



VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

UNIT TEST II 2024

HOME ASSIGNMENT I

CLASS XI

PHYSICS

Very short Answer-

1. Define Distance. Write its SI Unit and dimension.
2. Define Displacement. Write its SI Unit and dimension.
3. Define Speed. Write its SI Unit and dimension.
4. Define Acceleration. Write its SI Unit and dimension.
5. Is Distance can be negative or zero? Explain.
6. Write equation of motion.
7. A particle is moving on a straight line with constant retardation of 1m/s^2 . what is the average speed of the particle on the last two meters before it stops (in m/s)
8. A ball is thrown upwards from the foot of a tower. The ball crosses the top of the tower twice after an interval of 4 second and the ball reaches ground after 8seconds then the height of tower in meters is.
9. A point moves with uniform acceleration and its initial speed and final speed are 2 m/s and 8 m/s respectively then, the space average of velocity over the distance moved is. (in m/s)
10. A body moves with constant acceleration covers 16 m and 24 m in successive intervals of 4 secs and 2 sec. Then its acceleration in m/s^2 is.

Short Answer Questions-

1. A ball is thrown vertically upwards with a velocity of 20 m s^{-1} from the top of a multistory building. The height of the point from where the ball is thrown is 25.0 m from the ground. (a) How high will the ball rise? and (b) how long will it be before the ball hits the ground? Take $g = 10\text{ m s}^{-2}$.
2. A baseball is moving at 25m/s when it is struck by a bat and moves off in the opposite direction at 35 m/s . If the impact lasted 0.010 s , find the baseball's acceleration during the impact. (in km/s^2)
3. A car goes from 20 to 30 km/h in 1.5 second. At the same acceleration, how long will it take the car to go from 30 to 36.7 km/h ? (in sec)
4. A particle moving in a straight line covers half the distance with speed of 3 m/s . The other half of the distance is covered in two equal time intervals with a speeds of 4.5 m/s and 7.5 m/s , respectively. Find the average speed of the particle during this motion.



VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

5. Proof motion in equation Ist by derivative method.
6. Proof motion in equation IInd by derivative method.
7. Proof motion in equation IIIrd by derivative method.
8. Proof motion in equation Ist by graph method.
9. Proof motion in equation IInd by graph method.
10. Proof motion in equation IIIrd by graph method.

Long Answer type question-

1. A woman starts from her home at 9.00 am, walks with a speed of 5 km h^{-1} on a straight road up to her office 2.5 km away, stays at the office up to 5.00 pm, and returns home by an auto with a speed of 25 km h^{-1} . Choose suitable scales and plot the x-t graph of her motion.
2. A drunkard walking in a narrow lane takes 5 steps forward and 3 steps backward, followed again by 5 steps forward and 3 steps backward, and so on. Each step is 1 m long and requires 1 s. Plot the x-t graph of his motion. Determine graphically and otherwise how long the drunkard takes to fall in a pit 13 m away from the start.
3. A car moving along a straight highway with speed of 126 km h^{-1} is brought to a stop within a distance of 200 m. What is the retardation of the car (assumed uniform), and how long does it take for the car to stop?
4. Two trains A and B of length 400 m each are moving on two parallel tracks with a uniform speed of 72 km h^{-1} in the same direction, with A ahead of B. The driver of B decides to overtake A and accelerates by 1 m s^{-2} . If after 50 s, the guard of B just brushes past the driver of A, what was the original distance between them?
5. On a two-lane road, car A is travelling with a speed of 36 km h^{-1} . Two cars B and C approach car A in opposite directions with a speed of 54 km h^{-1} each. At a certain instant, when the distance AB is equal to AC, both being 1 km, B decides to overtake A Before C does. What minimum acceleration of car B is required to avoid an accident?



VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

Elgin Road Civil Lines Prayagraj

Mob.: 9598050238

WORKSHEET-1
HOME ASSIGNMENT 2024
CLASS- XI
SUBJECT- Sociology

Dear students, learn this assignment and write it in your assignment copy.

1- Define the terms-

Capitalism, Metaphysical stage, Feminist theories, Values, Progeny

2- Very short answer type questions:

i. What is society?

ii. Give two characteristics of society.

iii. What is sociology list four names of the Indian sociologist

iv. Give four characteristics of sociology

v. What do you mean by Formal School?

3- Short answer type questions:

i. Give any four definitions of society.

ii. 'Sociology is a science'. Give four reasons to support your answer.

iii. Write a short note on the scope of sociology.

iv. State four differences between Sociology and Economics.

4- Long answer type questions:

i. Define society distinguish between human and animal societies.

ii. Why is August Comte called the father of sociology?



VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

Elgin Road Civil Lines Prayagraj

Mob.: 9598050238

HOME ASSIGNMENT 2024-25

CLASS-XI

SUBJECT- BOOK KEEPING AND ACCOUNTANCY

**LEARN AND SOLVE THE ASSIGNMENT IN YOUR ASSIGNMENT COPY
AND PRACTISE THE SIMILAR QUESTIONS**

(1) Learn, Solve and write the following -

1. What will be effect of the following on the Accounting Equation?

- (i) Started business with cash ₹ 45,000
- (ii) Opened a Bank Account with a deposit of ₹ 4,500
- (iii) Bought goods from M\s. Sun & Co. for ₹ 11,200

2. Show the Accounting Equation for the following transactions:

- (i) Gopinath started business with cash 25,000
- (ii) Purchased goods from Shyam 10,000
- (iii) Sold goods to Sohan costing 1,800 for 1,500
- (iv) Gopinath withdrew from business 5,000

3. Show the effect of the following transactions on the Accounting Equation:

- (i) Started business with cash ₹ 50,000.
- (ii) Salaries paid ₹ 2,000.
- (iii) Wages Outstanding ₹ 200.
- (iv) Interest due but not paid ₹ 100.
- (v) Rent paid in advance ₹ 150.

4. What will be the effect of the following on the Accounting Equation?

- (i) Harish started business with cash ₹ 18,000
- (ii) Purchased goods for Cash ₹ 5,000 and on credit ₹ 2,000





VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School

PRAYAGRAJ

(iii) Sold goods for cash ₹ 4,000 (costing ₹ 2,400)

(iv) Rent paid ₹ 1,000 and rent outstanding ₹ 200

5. Prepare an Accounting Equation and Balance Sheet on the following basis:

(i) Ajeet started business with cash ₹ 20,000.

(ii) He purchased furniture for ₹ 2,000.

(iii) He paid rent of ₹ 200.

(iv) He purchases goods on credit ₹ 3,000.

(v) He sold goods (cost price ₹ 2,000) for ₹ 5,000 on cash.

6. Prepare an Accounting Equation on the basis of the following transactions:

(i) Started business with cash ₹ 70,000.

(ii) Credit purchase of goods ₹ 18,000.

(iii) Payment made to creditors in full settlement ₹ 17,500.

(iv) Purchase of machinery for cash ₹ 20,000.

(v) Depreciation on machinery ₹ 2,000.

7. Prove that the Accounting Equation is satisfied in all the following transactions of Suresh.

(i) Commenced business with cash ₹ 60,000.

(ii) Paid rent in advance ₹ 500.

(iii) Purchased goods for cash ₹ 30,000 and credit ₹ 20,000.



VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

Elgin Road Civil Lines Prayagraj

Mob.: 9598050238

- (iv) Sold goods for cash ₹ 30,000 costing ₹ 20,000.
- (v) Paid salary ₹ 500 and salary outstanding being ₹ 100.
- (vi) Bought motorcycle for personal use ₹ 5,000.

8. Show an Accounting Equation on the basis of the following transactions:

- (i) Sunil started business with cash 1,50,000
- (ii) Opened a Bank Account by depositing ₹ 25,000 out of cash
- (iii) He sold his personal car for ₹ 50,000 and deposited the amount in the firm's Bank Account
- (iv) He purchased a building and furniture for 1,00,000
- (v) He purchased goods from Ram on credit 50,000
- (vi) He paid cartage 500
- (vii) He sold to Shyam on credit goods costing ₹ 6,000 for 9,000
- (viii) Received rent from tenants 1,000
- (ix) Received security deposit from tenants 1,500
- (x) Purchased stationery for cash 100
- (xi) Invested in shares (personal) 50,000
- (xii) Received interest in cash 200
- (xiii) Introduced fresh capital 25,000
- (xiv) Goods destroyed by fire 500

