

St. Pushpa Senior Secondary School

Summer Assignment, Session 2024-25

Class: XI

English Language

Conducting ASL

*Prepare a short video on any topic as you like.

English Literature

□ Instructions

- Candidates will be required to undertake one written assignment of 1000-1500 words.
- The written assignment must follow the structure given below:
 - Introduction: - Explanation of the question that has been framed - Reason for choosing the text - Brief explanation of how the candidate intends to interpret the chosen text and literary materials used in the process
 - Body – organised and well-structured treatment of the question using appropriate sub-headings.
 - Conclusion – a comprehensive summary of the points made in the main body.

□ Topics

ROLL NUMBER: 1 – 15

Analyse the role of the three witches in Act 1, Scene 1, focusing on how they set the tone for the rest of the play. Explore their prophecies and the effect they have on Macbeth's ambition and actions.

ROLL NUMBER: 16 – 31

How does the poem Abhisara – the Tryst depicts the contrast between spiritualism and Materialism?

ROLL NUMBER: 31 – 46

Do you think that the title A Living God is appropriate for the story?
Give reasons to justify your answer.

ROLL NUMBER: 47 – 61

Discuss Macbeth's reaction to the witches' prophecies in Act 1, Scene 3. Analyse how their predictions affect Macbeth's thoughts and actions, and explore the theme of fate versus free will in the play.

ROLL NUMBER: 62 – 74

Discuss the poem Abhisara – the Tryst as a triumph of the spiritual over the temporal.

Hindi

1. पुत्र प्रेम कहानी का विश्लेषण करते हुए लेखक के कहानी कला पर प्रकाश डालिए
2. कबीर के सखियों के आधार पर बताइए कि कबीर एक समाज सुधारक कवि थे।
3. सूरदास के पदों की समीक्षा करते हुए उनके भाव पक्ष एवं कला पक्ष का विस्तृत वर्णन कीजिए।
4. आषाढ़ का एक दिन की प्रथम अंक में आए प्रमुख पात्रों का परिचय दीजिए तथा बताइए की नाटक कला की दृष्टि से प्रस्तुत नाटक किस प्रकार का नाटक है।

Mathematics

Discuss the following :

1. Orderd and Unordered pairs
2. What is Cartesian Product of set explain with examples
3. Explain Relation with suitable examples and also discuss domain, range and codomain of relation
4. Write in details about function and discuss their different types with their graphs
5. Solve some problems related to domins and range from your text book.

Assignment 2:

1. Define Sets and their representations with examples
2. Types of Sets with some examples
3. Explain Venn Diagram and Cardinal number with examples related to daily life practical problems
4. Algebra of Sets
5. Problem related to all above topics

Chemistry

1. Write different laws of chemical combinations, their definitions, explanation in brief with at least two examples of each types.
2. Write about quantum numbers and all its types, with at least three examples(In sense of shape ,size and energy of a particular orbit /sub -shell)
3. Explain VSEPR theory. On the basis of this theory, explain the geometry of the following molecules:
 1. Ammonia
 2. Water molecules in details.
4. Account for the calculation of oxidation numbers of various compounds with 10 suitable examples (exceptional and unexceptional)
5. Write different types of redox reactions, definitions with at least three examples of each types with suitable examples in details.

Computer Science

- Define All Logic gates with the help of diagram and truth table.
- Draw NAND to NAND Gate Diagram for the following expression $(A+B).(B+C).(C+A)$
- Differentiate between Half Adder and Full Adder with the help of diagram
- Simplify
$$C.D' + A + A + C'.D' + A.B$$

Physics

All the questions are compulsory and must be answered in detail along with proper diagrams and graphs wherever required. Each one of them is containing 5 marks.

Q1. Explain the mathematical operations differentiation and integration in detail along with the formulae.

State the importance of these operations by giving example of suitable physical phenomenon.

Q2. What do you understand by fundamental physical quantities? Write their SI units and dimensional symbols. Also discuss the following units :
1 amu, 1 AU, 1 light year, 1 parsec

Q3. What do you understand by dimensions of a physical quantities ? What are the uses and limitations of dimensional analysis?

Q4. Explain the necessity of reference frames. Also explain various graphs related to one dimensional motion. Derive the equations of motion by graphical method as well as calculus method.

Biology

1. What is tissue system in reference of plants? Explain about epidermal, fundamental and conducting tissue system in plants.
2. Explain about morphology and anatomy of frog or Cockroach along with its digestive and circulatory system.
3. Classify the Animalia kingdom on the basis of their body plan, symmetry and body cavity. Write the characteristics features of Phylum Porifera, Coelenterata Aschelminthes, Annelida and Echinodermata with examples.