



VASHISTH VATSALYA PUBLIC SCHOOL

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PRAYAGRAJ

WORK SHEET -1 CLASS 12TH HISTORY

Very short answer type questions:

- Q.1 Explain the term 'gotra'.
- Q.2 Mention four places associated with the life of the Buddha.
- Q.3 Throw light on the significance of Manusmriti.
- Q.4 What do you mean by Jataka texts?
- Q.5 What do you mean by 'Dharma Chakra Parivartana'?
- Q.6 Who was the original author of the Ramayana?
- Q.7 Why the Stupa's were built?
- Q.8 Define the system of exogamy. Give one reason for adopting it.
- Q.9 Mention one of the unique features of early temples built during 600 BCE - 600 CE. Give one example
- Q.10 Mention two such populations which were beyond the four Varnas and were viewed with suspicion. Give one characteristic of each.

Short answer type questions:

- Q.1 Explain why did the elite families accord much importance to patriliney?
- Q.2 Describe the main features of early temples. How did the chief culture of the Kailash temple at Ellora express his amazement after its completion?
- Q.3 Compare and contrast the dharma or norms mentioned in the stories of Drona, Hidimba and Matanga.
- Q.4 Describe the message of lord Mahavira on life and Karma.
- Q.5 What did B.Lal note about the houses in the second phase of Mahabharata period (C 12th- 7th century BCE). Explain
- Q.6 The following is an excerpt from the Mahabharata, in which Yudhishthira, the eldest Pandava, speaks to Sanjaya, a messenger:

Sanjaya, convey my respectful greetings to all the Brahmanas and the chief priest of the house of Dhritarashtra. I bow respectfully to teacher Drona I hold the feet of our preceptor Kripa... (and) the chief of the Kurus. The great Bhishma. I bow respectfully to the old king (Dhritarashtra). I greet and ask after the health of his son Duryodhana and his younger brother Also greet all the young Kuru warriors who are our brothers, sons and grandsons Greet above all him, who is to us like father and mother, the wise Vidura (born of a slave woman) I bow to the elderly ladies who are known as our mothers. To those who are our



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wives you say this, "I hope they are well-protected". Our daughters-in-law born of good families and mothers of children greet on my behalf. Embrace for me those who are our daughters... The beautiful, fragrant, well-dressed courtesans of ours you should also greet. Greet the slave women and their children, greet the aged, the maimed (and) the helpless ...

Try and identify the criteria used to make this list-in terms of age, gender, kinship ties. Are there any other criteria? For each category, explain why they are placed in a particular position in the list.

Q.7 Discuss the development in sculpture and architecture associated with the rise of Vaishnavism and Shaivism.

Q.7 Discuss how and why Stupa's were built.

Q.8 Describe whether kings in early States were invariably Kshatriyas.

Q.9 In what ways was the Buddhist theory of a social contract different from the Brahmanical view of society derived from the Purusha Sukta?

Q.10 Discuss the role of the begums of Bhopal in preserving the stupa at Sanchi.

Long answer type questions:

Q.1 How did the historians classified the content and language of Mahabharata? Explain.

Q.2 Why did women and men join the Sangha?

Q.3 Explain the relationship between the Varna system and the occupation according to the Brahmanical texts. How did the Brahmanas reinforce these?

Q.4 To what extent does knowledge of Buddhist literature help in understanding the sculpture at Sanchi?

Q.5 Discuss the evidence that suggest that Brahmanical prescriptions about kingship and marriage were not universally followed.

Map related questions

On a map of India show the following places :-

1. On the outline map of India show the major sites associated with the life Mahavira Swami.
2. On the outline map of India show the significant Buddhist sites.
3. On the outline map of the world mark the areas to which Buddhism spread.

Historical Events:

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

1. C. 500 BCE
2. C. 500-200 BCE
3. C. 500-100 BCE
4. C. 500 BCE-400 CE



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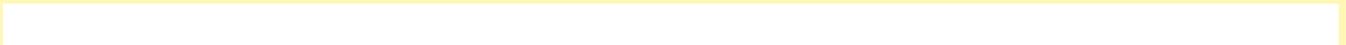
5. C. 200 BCE-200 CE
6. C. 100 CE

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7. C. 200 CE Onwards
8. C. 300 CE
9. C. 300-600 CE
10. C. 400-500 CE
11. 1919-66
12. 1973
13. 1500-1000 BCE
14. C. 1000-500 CE
15. C. sixth century BCE
16. C. third century BCE
17. second century BCE Onwards
18. C. third century CE
19. 1814
20. 1834
21. 1835-1842
22. 1851
23. 1854
24. 1878
25. 1880
26. 1888
27. 1914
28. 1923
29. 1955
30. 1989

NOTE: IN CASE ANY PROBLEM CONTACT ON WHATSAPP





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HOME ASSIGNMENT -1 (2024-25)

CLASS- XII SOCIOLOGY

A. Define the following terms:

Arithmetic Density, Depending Ratio, Maternal Mortality Rate, Age Structure, Endogamy, Family, Dominate Caste, Life-style, Marriage, Role conflict, Monogamy, Social exclusion, Stereotype, Tribe, Untouchable caste,

B. One Word Answer Type Questions-

1. Who was social reformer in the 19th century?
2. The main centre of activities of Arya Samaj was in.....
3. Where did Jyotiba Phule open the first school for women?
4. Ravi Verma from Kerala is famous in history as a/an..... .
5. Who was the constitutional advisor to the Constituent Assembly?

C. Very Short Answer Type Questions-

1. Write the meaning of age-structure in population.
2. What is population density?
3. What is dominant caste?
4. What does the term 'Adivasi' mean?
5. What do you understand by extended family?

D. Short Answer Type Questions-

1. Write a note on purity and pollution.
2. Mention the changes that caste underwent during colonial rule?
3. Briefly explain India's demographic achievements.
4. What are the major issues of concern of adivasis today?
5. What changes in the social structure can lead to change in the family?

E. Long Answer Type Questions-

1. What changes did colonialism bring about in the caste system?
2. 'Tribes are a primitive community who live away from the mainstream society.' Give arguments for and against this statement.
3. Westernization is often considered related to lifestyle and dress. Is it so? Discuss.