9. What do you mean by the term Accounting Equation? Write down the formula for it.





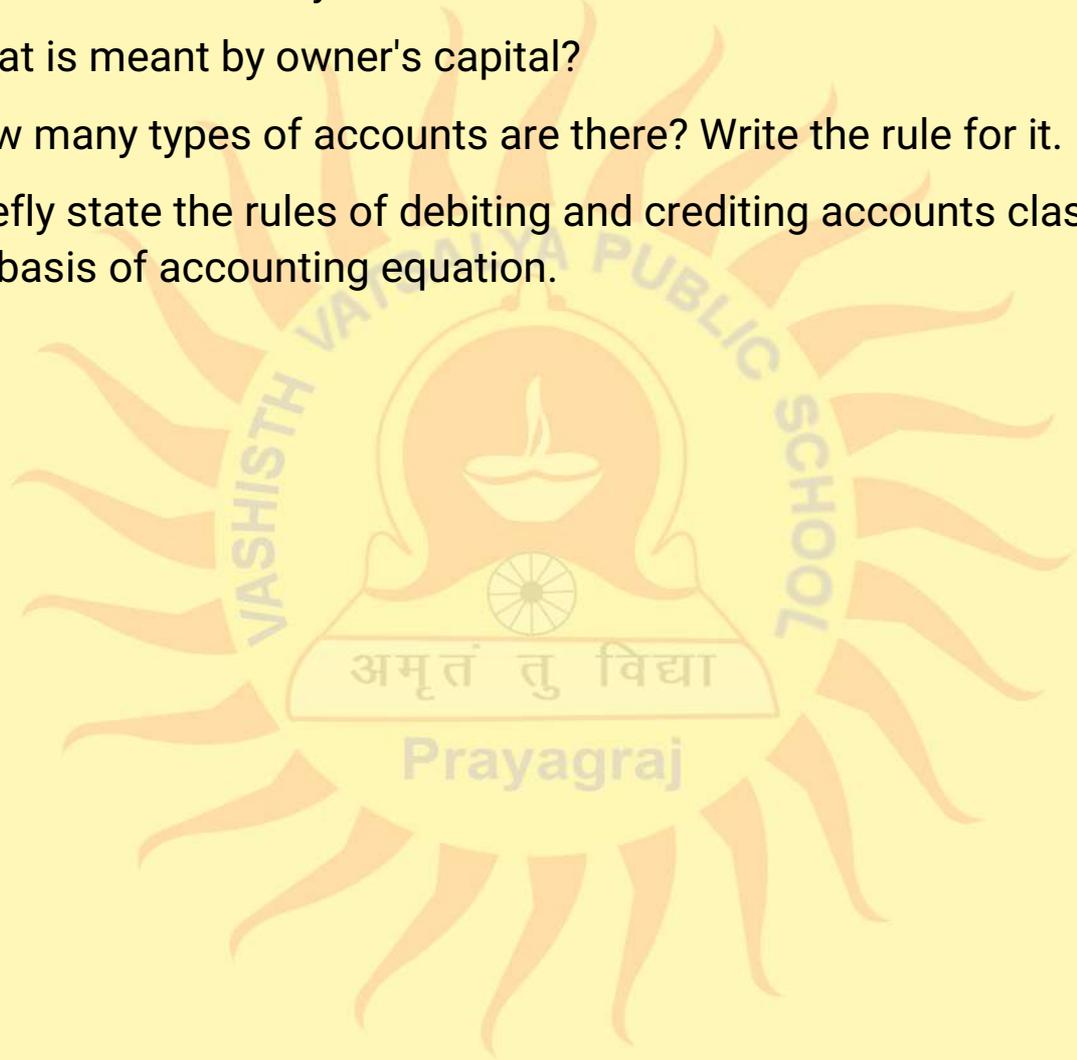
VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

Elgin Road Civil Lines Prayagraj

Mob.: 9598050238

10. Explain the process of preparing accounting equation.
11. Explain the effect of Transactions on accounting equation.
12. What do we mean by debit and credit?
13. What is meant by owner's capital?
14. How many types of accounts are there? Write the rule for it.
15. Briefly state the rules of debiting and crediting accounts classified on the basis of accounting equation.





VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

WORKSHEET-1 CLASS- 11 SUBJECT-BIOLOGY

Very Short Answer Questions:

1. Define prokaryotes.
2. Mention one characteristic feature of Kingdom Monera.
3. What are mesosomes?
4. Name the pigment present in cyanobacteria.
5. Give an example of a nitrogen-fixing bacteria.
6. What is endospore formation?
7. Which group of bacteria perform photosynthesis?
8. Define heterotrophic bacteria.
9. Name two common shapes of bacteria.
10. Give an example of a chemosynthetic bacterium.
11. What are protozoans?
12. Name the locomotory structure of Amoeba.
13. What is conjugation in Paramecium?
14. Mention one distinguishing feature of Kingdom Protista.
15. Name the pigment responsible for the red color in Euglena.

Short Answer Questions:

16. Explain the significance of bacteria in the nitrogen cycle.
17. Describe the structure of a bacterial cell.
18. Differentiate between autotrophic and heterotrophic bacteria.
19. How do bacteria reproduce asexually?
20. Discuss the economic importance of bacteria.
21. Describe the locomotion in Euglena.
22. Explain the reproduction in Amoeba.
23. Differentiate between binary fission and multiple fission.
24. Discuss the harmful effects of protozoans.
25. Explain the importance of Kingdom Protista in the ecosystem.



VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

Long Answer Questions:

26. Discuss the ecological role of bacteria in wastewater treatment.
27. Explain the structure and function of the cell wall in bacteria.
28. Describe the process of nitrogen fixation in bacteria.
29. Discuss the diversity in locomotory structures among protozoans.
30. Explain the classification and characteristics of Kingdom Protista.





VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

Elgin Road Civil Lines Prayagraj

Mob.: 9598050238

HOME ASSIGNMENT 2024-25

CLASS-XI

SUBJECT- BUSINESS STUDIES

**LEARN AND SOLVE THE ASSIGNMENT IN YOUR ASSIGNMENT COPY
AND PRACTISE THE SIMILAR QUESTIONS**

1. Explain the term Joint Hindu Family, Partnership, Company.
2. Is it necessary for every company to file a prospectus?
3. Which forms of business organisation considered to be the most advantageous on the basis of:
 - (a) Ease of formation.
 - (b) Continuity.
 - (c) Availability of capital.
 - (d) Cost of formation.
 - (e) Transfer of ownership.
 - (f) Flexibility.
4. Gurpreet, Subhash and Poonam are partners of a garment manufacturing firm is planning to manufacture bags for the utilisation of waste material of one of their garment units. They decided that this manufacturing unit will be set up in a rural area of Rajasthan where people have very less job opportunities and labour is available at very low rates. They also decided to donate 10% of the revenue generated from the sale of bags to a nearby Orphanage. Out of three partners, Poonam is that partner whose relation with the firm is not known to the general public.
 - (a) Which type of human activity is highlighted in the above case?





VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School

PRAYAGRAJ

- (b) Name the category of the human activity identified in (a) above.
- (c) In the above case, which type of partner Poonam is?
- (d) Identify any two values which are reflected in the above para.
5. For which of the following types of business do you think a partnership form of organisation would be more suitable, and why?
- Grocery store.
 - Medical clinic.
 - Legal consultancy
 - Craft centre.
 - Internet cafe.
 - Chartered accountancy firm.
6. Difference between MOA and AOA.
7. Difference between Private and Public Company.
8. Explain the different types of Partners.
9. What do we mean by partnership deed?
10. Explain the features of Joint Hindu family.
11. Explain different types of Cooperative society.
12. What are the advantages and disadvantages of Sole proprietorship.
13. Give five differences between Sole proprietorship and Partnership.
14. Is joint Hindu family founded all over world?
15. How many types of Joint Hindu family are there? Explain.



VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

Elgin Road Civil Lines Prayagraj

Mob.: 9598050238

HOME ASSIGNMENT 2024-25

CLASS-XI

ECONOMICS

Answer the following questions:

1. What are the two sources of data ? Define
2. In what parameters is the statistical information published in the census of India?
3. When is a direct personal investigation suitable for primary data collection?
4. What are the qualities of a good Questionnaire?
5. Why is a pilot survey important?
6. Define Sample and Census Method of data Collection.
7. Define random sampling and its method ?
8. What is purposive or deliberate sampling?
9. Define stratified and mixed sampling?
10. What is Quota Sampling?
11. What is the universe in statistics?
12. What is Convenience Sampling?
13. What are the types of Questionnaire?
14. What is the difference between Enumerator's and Mail Questionnaire?
15. Differentiate between Schedule and Questionnaire?
16. What are Sampling and Non Sampling errors?
17. Do sample provide better results than surveys? Give any four reasons in support of your answer.
18. What are the requirements of a good Sample?
19. What are the main functions of National Sample Survey Organisation (NSSO).
20. Differentiate between Primary and secondary method of data collection.



**UNIT TEST II 2024
HOME ASSIGNMENT
CLASS: XI
MATHEMATICS**

Note: First practice the chapters of Unit Test I, then solve the Home Assignment.

1. Simplify: $\sin(180^\circ+\theta) \cos(360^\circ-\theta) \tan(270^\circ-\theta) \sec(90^\circ+\theta) \tan(-\theta) \sin(270^\circ+\theta)$.
2. Express $\sin 4\theta - \sin 2\theta$ as product of trigonometric functions.
3. In any quadrilateral ABCD, prove that $\sin(A+B) + \sin(C+D) = 0$.
4. Prove that $\tan(\pi/2 - x) \sec(\pi-x) \sin(-x) \sin(\pi+x) \cot(2\pi-x) \operatorname{cosec}(\pi/2 - x) = 1$
5. Express $2\sin \theta \cos 3\theta$ as sum or difference of trigonometric functions.
6. Prove that $(\cos 2B - \cos 2A) (\sin 2B + \sin 2A) = \tan(A - B)$
7. Prove that $1 + \cos 2x + \cos 4x + \cos 6x = 4\cos x \cdot \cos 2x \cdot \cos 3x$
8. Show that $\sin 2x + 2 \sin 4x + \sin 6x = 4\cos^2 x \sin 4x$.
9. Prove that, $\sin A \cdot \sin 2A + \sin 3A \cdot \sin 6A \sin A \cdot \cos 2A + \sin 3A \cdot \cos 6A = \tan 5A$.
10. Find the value of $\cos 1^\circ \cos 2^\circ \cos 3^\circ \dots \cos 179^\circ$
11. Find the degree measure corresponding to the following radian measures :
(i) $(9\pi/5)^c$ (ii) $(-4)^c$ (iii) $(7\pi/6)^c$
12. Find the radian measure corresponding to the following degree measures:
(i) 300° (ii) $125^\circ 30'$ (iii) $7^\circ 30'$
13. The angles of triangle are in the ratio 3 : 4 : 5. Find the smallest angle in degrees and greatest angle in radians.
14. The perimeter of a certain sector of a circle is equal to the length of the arc of the semicircle having the same radius express the angle of the sector in degrees, minutes and seconds.
15. The minute hand of the clock is 10 cm long. How far does the tip of the hand move in 20 minutes?



