



DAV PUBLIC SCHOOL, SASARAM
DURGA PUJA HOLIDAY HOMEWORK & PROJECT WORK
Class – 10 (Class X)

1. विषय: – संस्कृतम्

1. “भारतीयसंस्कृतौ नारीणां स्थानम्” इति विषयमधिकृत्य संस्कृते विंशतिः वाक्यानि लिखत।
2. “दुर्गापूजा भारतीयसंस्कृतेः गौरवम्” इति विषयमधिकृत्य संस्कृते विस्तृतम् अनुच्छेदं लिखत।

2. विषय – हिंदी

गृह कार्य (H.A.)

1. महानगरों की फ्लैट -कल्चर 'और लेखिका मन्नू भंडारी के' पड़ोस- कल्चर' में क्या अंतर दिखाई देता है? विचार करते हुए लिखिए?
2. संगतकार किस प्रकार के व्यक्ति का प्रतीक है? 'संगतकार' कविता के आधार पर लिखिए।

परियोजना कार्य (P.W.)

3. तुलसीदास के जीवन -परिचय को लिखिए। (सचित्र चार्ट पेपर पर)

3. Subject – Social Science

Q1. Why was Martin Luther in favour of print and spoke out in praise of it?

Q2. What are the functions of political parties?

Q3. On the political map of India locate and label the following with suitable symbols.

- a) Digboi oil field

- b) Bassien oil field
- c) Raniganj coal mines
- d) Talcher coal fields
- e) Namrup Thermal power plant

4. Subject – English

Q. No. 1.

How does the incident involving the dead cow change the mood of the story? What lesson might Valli learn from this experience?

Q. No. 2.

Do you think Valli becomes more mature after her journey? Explain how her experiences contribute to her understanding of life?

5. Subject – Science

Physics

1. Find expressions (three forms) for amount of heat produced in a conductor when electric current flows through it.
2. How many 144 Ohm registers connected in parallels are required to carry current 3ampere on 108 volt line.

Chemistry

3. Discuss in detail about vital force theory and why this was discarded?
4. Describe in detail – why carbon can't form $C4^+$ and $C4^-$?

Biology

5. A gardener wants to produce several rose plants with the same desirable characteristics as the parent plant.
 - a) Which method of reproduction should the gardener use?
 - b) Why is this method preferred over growing plants from seeds?

c) Will this method produce exactly identical offspring in every case? Give a reason.

6. A flower has both stamens and a pistil.

a) What type of flower is it?

b) Differentiate between self-pollination and cross-pollination.

c) How does pollination differ from fertilisation?

d) Why is fertilisation necessary for seed formation?

6. Subject – Mathematics

1. A tower stands vertically on level ground. From a point 30 m away from its foot, the angle of elevation of its top is 60° . Find the height of the tower. (Use $\sqrt{3} = 1.732$, if required.)

2. From the top of a 50 m high lighthouse, the angle of depression of a boat at sea is 30° . Find the horizontal distance of the boat from the foot of the lighthouse. (Assume the sea is level.)

3. The angle of elevation of the top of a building from a point on the ground is 30° . On moving 20 m towards the building, the angle of elevation becomes 60° . Find the height of the building.

4. From the top of a 60 m high building, the angles of depression of two cars on the same straight road and on the same side of the building are 45° and 30° , respectively. Find the distance between the two cars.

5. A kite is flying at a height of 60 m above the ground. The string is straight and makes an angle of 60° with the horizontal. Assuming the string is taut and the hand holding it is at ground level, find the length of the string.

Note: Complete all the assigned homework and project work neatly and submit it after the Durga Puja holidays.