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UNIT TEST II- 2024-25

WORKSHEET 1

CLASS: XII

CHEMISTRY

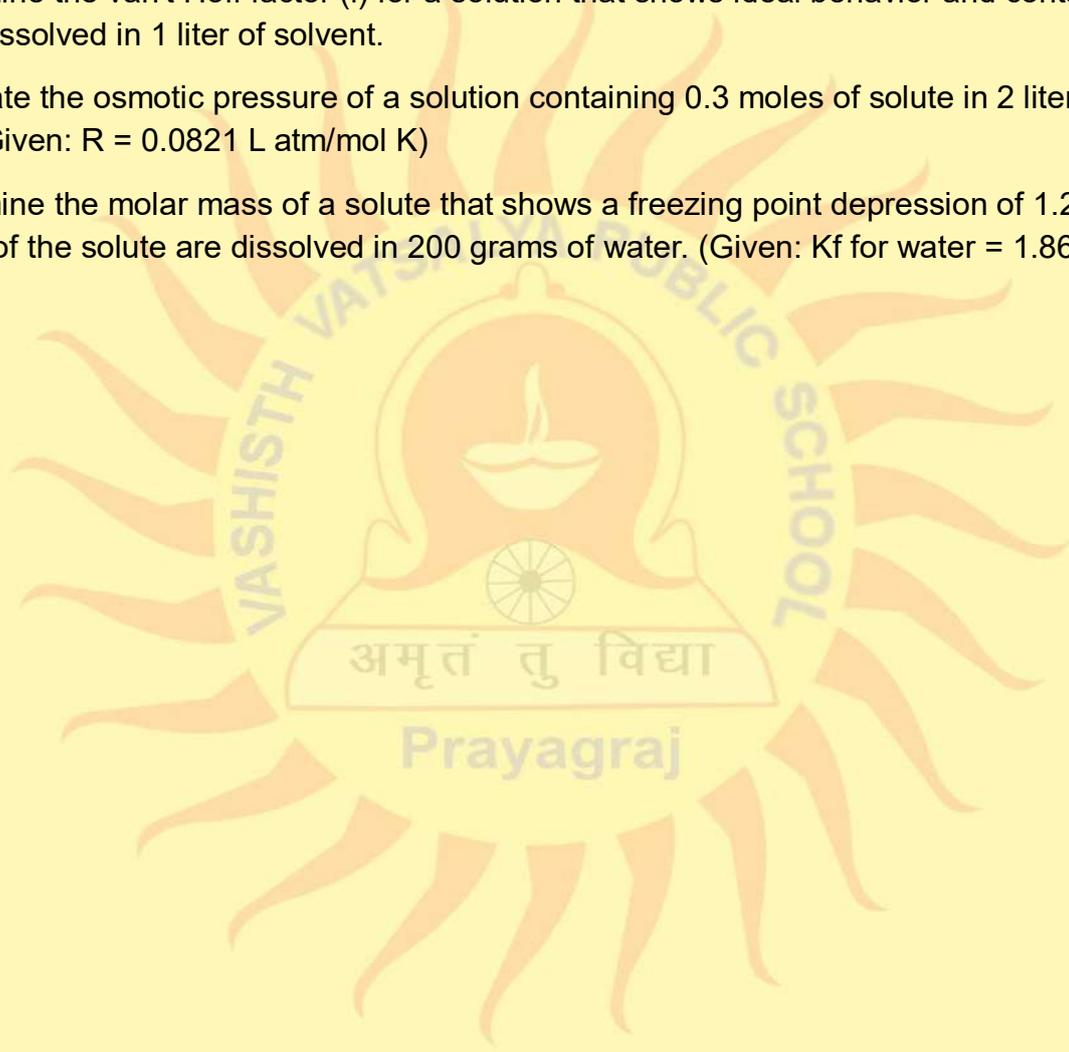
1. Define the term "solution" in chemistry and explain the components of a solution.
2. Discuss the factors affecting solubility and give examples of each.
3. Explain the term "concentration" in the context of solutions. Describe various methods to express concentration.
4. Discuss the concept of colligative properties. How are they related to the number of solute particles in a solution?
5. Define osmosis and osmotic pressure. How does osmosis play a role in biological systems?
6. Differentiate between ideal and non-ideal solutions. Provide examples of each.
7. Describe Henry's law and its significance in the context of gas solubility in liquids.
8. Discuss the Raoult's law and its application in determining the vapor pressure of solutions.
9. Explain the phenomenon of boiling point elevation and freezing point depression. How are these properties used in real-life applications?
10. Describe the concept of molality and explain why it is preferred over molarity in certain situations.
11. Calculate the molarity of a solution containing 0.5 moles of solute dissolved in 250 mL of solvent.
12. Determine the mass percent of a solution if 50 grams of solute are dissolved in 200 grams of solvent.
13. Calculate the molality of a solution containing 80 grams of solute dissolved in 500 grams of solvent.
14. Determine the freezing point depression of a solution containing 0.1 moles of solute in 200 grams of water. (Given: K_f for water = $1.86\text{ }^\circ\text{C/molal}$)
15. Calculate the boiling point elevation of a solution containing 2 moles of solute in 500 grams of solvent. (Given: K_b for the solvent = $0.52\text{ }^\circ\text{C/molal}$)



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16. Determine the osmotic pressure of a solution containing 0.5 moles of solute in 1 liter of solvent at 25°C. (Given: $R = 0.0821 \text{ L atm/mol K}$)
17. Calculate the vapor pressure of a solution at 25°C containing 0.2 moles of non-volatile solute in 500 mL of water. (Given: Vapor pressure of pure water at 25°C = 23.8 torr)
18. Determine the van't Hoff factor (i) for a solution that shows ideal behavior and contains 1 mole of solute dissolved in 1 liter of solvent.
19. Calculate the osmotic pressure of a solution containing 0.3 moles of solute in 2 liters of solvent at 30°C. (Given: $R = 0.0821 \text{ L atm/mol K}$)
20. Determine the molar mass of a solute that shows a freezing point depression of 1.2°C when 0.1 moles of the solute are dissolved in 200 grams of water. (Given: K_f for water = 1.86 °C/molal)





HOME ASSIGNMENT -1 (2024-25)

**CLASS- XII
EDUCATION**

1. Definite answer type questions:

- i. In which year Vasco -de -Gama reached the port of Calicut?**
- ii. What was the title of the report submitted by Kothari commission?**
- iii. Why Pt. Madan Mohan Malviya went to London in the year 1931?**
- iv. What is the other term from which the term motivation is derived?**
- v. What would you call the environment which is against the natural flow of the instincts?**
- vi. Who was the staunch supporter of "Filtration theory"?**
- vii. Who was the chairman of University commission?**
- viii. Whose contribution is there in Banaras Hindu University?**
- ix. What is the term used for motives which result due to learning?**
- x. Name the Instinct, to which the fear of emotion is linked.**

2. Very short answer type questions:

- i. How the parents and teachers may make better use of instinct of combat towards creation?**
- ii. What do you understand by acquired motives?**
- iii. What were the arguments produced by occident lists in favour of Western system of education?**
- iv. Mention the aims of education as laid down by University Education Commission.**
- v. What are the views of Malviyaji as regards discipline?**
- vi. How Instincts are useful in the gaining of higher Education?**
- vii. What is the role of aspiration in gaining education?**

- viii. What must be the medium of instruction in the view of Malviyaji?
- ix. What steps should be taken for the harmonious development of the children as suggested by Acharya Narendra Dev committee?
- x. What was the purpose of Christian missionary coming to India?

3. Short answer type questions:

- i. Explain the types of motivation?
- ii. Explain different ways of Modification of Instincts.
- iii. Explain merits and demerits of suggestions put -forth by Acharya Narendra Dev committee.
- iv. What was Gokhale bill for compulsory primary education? What were the main recommendations of this bill?
- v. What steps were taken by East India Company for the spread of education in India?
- vi. What are the three different aspects of instincts, as suggested by McDougall?
- vii. Briefly discuss the sources of motivation.
- viii. Give a brief life sketch of Malviyaji.
- ix. Briefly mention merits and demerits of secondary Education Commission or Mudaliar Commission.
- x. Write in brief about Sargent plan and its recommendations.