HOME ASSIGNMENT-1 (2024-25)
CLASS- XI
CIVICS

Multiple choice questions:-

1. Which one of the following best defines “freedom” in a political context?

- a) Absence of government interference
- b) Ability to do whatever one pleases
- c) Pursuit of individual interests without any limits
- d) Ability to participate in decision-making processes that affect one's life

2. Which part of the Indian Constitution includes Fundamental Rights?

- a) Part I b) Part II c) Part III d) Part IV

3. Who is often regarded as the “Father of the Indian Constitution”?

- a) Jawaharlal Nehru
- b) Dr. B.R. Ambedkar
- c) Mahatma Gandhi
- d) Sardar Vallabhbhai Patel

4. According to the chapter, freedom is not an absolute concept but a _____ one.

- a) Relative b) Constant
- c) Ethical d) Universal

5. Which Fundamental Right ensures protection against discrimination based on religion, race, caste, sex, or place of birth?

- a) Right to Freedom
- b) Right to Equality
- c) Right to Life and Personal Liberty
- d) Right against Exploitation

Very short answer type questions:

- 1. What do you mean by a Socialist state?**
- 2. What do you mean by ‘Rights’?**
- 3. Give any three definitions of Liberty.**
- 4. What is the nature of the state according to the preamble of the constitution?**

5. **Mention any four Economic Rights of a citizen.**
6. **How many Articles and Scheduled are there in the Indian Constitution?**
7. **What do you mean by Political Liberty?**
8. **What is 'Writ of Mandamus'?**
9. **Describe any two safeguards of Liberty.**
10. **What do you understand by National Liberty?**

Short answer type questions:

1. **What is Civil Liberty?**
2. **What do you understand by Moral Rights?**
3. **Explain 'India is a Socialist, Secular, Sovereign, Democratic, Republic'.**
4. **What are the reasonable restrictions on the Right to Freedom?**
5. **What is the role of the state in upholding freedom of its citizens?**
6. **Write a short note on Judicial Review.**
7. **Describe any four kinds of Liberty.**
8. **Give five characteristics regarding the process of amendment in the constitution.**
9. **What is the importance of Fundamental Rights?**
10. **Which of the Fundamental rights is in your opinion the most important right? Summarize its provisions and give arguments to show why it is most important.**

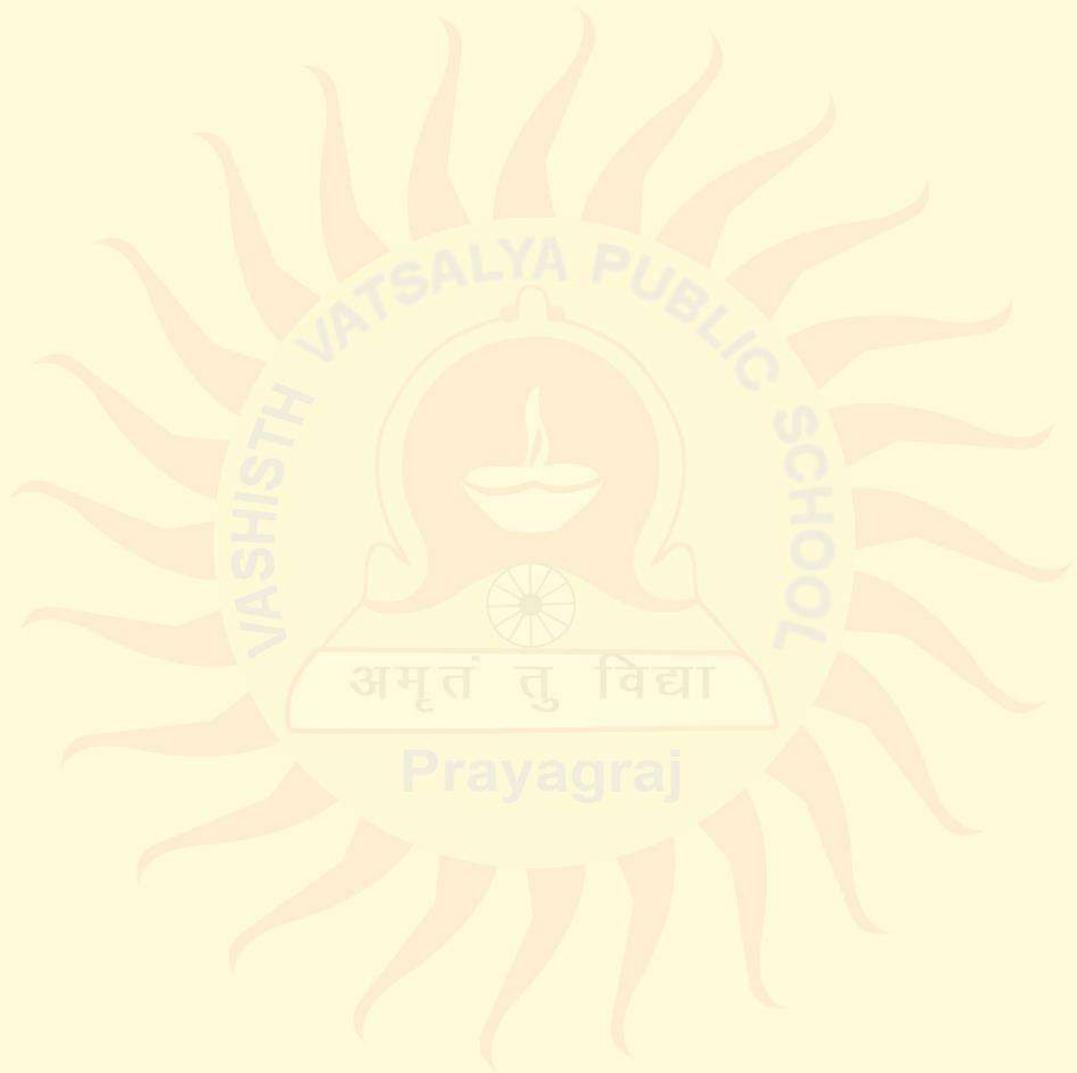
Long answer type questions:

