DELHI PUBLIC SCHOOL SAIL TOWNSHIP, RANCHI
WINTER ASSIGNMENT 2018-19
CLASS- IX

ENGLISH

Q1. Compare and contrast the atmosphere in and around the Bandhnath shrine with the Pashupatinath Temple.

Q2. "Love and Care can tame the wildest of all animals."Elucidate in the light of the chapter.

Q3. How did Montmorency contribute in Packing?

Q4. Define Imagery. What are the different types of Imagery.Write an Example of each type.

Q5. "Sometimes bad things in life prove to be a learning experience".Explain in the light of the chapter" The House is not a Home".

MATHEMATICS

Q1. If two equal chords of a circle intersect; Prove that the parts of one chord are separately equal to the parts of the other chord.

Q2. A circle has radius $\sqrt{2}$ cm. It is divided into two segments by a chord of length 2cm. Prove that the angle subtended by the chord at a point in major segment is 45°.

Q3. In the given figure, O is the centre of the circle, $\llcorner$BCO=30°, Find x and y.

$$\llcorner BAE = x,$$

$$\llcorner CBD = y.$$

Q4. In the given figure O is the centre of the circle, BD=OD and CD$\perp$ AB. Find $\llcorner$CAB.

Q5.The diagonals AC and BD of a cyclic quadrilateral ABCD intersect at right angles at E.A line l through E and perpendicular to AB meets CD at F. Prove that F is the mid-point of CD.

PHYSICS

Q1. Longitudinal waves travel at a speed of 10m/s in a coiled spring. If the distance between two successive rarefactions is 10 cm, find the frequency of the wave.

Q2. Find the condition for hearing clear echo in a big auditorium.

Q3. Find the range of wavelengths corresponding to the frequency range in audible region (V=340m/s)

Q4. Explain about SONAR.

Q5.A stone is dropped into a well. The sound of the splash is heard after 2.5s.find the depth of the well. (V=340m/s)

CHEMISTRY

Q1.Calculate Number of electron, proton and neutron for

a) Mg^{2+} b) $N3^-$ c) A1

Q2. Three elements X, Y and Z are represented by $18^{X40}, 20^{Y40}$ and $19^{Z\,39}$. Identify the relation between-(a) X and Y (b) Y and Z

Q3. Write the differences between electron, proton and neutron on the basis of absolute mass, absolute change, relative mass and relative change.

Q4. Explain Green house effect and its consequences.

Q5.Write short note on nitrogen fixation.

BIOLOGY

Q1. Who proposed five kingdom classifications? List three advantages of five Kingdom classifications over two Kingdom classifications.

Q2.On what criteria is Phylum Chordate further classified?

Q3.Wht is meant by Binomial nomenclature. What the rules of writing scientific names?

Q4.What are the various ways by which communicable diseases are transmitted from an infected person to a healthy person?

Q5.Why are antibiotics ineffective in curing viral diseases?

HISTORY

Q1. Write the differences between the ideas of social democrats and revolutionaries.

Q2. Write the differences between the ideas among Louis Blanc, Robert Owen & Karl Marx.

Q3.Why did the Monarch suspend the 3rd Duma and filled it with conservatives if it was a Democratic institutions.

POLITICAL SCIENCE

Q1.What are rights? Why do we need rights?

Q2.Name the six Fundamental rights with features.

Q3.Why is the right to constitutional remedies considered the most important of all rights?

ECONOMICS

Q1.Why is poverty considered as a challenge?

Q2. Explain social exclusion and vulnerability.

Q3. Descibe global poverty trends.

GEOGRAPHY

Q1. Why is the monsoon considered a unifying bond?

Q2. Why is the bulk of rainfall in Indi concentrated over a few months?

Q3. What is Inter Topical convergence Zone?

Q4. Explin the characteristics of the retreating monsoons.

Q5. Explain the term'ENSO'.

IT

Q1. Create a Presentation on "Cyber Crime" of 5 slides.

Q2. Set the Font size, colour and style.

Q3. Insert appropriate header & footer

Q4. Add Background and slide number.

NOTE: - Submit the hardcopy in A4 sheet format containing 5 slides.

हिन्दी

1. 'उन पत्रों को देख - देख कर दिल्ली और शिमला में बैठे वाईसराय लंबी साँस- उसाँस लेते रहते थे |' 'शुक्रतारे के समान' पाठ के आधार पर इस पंक्ति का आशय स्पष्ट करें|

2. 'स्मृति' कहानी के आधार पर लेखक की बहादुरी का वर्णन करते हुए स्पष्ट कीजिये कि साहस और दृढ संकल्प के बल पर किसी भी बाधा पर विजय प्राप्त की जा सकती है |

3. आगामी रविवार को दो मित्रों के बीच पिकनिक पर चलने की योजना को संवाद रूप में लिखिए |

4. 'मधुर भंडार' नामक व्यापारिक प्रतिष्ठान के लिए एक आकर्षक विज्ञापन तैयार कीजिए |

संस्कृत

1. 'मम विद्यालयः' अथवा विद्यालयस्य वार्षिकोत्सवः एतत् विषय अधिकृत संस्कृत भाषायाः पञ्च वाक्यानि रचयत |

2. अधोलिखितनां उपसर्गानां सहायता ध्यो- ध्यो शब्धरचनां कुरुत-
   अति, अनु, प्रति, उप, स, अधि, आ वि, अ, सम |

3. सरस्वती व्याकरण पुस्तकस्य सहायता ध्ये चित्रलेखन कार्ये कुरुत |
   पाठ्यपुस्तक अधिकृत 'अभिमन्यु' अथवा 'जटायु' पत्रस्य परिचयं संस्कृत भाषायां पञ्च वक्येषु दीयताम |