4. Long answer type questions:

- i. Explain the principles on the basis of which he founded Kashi Hindu University?
- ii. What do you understand from basic Instincts? Explain their characteristics.
- iii. What was Hunter Commission or Indian Education Commission? What were the important recommendations suggested by this Commission?
- iv. Discuss main characteristics of educational developments in post independence era.
- v. Discuss main sources of motivation. Evaluate the use of reward and punishment in education.



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UNIT TEST II 2024-25 HOME ASSIGNMENT --1 CLASS 12 CIVICS

Question 1.

Which among the following statements about the Cold War is wrong?

- (a) It was a competition between the US and Soviet Union and their respective allies
- (b) It was an ideological war between the superpowers
- (c) It triggered of an arms race
- (d) The US and U.S.S.R. were engaged in direct wars

Question 2.

Which among the following statements does not reflect the objectives of NAM?

- (a) Enabling newly decolonized countries to pursue independent policies.
- (b) Not to joining any military alliances
- (c) Following a policy of neutrality on global issues
- (d) Focus on elimination of global economic inequalities

Question 3.

Mark correct or wrong against each of the following statements that describe the features of the military alliances formed by the superpowers.

- (a) Member countries of the alliance are to provide bases in their respective lands for the superpowers.
- (b) Member countries to support the superpower both in terms of ideology and military strategy.
- (e) When a nation attacks any member country. it is considered as an attack on all the member countries.
- (d) Superpowers assist all the member countries to develop their own under weapons.

Question 4.

Here is a list of countries. Write against each of these the bloc they belonged to during the Cold War.

- (a) Poland
- (b) France
- (c) Japan
- (d) Nigeria
- (e) North Korea
- (f) Sri Lanka.

Question 5.

Which of the following was not a member of NATO?

- (a) The U.S.A.
- (b) England
- (c) France
- (d) None of these



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Question 6.

Which of the following was not a member of SEATO?

- (a) U.S.S.R.
- (b) New Zealand
- (c) Pakistan
- (d) Australia

Question 7.

Which of the following statements about the NIEQ is false?

- (a) Give the LDCs control over their natural resources
- (b) Obtain access to Western markets
- (c) Reduce the cost of technology from the Western countries
- (d) Provide the developed countries with a greater role in international economic institutions

Question 8.

In 1945 the allied forces included the U.S. _____ U.S.S.R and _____

Question 9.

Write the main countries of Axis Powers _____.

Question 10.

Write the main countries of Allied Forces during Second World War. _____.

Question 11.

Name any four countries that joined the Soviet Bloc.

Question 12.

Cuban Missile Crisis occurred in _____>

Question 13.

Who called Cold War a 'long twilight struggle'?

Question 14.

In which year South East Asia Treaty Organization was established?

Question 15.

In which year Central Treaty Organization (CENTO) was established? _____.

Question 16.

Mention five countries of the 'Western Alliance'. _____

Question 17.

In which year U.S.S.R, intervened in Hungary?

Question 18.

In which year U.S.A. dropped two atomic bombs on the Japanese cities of Hiroshima and Nagasaki?



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Question 19. The person who opposed Neo-colonialism was

- (a) Churchill
- (b) Brezhnev
- (c) Khrushchev
- (d) Kwame Nkrumah

Question 20. What is the full form of 'CENTO'?

- (a) The Central Task Organization
- (b) The Central Treaty Organization
- (c) The Central Tally Organization
- (d) The Central Team Organization

Question 21.

Which among the following statements that describe the nature of the Soviet economy is wrong?

- (a) Socialism was the dominant ideology
- (b) State ownership/control existed over the factors of production
- (c) People enjoyed economic freedom
- (d) Every aspect of the economy was planned and controlled by the State

Question 22.

Arrange the following in chronological order:

- (a) Soviet invasion of Afghanistan
- (b) Fall of the Berlin Wall
- (c) Disintegration of the Soviet Union
- (d) Russian Revolution.

Question 23.

Which among the following Is NOT an Outcome of the disintegration of the U.S.S.R?

- (a) End of the ideological war between the U.S and U.S.S.R
- (b) Birth of CTS
- (c) Change in the balance of power in the world order
- (d) Crises in the Middle East.



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24.

Match the following:

(i) Mikhail Gorbachev	(a) Successor of U.S.S.R.
(ii) Shock Therapy	(b) Military pact
(iii) Russia	(c) Introduced reforms
(iv) Boris Yeltsin	(d) Economic model
(v) Warsaw	(e) President of Russia

Question 25.

In which year Gorbachev became General Secretary of the Communist Party of U.S.S.R.?

- (a) 1989
- (b) 1990
- (c) 1987
- (d) 1985

Question 26.

Russia took over the U.S.S.R. seat in the U.N. in:

- (a) December 1991
- (b) November 1989
- (c) December 1990
- (d) October 1992.



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Question 27.

Which one of the following was NOT given primacy by the makers of the Soviet System?

- (a) Abolition of private property
- (b) Society based on the principle of equality
- (c) No opposition party to be allowed
- (d) No state control over the economy

Question 28.

The Soviet political system was based on _____ ideology.

Question 29.

_____ was the military alliance started by the U.S.S.R.

Question 30.

_____ party dominated the Soviet Union's political system.

Question 31.

_____ initiated the reforms in the USSR in 1985.

Question 32.

The fall of the _____ symbolizes the end of the Cold War.

Question 33.

In which year Socialist Revolution took place in Russia?

Question 34.

In which year disintegration of the Soviet Union took place?

Question 35.

The collapse of which country is known as the collapse of 'Second World'.

Question 36.

In which year Warsaw Pact was disbanded?

Question 37.

With the collapse of which country did the Cold War come to an end?

Question 38.

When the U.S.S.R. came into being?



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Question 39.

How many Union Republics were there in U.S.S.R.?

Question 40.

Which leader of the U.S.S.R. started political and economic reforms in U.S.S.R.?

Question 41.

Operation Iraqi Freedom was launched on:

- (a) 21 April 2003
- (b) 19 March 2004
- (c) 23 March 2003
- (d) 19 March 2003

Question 42.

Which one of the following statements related to the Iraq invasion by the US is incorrect?

- (a) More than forty other countries were involved in this invasion
- (b) The UN had given consent to invade Iraq
- (c) The invasion was to prevent Iraq from developing weapons of mass destruction
- (d) The US lost over 3000 military personnel in this war

Question 43

Which one of the following was a part of its global war on terrorism by the US.?

- (a) 'Operation desert storm'
- (b) Computer war
- (c) 'Operation enduring freedom'
- (d) Videogame war

Question 44.

Which among the following statements about hegemony is incorrect?

- (a) The word implies the leadership or predominance of one state.
- (b) It was used to denote the predominance of Athena in ancient Greece.
- (c) The country has a hegemonic position will possess unchallenged military power.
- (d) Hegemonic position is fixed. Once a hegemon, always a hegemon.

Question 45.

Which among the following statements is wrong about the Contemporary World Order?

Or

Which of the following statements are incorrect about the contemporary world order?

- (a) There is an absence of a world government, which could regulate the state's behaviour.
- (b) The U.S. is the predominant player in world affairs.
- (c) States are using force against one another.
- (d) States which violate international law, are severely punished by the U.N.



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Question 46.

Which among the following statements is wrong with regard to Operation Iraqi Freedom’?