1. **Describe the main sources of Indian Constitution.**
2. **What do you mean by Directive Principles of State Policy? What is their importance?**
3. **What is Harm principle? Explain**
4. **Explain the Fundamental Duties of a citizen in constitution of India.**
5. **Explain the following :-**
 - a- **Constitutionalism**
 - b- **Cabinet mission plan**
 - c- **Preamble**
 - d- **Unwritten Constitution**



VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ





HOME ASSIGNMENT -1 (2024-25)

**CLASS- XI
EDUCATION**

1. Definite answer type questions:

- i. What is the etymological meaning of the word “Introspection”?**
- ii. What are the three elements of education as a tri-polar process?**
- iii. “Religion is the inner-most core of education.” Who said so?**
- iv. Under whose chairmanship, a conference for National Integration was held in the year 1961?**
- v. What is the nature of educational Psychologist?**
- vi. “Real aim of education is man’s emancipation.” Who said this?**
- vii. Under whose chairmanship, University Education Commission was appointed?**
- viii. Under whose chairmanship, secondary Education Commission was appointed?**
- ix. Under whose chairmanship, National Education Commission was appointed?**
- x. Name the method most widely used for establishing cause effect relationship in psychological phenomena.**

2. Very short answer type questions:

- i. What do you understand by nationalism?**
- ii. How would you treat education as knowledge and experience?**
- iii. What is the main purpose served by case-history method in educational psychology?**

iv. Social evil prevailing in any society can only be eliminated by imparting right education.

v. Device psycho- annalistic method?

vi. What is the main name of literacy movement?

vii. What is the literal meaning of the term 'education'?

viii. How the classrooms are the actual place of social learning?

ix. How psychology help in managing School subjects in a psychological sequence?

x. What is the formal form of education?

3. Short answer type questions:

i. Briefly write the aims of education as propounded by National Education Commission.

ii. Compare individual aims with the social aims of education.

iii. Distinguish between education and instruction.

iv. Why knowledge of individual differences among the student in the classroom is essential?

v. What is the utility of education in our life? Discuss briefly.

vi. What do you understand by Shiksha Shastra? What is the importance of Shiksha Shastra for a teacher?

vii. What are the steps taken by our government for promotion of national integration?

viii. Briefly narrate the limitations of educational psychology.

ix. How educational psychology helps in the removal of the problem of discipline?

x. What is the reason for that exceptional qualities among the children should essentially be learnt?

Long answer type questions:

- i. Clear the meaning of educational psychology and discuss its utility in detail**
- ii. What are the various National aims of education?**
- iii. Discuss the functions performed by education in brief. Which of the functions is most important according to your view?**
- iv. What is the importance of education in your life? Discuss formal and informal form for the education.**
- v. What do you understand from educational psychology? Why students should be taught about educational psychology?**



VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ





VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

WORK SHEET -1 CLASS 11TH HISTORY

Very short answer type questions:

- Q.1 In which languages was Roman history written?
- Q.2 What do you mean by the 'Augustan age'?
- Q.3 Who were the main players in the political history of the Empire?
- Q.4 Who was Olympiodorus?
- Q.5 Who was Papyrus?
- Q.6 Who was Tiberius?
- Q.7 What does 'late antiquity' mean?
- Q.8 What was Dressel 20 in Spain?
- Q.9 What does frankincense mean?
- Q.10 What was Diocletian?

