effect of decreasing temperature and increasing pressure on a gas
13. What is evaporation? In what way is it different from boiling?
14. Why does a gas fill a vessel completely?
15. Why are gases so easily compressible whereas it is impossible to compress a solid or a liquid
16. A sample of water was heated from 25°C to 35°C . How much was the rise in temperature on the Fahrenheit and Kelvin scales?
17. Why ice floats on water, although liquids generally have density than solids?
18. Explain the following:
 - (a) Acetone gives more cooling effect to our palm as compared to water when both are applied on palm.
 - (b) It is seen that temperature of the remaining liquid drops when evaporation takes place from its upper surface?

Biology

19. How are the following related to each other?
 - (a) chromatin network and chromosomes
 - (b) chloroplast and chlorophyll
 - (c) genes and D.N.A.
20. What is endoplasmic reticulum? Write its structure and main functions.
21. Write a brief note on the cell organelles that are single bounded and double bounded membranous structure. Mention their functions.
22. Mention the organelles responsible for the removal of waste and worn out cells and why?
23. What happens to plant cell when it is placed in hypotonic, isotonic, hypertonic solution?
24. Mention the major discoveries in the field of cytology.
25. State the differences between diffusion and osmosis.
26. Brief out major function of cell organelles in a tabular form.
27. Define the following terms endocytosis, plasmolysis, crenation?

Maths

1. Represent the real number $\sqrt{7}$ on the number line.
2. Represent the real number $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$ on the same number line.
3. Find the decimal expansion of $10/3$, $7/8$, and $1/7$.
4. Find three different irrational numbers between the rational numbers $5/7$ and $9/11$.
5. Find six rational numbers between 3 and 4.
6. Find five rational numbers between $3/5$ and $4/5$.
7. If $\sqrt{2} = 1.414$, $\sqrt{10} = 3.162$ and $\sqrt{5} = 2.236$, find the value of $\frac{\sqrt{10}-\sqrt{5}}{2\sqrt{2}}$ up to three places of decimals.
8. If a and b are rational numbers and $\frac{\sqrt{11}-\sqrt{7}}{\sqrt{11}+\sqrt{7}} = a - b\sqrt{77}$, find the values of a and b .
9. If $x = 4 - \sqrt{15}$, find the value of $x^2 + \frac{1}{x^2}$ and $x^4 + \frac{1}{x^4}$.
10. If $x = 2 + \sqrt{3}$, find the value of $x^2 + \frac{1}{x^2}$ and $x^4 + \frac{1}{x^4}$.
11. Show that 3.142678 is a rational number. In other words, express 3.142678 in the form of p/q , where p and q are integers and $q \neq 0$.
12. Express the following in the form of p/q , where p and q are integers and $q \neq 0$.
 - (i) $0.\underline{6}$
 - (ii) $0.4\underline{7}$
 - (iii) $0.\underline{001}$
 - (iv) $0.2\underline{6}$
13. Simplify the following:
 - (i) $(4\sqrt{3} - 2\sqrt{2})(3\sqrt{2} + 4\sqrt{3})$
 - (ii) $(2 + \sqrt{3})(3 + \sqrt{5})$
 - (iii) $(\sqrt{3} + \sqrt{2})^2$
14. Rationalise the denominator of the following:
 - (i) $\frac{1}{\sqrt{3}-\sqrt{5}}$
 - (ii) $\frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$
 - (iii) $\frac{4\sqrt{3}+5\sqrt{2}}{\sqrt{48}+\sqrt{18}}$
 - (iv) $\frac{3\sqrt{5}+\sqrt{3}}{\sqrt{5}-\sqrt{3}}$

15. If $a = 6 - \sqrt{35}$, find the value of $a^2 + \frac{1}{a^2}$.

16. Find the value of a and b in each of the following :

$$(i) \frac{3+\sqrt{2}}{3-\sqrt{2}} = a + b\sqrt{2} \quad (ii) \frac{4+3\sqrt{5}}{4-3\sqrt{5}} = a + b\sqrt{5} \quad (iii) \frac{5+2\sqrt{3}}{7+4\sqrt{3}} = a + b\sqrt{3}$$

17. Find the value of a if $\frac{6}{3\sqrt{2}-2\sqrt{3}} = 3\sqrt{2} - a\sqrt{3}$

18. Evaluate the following expression :

$$(i) \left(\frac{625}{81}\right)^{-\frac{1}{4}} \quad (ii) (6.25)^{\frac{3}{2}} \quad (iii) (0.000064)^{\frac{5}{6}}$$

19. Represent the real number $\sqrt{9.3}$ on the number line.

20. Find the value of $\frac{4}{(216)^{\frac{-2}{3}}} + \frac{1}{(256)^{\frac{-3}{4}}} + \frac{2}{(243)^{\frac{-1}{5}}}$

21. If $a = 5 + 2\sqrt{6}$ and $b = 1/a$ then what will be the value of $a^2 + b^2$?

22. Find the value of x, if $5^{x-3} \times 3^{2x-8} = 225$

23. If $9^{x+2} = 720 + 9^x$, find the value of $(4x)^{\frac{1}{x}}$.

24. Simplify : $\left(\frac{81}{16}\right)^{\frac{-3}{4}} \times \left[\left(\frac{25}{9}\right)^{\frac{-3}{2}} \div \left(\frac{5}{2}\right)^{-3}\right]$

25. Find five rational numbers between $3/5$ and $2/3$.