- (a) More than forty countries joined in the U.S.-led coalition of the willing to invade Iraq.
- (b) The reason given for invading Iraq was to prevent it from developing weapons of mass destruction.
- (c) The action was taken within the prior approval of the U.N.
- (d) The US-led coalition did not face major resistance from Iraqi forces.

Question 47.

The strategy of staying as far removed from the dominant power as possible is also known as _____

Question 48.

Match the following:

1. Operation Infinite Reach	(a) War against Al-Qaeda and Taliban
2. Operation Enduring Freedom	(b) Coalition of the willing
3. Operation Desert Storm	(c) Missile attack in Sudan
4. Operation Iraqi Freedom	(d) First Gulf War

Question 49.

Who won the U.S. presidential election in 1992 and in 1996?

Question 50.

What do you understand by ‘Operation Iraqi Freedom’?

Question 51.

Write one constraint on American Power.



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Question 52.

In which year Iraq invaded Kuwait?

Question 53.

Which American President ordered 'Operation Infinite Reach'?

Question 54.

Which American President launched 'Operation Enduring Freedom'?

Question 55.

Who was the President of the U.S.A. during 'First Gulf War'?

Question 56.

In which year U.S. Military research project began?

Question 57

The headquarters of the defense department is at?

Question 58.

US embassies were bombed by Al-Qaeda in which year?

Question 59

The root of the word hegemony lies in the

- (a) Latin
- (b) Classical Greeks
- (c) French
- (d) Spanish

Question 60.

The United Nations Conference on Trade and Development (UNCTAD) brought out a report in 1972 entitled Towards a New Trade Policy for Development. The report proposed a reform of the global trading system so as to:

- 1. give the LDCs control over their natural resources exploited by the developed Western countries**
- 2. Obtain access to Western markets so that the LDCs could sell their products and, therefore, make trade more beneficial for the poorer countries,**
- 3. reduce the cost of technology from the Western countries, and**
- 4. provide the LDCs with a greater role in international economic institutions.**

Code:

- a) 1, 2 and 3 only**
- b) 3 and 4 only**
- c) 2 and 3 only**
- d) All of the above**



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Very short answer questions

Question 1. Why was ASEAN established?

Question 2.

What does the logo on the ASEAN flag symbolize?

Question 3.

Under which plan did the USA extend financial support for reviving Europe's economy after the Second World War?

Question 4.

Name any two members of the EU, who are permanent members of the UN Security Council.

Question 5.

Trace the evolution process of the European Union,

Question 6.

What was the objective of founding the European Union?.

Question 7. What is meant by ASEAN way?

Question 8.

What is meant by the 'Maastricht Treaty'?

Question 9.

In 1992 which regional organization was formed?

Question 10.

What do ASEAN and FTA stand for?

Short answer questions

Question 1.

State any two features of the European Union that make it an influential organization.

Question 2.

When was the ASEAN regional forum established? What were its main objectives?

Question 3.

In the European Union Flag, what does the symbol of 'twelve gold stars in a circle' signify?

Question 4.

Explain India's improving relationship with China.

Question 5.

What is the meaning of Panchsheel?

Question 6.

Mention any two steps taken by China to improve its economy.

Question 7.

What led to the formation of the European Union?

Question 8.

What was the Marshall Plan? How did it pave the way for the formation of OEEC (Organization of European Economic Cooperation)?



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Question 9.

When was the European Union established? Mention any two kinds of influence that were exercised by the European Union.

Long answer questions

Question 1.

Describe India-China relations from 1947 to 1962.

Question 2.

What were the two major policy decisions taken by the Chinese leadership in the 1970s?

Question 3.

In which four ways did the new economic policy of China benefit its economy?

Question 4.

Mention any four significant changes in Indo-China relations that have taken place after the Cold War.

Question 5.

In spite of the improvement in the Chinese economy, there have been negative consequences affecting the people of China. Mention any four such consequences.

Question 6.

Assess the role of ASEAN as an economic association.

OR

Why does ASEAN still remain principally an economic community?

Question 7.

How has the European Union evolved over time from an economic union to an increasingly political one?

Question 8. Explain the economic and military influence of the European Union.

Question 9. What is meant by the ASEAN way? What were the objectives behind the formation of the ASEAN in 1967?

Question 10. Explain the role of emerging alternative centres of power in transforming the different countries into prosperous economies.

Question 11. Why did India and China both, view themselves as rising powers in global politics in spite of the tension between them? Substantiate your answer by giving any four events that have brought cordiality in their relationship.

Question 12. How did the European Union exercise its political and diplomatic influence?

Question 13. Describe any two aspects each of cordiality and tension in the relationship between India and China.

Question 14. Describe any two similarities and two differences between the USA and the EU.



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Miscellaneous

Question 1. Evaluate any three major factors responsible for making the European Union a political force from economic forces.

Question 2. Explain the factors responsible for the rise of the Chinese economy.

Question 3. Explain the vision of the ASEAN for 2020.

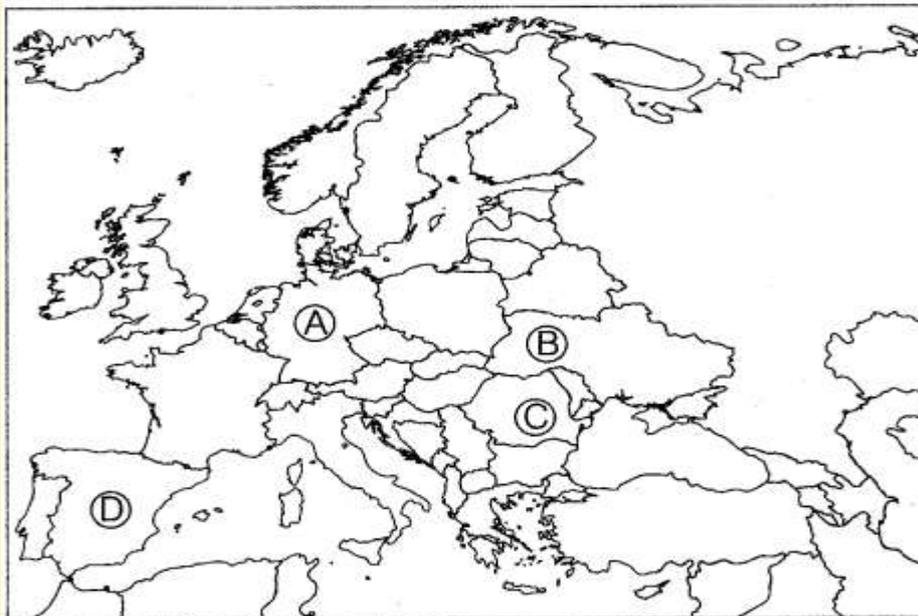
Question 4. Examine the changing Indo-China relations.

Question 5. Analyze the basis of the projection of China to overtake the US as the world's largest economy by 2040.

Map-Based Questions

Question 1.

In the given political outline map of Europe, four member countries of the European Union have been marked A, B, C and D. Identify them with the help of information given below and write their correct names in your answer-book along with their respective serial number and the alphabet concerned.