Short answer type questions:

- Q.1 If you have lived in the Roman Empire, where would you rather have lived- in the town or in the countryside? Explain. Why?
- Q.2 How slaves were treated after murder of Lucius Pedanius by his slave Secundus? What was the reaction of crowd at that time?
- Q.3 What does 'Post -Roman' mean in the 540s?
- Q.4 What has been the strategy of Spanish to capture market for olive oil?
- Q.5 Who were barbarians?
- Q.6 Write about geographical situation of Roman Empire.
- Q.7 Mention the striking features of Roman urban life.
- Q.8 How did Augustus region witness the progress made in the field of art and literature?
- Q.9 Write some administrative reforms introduced by Emperor Diocletian.
- Q.10 Compare the achievements of the Roman people with those of Greek in any five spheres.

Long answer type questions:

- Q.1 What do you think about the importance of Latin and Greek languages in the Roman empire?
- Q.2 Explain the system of administration governed by politicians of senatorial rank in Rome.
- Q.3 How was economic scenario of the Roman Empire?
- Q.4 "The Roman were the great law givers". justify the statement.
- Q.5 Explain, how the cultural diversity of Roman Empire was reflected in many ways and at many levels?

Map related questions

On a world map show the following places :-

1. On the map of Europe and North Africa mark and locate some of important towns of Mesopotamian Civilisation.
2. On the map mark and locate the following cities/towns:



VASHISTH VATSALYA PUBLIC SCHOOL

(i) Mecca, (ii) Medina, (iii) Baghdad, (iv) Ctesiphon, (v) Bukhara, (vi) Samarqand

An English Medium Co-Educational School

PRAYAGRAJ

Historical Events:

Mention the importance of the following dates in the world history :

1. 753 B.C.
2. 510 B.C.
3. 510 B.C. 27 B.C.
4. 264 B.C. 146 B.C.
5. 264 B.C.-246 B.C.
6. 218-201 B.C.
7. 149-146 B.C.
8. 44 B.C.
9. 31 B.C.
10. 27 B.C.
11. 14 A.D.
12. 30 A.D.
13. 66 A.D.
14. 98-117 A.D.
15. 140-160 A.D.
16. 225 A.D.
17. 253-268 A.D.
18. 248 A.D.
19. 306-337 A.D.
20. 312 A.D.
21. 324 A.D.
22. 337-61 A.D.
23. 364-75 A.D.
24. 375-78 A.D.
25. 379-395 A.D.
26. 395 A.D.
27. 406 A.D.
28. 410 A.D.
29. 410 A.D.
30. 455 A.D.

NOTE: IN CASE ANY PROBLEM CONTACT ON WHATSAPP





UNIT TEST II- 2024-25

WORKSHEET 1

CLASS: XI

CHEMISTRY

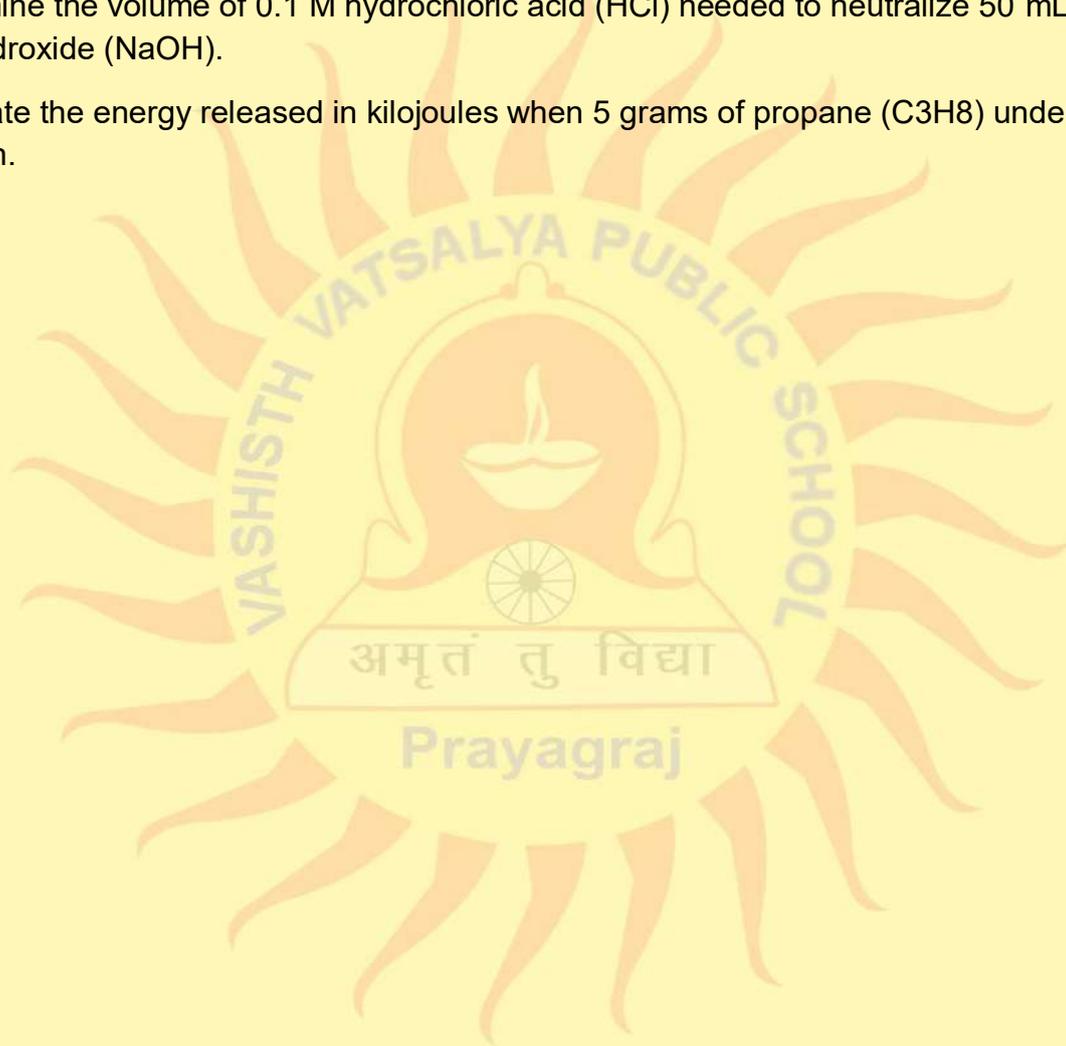
1. Calculate the number of protons, neutrons, and electrons in an atom with atomic number 20 and mass number 40.
2. Determine the molar mass of water (H₂O).
3. Calculate the concentration of a solution if 5 moles of solute are dissolved in 2 liters of solvent.
4. Calculate the percent composition of carbon in carbon dioxide (CO₂).
5. Determine the volume of 0.5 moles of helium gas at standard temperature and pressure (STP).
6. Calculate the pH of a solution with a hydrogen ion concentration of 1×10^{-4} M.
7. Determine the number of moles of sodium hydroxide (NaOH) needed to neutralize 25 mL of 0.1 M hydrochloric acid (HCl).
8. Calculate the number of grams of magnesium (Mg) required to react completely with 2 moles of hydrochloric acid (HCl).
9. Determine the oxidation state of sulfur in sulfuric acid (H₂SO₄).
10. Calculate the heat released when 50 grams of methane (CH₄) undergoes combustion.
11. Determine the empirical formula of a compound composed of 40% carbon, 6.7% hydrogen, and 53.3% oxygen by mass.
12. Calculate the mass of potassium chlorate (KClO₃) needed to produce 10 moles of oxygen gas (O₂) upon decomposition.
13. Determine the molarity of a solution if 0.25 moles of solute are dissolved in 500 mL of solution.
14. Calculate the volume of 0.2 M sulfuric acid (H₂SO₄) required to neutralize 25 mL of 0.1 M sodium hydroxide (NaOH).
15. Determine the limiting reactant and the mass of the excess reactant remaining in a reaction between 25 grams of iron (Fe) and 30 grams of oxygen (O₂) to produce iron(III) oxide (Fe₂O₃).
16. Calculate the number of grams of calcium carbonate (CaCO₃) needed to produce 1 mole of calcium oxide (CaO) upon heating.



VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

17. Determine the percent yield of a reaction if the actual yield is 45 grams and the theoretical yield is 50 grams.
18. Calculate the concentration of a solution if 25 grams of solute are dissolved in 500 mL of solution.
19. Determine the volume of 0.1 M hydrochloric acid (HCl) needed to neutralize 50 mL of 0.2 M sodium hydroxide (NaOH).
20. Calculate the energy released in kilojoules when 5 grams of propane (C_3H_8) undergoes combustion.





VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

Elgin Road Civil Lines Prayagraj

Mob.: 9598050238

WORKSHEET-3
HOME ASSIGNMENT 2024
CLASS- XI
SUBJECT- Psychology

Dear students, learn this assignment and write it in your assignment copy.

1- Define the term:

Development, Phenotype, Animism, Centration, Egocentrism

2- Very short answer type questions:

- i. What do you understand by maturation?**
- ii. Give the meaning of teratogens.**
- iii. What do you know about intuitive thought?**
- iv. Define the term attachment?**
- v. Define the term delinquency?**

3- Short answer type questions:

- i. Describe the prenatal stage of development.**
- ii. Explain the development of sensory abilities in newborns.**
- iii. Discuss the environment factors that influence development.**
- iv. Explain eating in adolescents.**

4- Long answer type question:

- i. Discuss the challenges faced by old age people.**
- ii. Discuss the challenges of marriage, parenthood and family faced by adults.**