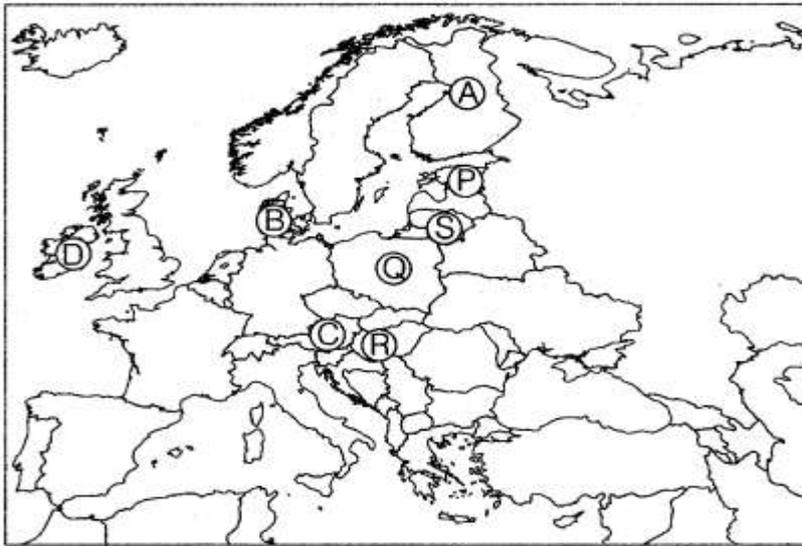


- (i) An older member of the European Union located between Portugal and France.
- (ii) An older member of the European Union located near Belgium and the Netherlands.
- (iii) Two new members of the European Union.

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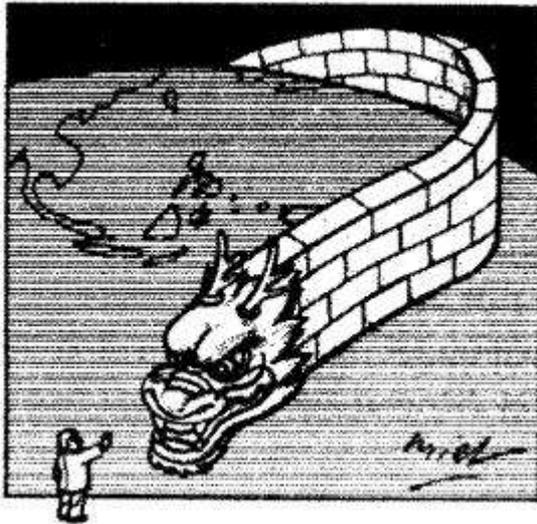
Question 2. In the given political outline map of the European Union, identify and write the names of four old members marked as A, B, C and D and four new members marked as P, Q, R and S in your answer-book.



Picture Based Questions

Question 1.

Study the cartoon given below and answer the following questions



- Which country does the given cartoon refer to?
- Identify the two symbols in this cartoon which have given you the clue about the related country.
- Where does the cartoon place the related country in international power politics?



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HOME ASSIGNMENT 2024-25

CLASS-XII

SUBJECT- ECONOMICS

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

1. State law of demand. Explain with a schedule and diagram.
2. Consider two commodities Tea and Coffee. What could be the effect on demand for Tea if price of coffee falls. Explain with reason and suitable diagram.
3. Distinguish between normal good and inferior good. Use examples.
4. Distinguish between complementary good and substitute good with examples.
5. Law of demand to holds good only under certain conditions. What are these?
6. What does change in demand mean? Explain using diagram.
7. What does change in quantity demanded mean? Explain using diagram.
8. Define market demand curve. Explain with the help of a diagram.
9. Why does demand curve slope down ward? Explain the reasons behind this.
10. Define price elasticity of demand. State the meaning of five cases of price elasticity of demand with suitable diagram.
11. What are the important factors that influence price elasticity of demand for a good? Explain each.
12. Explain the impact of demand for a good when:
 - i. Income of the consumer changes
 - ii. Price of related good changes
 - iii. Taste and preference of the consumer changes
13. Explain the method of calculating elasticity of demand by total expenditure method.
14. Explain the method of calculating elasticity of demand by Point method.





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UNIT TEST II 2024

HOME ASSIGNMENT I

CLASS XII

PHYSICS

Very short answer-

- Q1 Define electric dipole moment. Is it a scalar or a vector?
- Q2. Derive an expression for the torque experienced by an electric dipole kept in a uniform electric field. When is this torque maximum.
- Q3. Define dielectric constant of a medium in terms of force between electric charges.
- Q4. An infinite line charge produces a field of 9×10^4 N/C at a distance of 4cm. Calculate the linear charge density.
- Q5. An electric dipole is held in a uniform electric field E. Show that the net force acting on it is zero.
- Q6. Define Dielectric constant.
- Q7. Express series combination of Capacitors.
- Q8. Express parallel combination of capacitors.
- Q9. State energy stored in capacitors.
- Q10. Write the formula of energy stored in per unit volume in capacitor.

Short answer Questions-

1. Define electric potential difference at a point . Do we always require a reference point where potential is assumed to be zero to define the potential at a point. Is the potential a vector or scalar quantity?
2. Show the variation of electric potential with distance r from point charge. Compare this variation graphically with the variation of electric field at the same point due to same charge.
3. Define the term potential gradient. Is it a vector or scalar quantity? Obtain a relation between electric field and potential gradient.
4. Explain why electric field inside the charged solid conductor is zero and it is normal to the surface outside the conductor.
5. Define equipotential surfaces. State four important properties of equipotential surfaces.
6. State the position of three possible points where electric potential is zero on the line and outside the line joining two charges system +Q and -4Q placed at a distance 2a apart.



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7. Four point charges $+2Q$, $-Q$, $-2Q$ and $+3Q$ are placed at the four corners of a square of side a . Calculate net electric potential at the center of this square.
8. Obtain an expression for electrostatic potential energy of a system of two like point charges Q_1 and Q_2 in a region of external uniform electric field.
9. Can a single conductor be a capacitor, what do you mean by its capacitance.
10. Calculate the ratio of potential difference that must be applied across series and parallel combination of two identical capacitors so that total energy stored by two combinations is same.

Long Answer type question-

1. Two plates of a parallel plate capacitor are at distance 4mm apart. A dielectric slab of thickness 3mm and dielectric constant 4 is placed between the plates, then distance between the plates is so adjusted that new capacitance is increased to $\frac{2}{3}$ times of original capacitance, find the new distance between the plates.
2. A capacitor of capacitance $2\mu\text{f}$ is connected across a battery of E.M.F 15 volt .It is now disconnected from the battery and connected across an uncharged capacitor of capacitance $3\mu\text{f}$. Find the common potential, new charge on each and energy loss in this process.
3. A capacitor of capacitance C connected across a supply of V volt. It is now disconnected from the battery and distance between the plates is doubled. Discuss the effect on charge stored, voltage, electric field between the plates and energy stored by the capacitor. What are the effects on the same physical quantities if given changes are made keeping the battery connected?
4. Two plates of a parallel plate capacitor are at distance 4mm apart. A dielectric slab of thickness 3mm and dielectric constant 4 is placed between the plates, then distance between the plates is so adjusted that new capacitance is increased to $\frac{2}{3}$ times of original capacitance, find the new distance between the plates.
5. Show that only 50% of total energy supplied by the battery to a capacitor is stored in the capacitor and justify where the remaining part of this energy is used. Show that total energy remains conserved in both series and parallel combination of capacitors.



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HOME ASSIGNMENT 2024-25

CLASS-XII

BUSINESS STUDIES

1. What is Business Environment?
2. Why is it said that business environment is uncertain?
3. What is included in 'Political Environment' of business?
4. Why is business environment called dynamic? State.
5. What is included in the 'Technological Environment' of business?
6. Why is the understanding of business environment important for?
Explain with the help of any four points.
7. Explain any four characteristics of business environment.
8. What do you mean by Globalization?
9. What do you mean by Innovations?
10. Business environment or Environmental Scanning helps in the identification of threats and early warning signals." Explain?
11. Enumerate the benefits of understanding the business environment.
12. Social environment of business is important for a business enterprise".
Explain ?
13. Enumerate any five Positive impacts of liberalization .
14. Explain any five negative impacts of liberalization.
15. Explain any five ways in which managers have responded to changes in business environment.
16. Briefly discuss the impact of government policy changes on the business and industry.
17. Explain the dimensions of Business Environment.
18. Briefly discuss the impact of government policy changes on the business and industry.
19. State the impact of demonetization on interest rates, private wealth and real estate.
20. How would you argue that success of a business is significantly influenced by its environment?



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WORKSHEET-1
HOME ASSIGNMENT 2024
CLASS- XII
SUBJECT- Psychology

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

1- Define the term:

Linguistic, Spatial, Interpersonal, Intrapersonal, Naturalistic

2- Very short answer type questions:

- i. What do you understand by individual differences?**
- ii. Define the term situationalism.**
- iii. What is psychological assessment ?**
- iv. What is observation?**
- v. Define intelligence.**

3- Short answer type questions:

- i. What is case study to explain the hierarchical model of Intelligence.**
- ii. Briefly describe about two factor theory.**
- iii. Differentiate between individual and group test.**
- iv. How is creativity related to intelligence?**

4- Long answer type questions:

- i. Briefly elaborate theories related to the approach of Intelligence.**
- ii. Briefly explain the intelligence in Indian tradition?**
- iii. Explain the competencies of Indian notion of Intelligence.**



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UNIT TEST II 2024 HOME ASSIGNMENT-I CLASS: XII MATHEMATICS

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

Q1. Determine the value of the constant 'k' so that the function

$$f(x) = \begin{cases} \frac{kx}{|x|}, & \text{if } x < 0 \\ 3, & \text{if } x \geq 0 \end{cases}$$

is continuous at $x = 0$.

Q2. Find the values of p and q for which

$$f(x) = \begin{cases} \frac{1 - \sin^3 x}{3 \cos^2 x}, & \text{if } x < \frac{\pi}{2} \\ p, & \text{if } x = \frac{\pi}{2} \\ \frac{q(1 - \sin x)}{(\pi - 2x)^2}, & \text{if } x > \frac{\pi}{2} \end{cases}$$

is continuous at $x = \pi/2$.

Q3. Find dy/dx at $x = 1$, $y = \pi/4$ if $\sin^2 y + \cos xy = K$.

Q4. Differentiate $y = ((\tan x)^{\tan x})^{\tan x}$.

Q5. Show that the determinant

$$\begin{vmatrix} (y+z)^2 & xy & zx \\ xy & (x+z)^2 & yz \\ xz & yz & (x+y)^2 \end{vmatrix} = 2xyz(x+y+z)^2$$

Q6. Prove that: $\begin{vmatrix} 1 & x & y+z \\ 1 & y & z+x \\ 1 & z & x+y \end{vmatrix} = 0$

Q7. Prove that: $\begin{vmatrix} x+a & b & c \\ a & x+b & c \\ a & b & x+c \end{vmatrix} = x^2(x+a+b+c)$



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Q8. Prove that: $\begin{vmatrix} 13 & 16 & 19 \\ 14 & 17 & 20 \\ 15 & 18 & 21 \end{vmatrix} = 0$

Q9. Prove that: $\begin{bmatrix} a & c & a+c \\ a+b & b & a \\ b & b+c & c \end{bmatrix} = abc$.

Q10. If $\begin{vmatrix} x+1 & x+2 & x+a \\ x+2 & x+3 & x+b \\ x+3 & x+4 & x+c \end{vmatrix} = 0$ then show that a,b,c are in A.P.

Q11. Solve the differential equation $\frac{dy}{dx} = \frac{1}{y+\sin y}$.

Q12. If $y = x^{x \cos x}$, then find $\frac{dy}{dx}$.

Q13. Prove that $\begin{vmatrix} y+z & x & y \\ z+x & z & x \\ z+y & y & z \end{vmatrix} = (x+y+z)(x-z)^2$.

Q14. If $x\sqrt{1+y} + y\sqrt{1+x} = 0$ for $-1 < x < 1$, then prove that $\frac{dy}{dx} = \frac{1}{(1+x)^2}$.

Q15. Can Rolle's theorem be applied to: $f(x) = \tan x$ in $[0, \pi]$.



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HOME ASSIGNMENT 2024-25

CLASS-XII

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. State any two limitations of financial statement analysis.
2. What is meant by analysis of financial statements?
3. State any two objectives of financial statement analysis.
4. Explain how financial statement analysis ignores qualitative elements?
5. State any two advantage of financial statement analysis.
6. State the significance of analysis of financial statements to 'top management'.
7. How is the financial statement analysis useful to finance manager?
8. State the interest of investors in the analysis of financial statements.
9. How is 'window dressing a limitation of financial statement analysis?
10. State the interest of tax authorities in the analysis of financial statements.
11. Differentiate between Vertical and Horizontal Analysis.
12. Explain briefly any four objectives of 'Analysis of financial statements'.
13. Which item is assumed to be 100 while preparing common size statement of profit and loss?
14. Name any five tools of analysis of financial statements.
15. What is meant by a common size statements?
16. What is meant by a comparative statements?



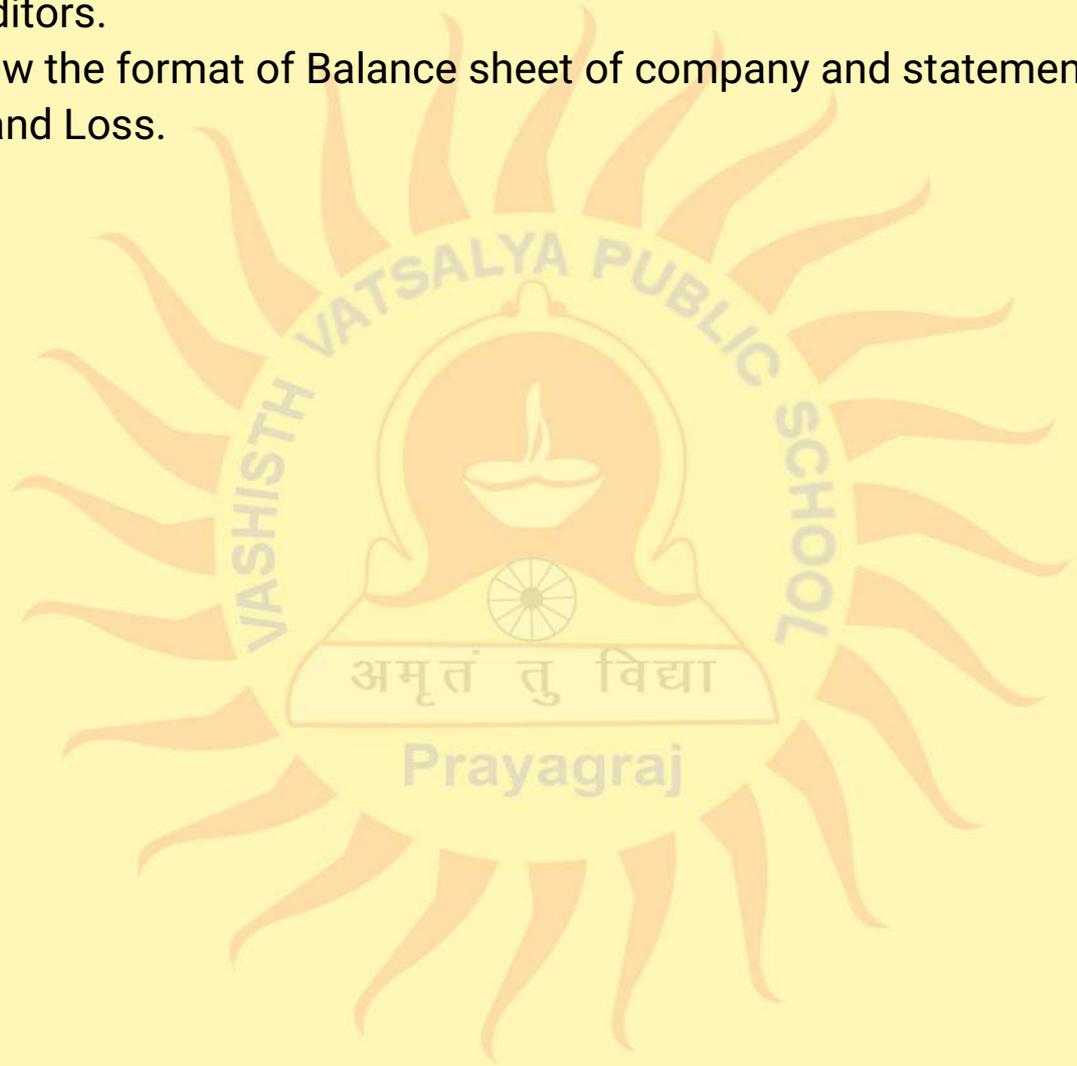


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17. What do you mean by external and internal analysis?
18. Differentiate between Inter firm and Intra firm Analysis.
19. Explain the importance of financial analysis of
 - (i) labour unions and
 - (ii) creditors.
20. Draw the format of Balance sheet of company and statement of Profit and Loss.





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WORKSHEET-1 CLASS- 12 SUBJECT-BIOLOGY

Question-1 Very Short Answer-

- Give any two reasons for the selection of pea plants by Mendel for his experiments.
- Name any one plant that shows the phenomenon of incomplete dominance during the inheritance of its flower colour.
- Name the base change and the amino acid change, responsible for sickle cell anaemia.
- Name the disorder with the following chromosome complement.
 - 22 pairs of autosomes + X X Y
 - 22 pairs of autosomes + 21st chromosome + XY.
- A haemophilic man marries a normal homozygous woman. What is the probability that their daughter will be haemophilic?
- A test is performed to know whether the given plant is homozygous dominant or heterozygous. Name the test and phenotypic ratio of this test for a monohybrid cross.
- Name one trait each in humans & in drosophila whose genes are located on the sex chromosome.
- Which one change is the cause of sickle-cell anaemia?
- Identify the sex of the organism as male or female in which the sex chromosome is found as
 - ZW in birds
 - XY in Drosophila
 - ZZ in birds
 - XO in grasshoppers
- Give the initiation codon for protein synthesis. Name the amino acid it codes for?
- In which direction, the new strand of DNA synthesized during DNA replication.
- In which direction, the new strand of DNA synthesized during DNA replication.
- Who experimentally proved that DNA replication is semi-conservative.
- Name the three nonsense codons?
- Mention the dual functions of AUG?
- Complete the blanks a, b, c and d on the basis of the Frederick Griffith Experiment.
S Strain → inject into mice → (a) R Strain → inject → (b) S strain (heat-killed) → inject into mice → (c) S strain (heat-killed) + R strain (live) → inject into mice → (d)

Question-2 Short Answer Questions-

- Mention two differences between Turner's syndrome and Klinefelter's syndrome
- The human male never passes on the gene for haemophilia to his son. Why is it so?
- Mention four reasons why Drosophila was chosen by Morgan for his experiments in genetics.
- Give any two similarities between the behaviour of genes (Mendel's factor) during inheritance and chromosomes during cell division.
- Which law of Mendel is universally accepted? State the law?
- How will you find out whether a given plant is homozygous or heterozygous?
- Why do sons of a haemophilic father never suffer from this trait?



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- h. How is the child affected if it has grown from the zygote formed by an XX-egg fertilized by Y-carrying sperm? What do you call this abnormality?
- i. The map distance between a certain organisms genes A and B is 4 units, between B and C is 5 units and between C and D is 8 units. Which one of the gene pairs will show more recombination frequency? Give reason.
- j. What is pedigree analysis? How is it useful?
- k. A woman with an O blood group marries a man with an AB blood group (i) Work out all the possible phenotypes and genotypes of the progeny. (ii) Discuss the kind of dominance in the parents and the progeny in this case.
- l. In Mendel's breeding experiment on garden peas, the offspring of the F₂ generation are obtained in the ratio of 25 % pure yellow pod, 50 % hybrid green pods and 25 % green pods. State
- which pod colour is dominant
 - The Phenotypes of the individuals of the F₁ generation.
 - Workout the cross.
- m. In *Antirrhinum majus* a plant with red flowers was crossed with a plant with white flowers. Work out all the possible genotypes and phenotypes of F₁ and F₂ generations, comment on the pattern of inheritance in this case?
- n. A red-eyed male fruit fly is crossed with a white-eyed female fruit fly. Work out the possible genotype and phenotype of F₁ and F₂ generation. Comment on the pattern of inheritance in this cross?
- o. A man with AB blood group marries a woman with O group blood.
- Work out all the possible phenotypes and genotypes of the progeny.
 - Discuss the kind of domination in parents and progeny in this case?
- p. In a cross made between a hybrid tall and red plant (TtRr) with dwarf & white flower (ttrr). What will be the genotype of plants in the F₁ generation?
- q. A smooth seeded and red-flowered pea plant (SsRr) is crossed with a smooth seeded and white-flowered pea plant (Ssrr). Determine the phenotypic and genotypic ratio in F₁ progeny?
- r. Give two reasons why both the strands of DNA are not copied during DNA transcription?
- s. Explain what happens in frameshift mutation? Name one disease caused by the disorder?

Question-3 Long Answer Questions-

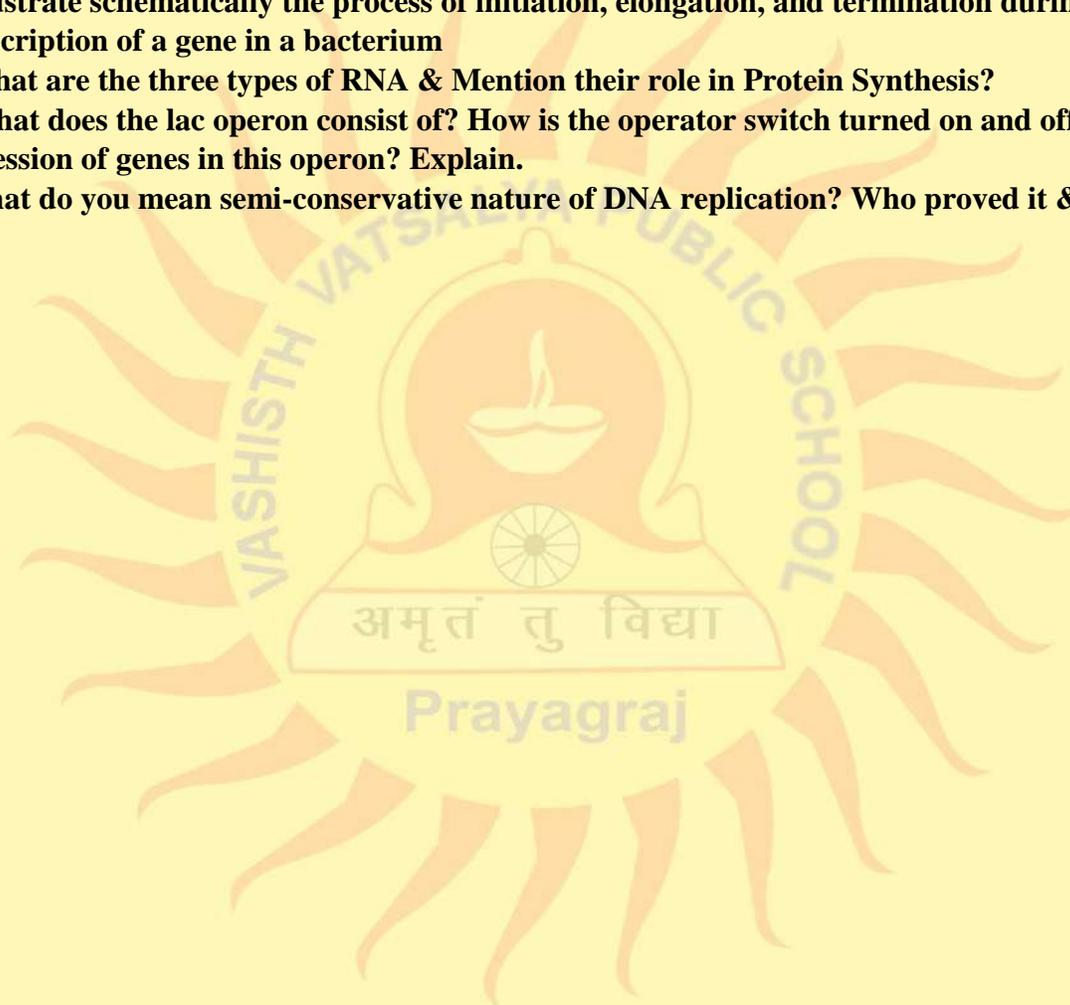
- a. A dihybrid heterozygous round, yellow seeded garden pea (*Pisum sativum*) was crossed with a double recessive plant.
- What type of cross is this?
 - Work out the genotype and phenotype of the progeny.
 - What principle of Mendel is illustrated through the result of this cross?
- b. Explain and Differentiate between dominance, codominance and incomplete dominance with one example each.



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- c. A dihybrid heterozygous tall and yellow pea plant was crossed with the double recessive plant.
- (i) What type of cross is this?
- (ii) Work out the genotype & phenotype of progeny
- (iii) What principle of Mendel is illustrated through the result of this cross?
- d. What do you mean by “Central Dogma of Molecular genetics?”
- e. Why is the human Genome project considered megaproject?
- f. Illustrate schematically the process of initiation, elongation, and termination during transcription of a gene in a bacterium
- g. What are the three types of RNA & Mention their role in Protein Synthesis?
- h. What does the lac operon consist of? How is the operator switch turned on and off in the expression of genes in this operon? Explain.
- i. What do you mean semi-conservative nature of DNA replication? Who proved it & how?





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UNIT TEST II 2024-25

HOME ASSIGNMENT-1

CLASS 12TH

ENGLISH

ENGLISH LITERATURE

(FLAMINGO--- PROSE AND POETRY)

SHORT ANSWER QUESTIONS

1. What could be some of the reasons for the migration of people from villages to cities?
2. What forces conspires to keep the workers in the bangle industry of Firozabad in poverty?
3. Why child labour should be eliminated and how?
4. Mention the hazards of working in a bangle industry?
5. What had been put up on the bulletin board?
6. What was Franz's reaction when he learnt that he was attending his French lesson for the last time?
7. What was Hamel's reaction when Franz could not answer his question in class, correctly?
8. Who did Hamel blame for not knowing French?
9. How had the teacher dressed on the day of the last lesson?
10. Why was Franz afraid of being scolded?
11. What did Franz find much more tempting than the rule of participles? What did Franz do?
12. What was the usual scene when Franz's school began in the morning?
13. What did Wachter tell Franz? What was the latter's response?
14. What did M. Hamel tell the class about French language?
15. How was M. Hamel behaviour contrary to how he would usually behave?

ANSWER THE FOLLOWING QUESTIONS

1. What is the kind of pain and ache that the poet feels?
2. Why has the mother been compared to the 'late winter moon'?
3. What do the parting words of the poet and her smile signify?
4. Why the young trees described as 'sprinting'?

ENGLISH LITERATURE (VISTAS-----SUPPLEMENTARY READER)

ANSWER THE FOLLOWING QUESTIONS

1. Do you think that the third level was a medium of escape for Charley? Why?
2. What do you infer from Sam's letter to Charley?
3. 'The modern world is full of insecurity, Fear, War, Worry and Stress', what are the ways in which we attempt to overcome them?
4. The story 'The Tiger King' is a satire on the conceit of those in power. How does the author employ the literary device of dramatic irony in the story?



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ENGLISH LANGUAGE

A. Change the following statements from direct to indirect

- a) I said to him, "Where are you going?"
- b) He said to me, "Will you go there?"
- c) My friend said to Deepak, "Have you ever been to Agra?"
- d) I said to him, "Did you enjoy the movie?"
- e) I said to her, "Do you know him?"
- f) He said to me, "Will you listen to me?"
- g) I said to him, "When will you go there?"
- h) He said to me, "How is your father?"
- i) I said to him, "Are you happy?"
- j) She said to me, "Open the window."

B. Change the following sentences from Active to Passive

1. Please complete the work today.
2. I received a summon, yesterday.
3. They will laugh at you.
4. Ram is to help his brother.
5. They are searching for the lost book.
6. He bought me a bike.
7. Are you reading the book?
8. Our task had been completed before sunset
9. Has anybody answered your question?
10. Gandhiji started the Quit movement in 1942.

3. Define all the 'Figures of Speech' and give two examples for each.

4. India is a tourist's dream destination. Give your views on the tourism potential of India in an article, in 150 words. You are Navtej/Navita.

places of worship – religious tourism – foreigners – places of historical interest- the rich hill stations during summers – the sun-kissed beaches in winters – leisure tourism – medical tourism – world class hospitals.

5. Write an article, in 150 words, on how we can make India a carefree and enjoyable place for women when they can go wherever they like to without any fear of being stared at, molested or discriminated against. You are Navtej/Navita.



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