

XII SCIENCE (PRACTICAL + PROJECT WORK)

ENGLISH

Please undergo the following questions and maintain your practical work accordingly, writing on only one side of the A4 size papers. Prepare your files fairly and do these tasks completely.

Questions for Practical Work- XII

1. Write an email to your friend (living in France) explaining the disastrous effects your country is facing because of brain drain.
2. Write a letter to the editor of a national daily newspaper about the impact of globalization in our culture and traditions.
3. Write a job application for the post of a junior officer addressing the General Manager of a reputed bank in Nepal.
4. Write the story of a film you've recently watched.
5. Compose a story that ends with the following moral 'A wise enemy is better than foolish friend'.
6. Write an application to the principal of your school requesting to provide you full scholarship.

NEPALI

नेपाली विषयको परियोजना कार्य - २०८२ पूरा गर्दा ध्यान दिनुपर्ने कुराहरू

(नोट : कक्षा १२ को नेपाली र व्याकरण किताब सुरु देखि अन्त्यसम्म पढनुहोस्, बुझनुहोस् र निम्न लिखित शीर्षकहरू खोजी एक एक ओटा नमुना लेखेर परियोजना कार्य तयार गर्नुहोस् ।)

पृष्ठ क्रमश :

१. आवरण पृष्ठ (कभर पेज)

२. विषय सूची

३. व्यक्तिगत विवरण- फोटोसहित (बायोडाटा)

४. तमसुकको नमुना (नेपाली कागजमा)

४. सम्पादकलाई चिठी

५. मन्जुरीनामाको नमुना

✓ परियोजना कार्य ए फोर साइजको फोटोकपी पेपरमा गर्नुपर्ने छ । सुन्दर/आकर्षक कभर पेज बनाई तोकिएको शीर्षक अनिवार्य रूपमा प्रस्ट खुल्ने गरी बनाउनुपर्ने छ । तमसुकको नमुना प्रस्तुत गर्दा अनिवार्य रूपमा नेपाली कागजमा कालो मसीले लेखेर बुझाउनुपर्ने छ ।

✓ परियोजना तयार गर्दा बाहिरपट्टि कुनै प्रकारको प्लास्टिक कभर नराखी स्ट्यापलर पिन लगाएर टेप बाइन्डिङ गर्न सकिने छ ।

✓ ढाँचा पूर्ण रूपमा नमिलेको पाइएमा पुनः गर्न लगाइने छ ।

MATHEMATICS

1. Concept of Permutation and Combination. (Roll No 1-7)
2. Binomial theorem and its application. (Roll No 8-14)
3. Concept of conic section. (Roll No 15-21)
4. Derivatives and its application. (Roll No 21-28)
5. Linear programming and its application in daily life. (Roll No 29-35)
6. Antiderivatives and its Application. (Roll No 36-Remaining)

PHYSICS

You have to work on specified topic from the list given below.

Roll No	Project Work
1, 2, 3	To study the moment of inertia and radius of gyration of a body.

4, 5, 6	To study the simple harmonic motion and its characteristics.
7, 8, 9	To study the pressure exerted by a liquid and laws of liquid pressure.
10, 11, 12	To study the Archimede's Principle and its verification.
13, 14, 15	To study the Stationary or Standing wave and formation of nodes and antinodes.
16, 17, 18	To study the different types of waves in nature.
19, 20, 21	To study the factors affecting the velocity of sound in air.
22, 23	To study the Newton's and Laplace's formula for velocity of sound in air.
24, 25	To study the Huygen's principle and to verify the laws of reflection.
26, 27	To study the Huygen's principle and to verify the laws of refraction.
28, 29	To study the Kirchoff's laws and its application.
30, 31	To study the operation of Wheatstone's bridge circuit and its application.
32, 33	To study the Meter bridge and its application.
34, 35	To study the potentiometer and its application to compare the emf of two cells.
36, 37	To study the potentiometer and its application to determine the internal resistance of a cell.
38, 39	To study the conversion of galvanometer into ammeter and voltmeter.
Remaining	To study the magnetic force on moving charge particle.

CHEMISTRY

- To study the different types of food preservative used in different food available in the market. (*Roll No: 1-4*)
- To study the adverse effect of synthetic plastic in the environment. (*Roll No: 5-8*)
- To observe the raw materials required, steps of manufacturing and quality endorsement of cement in cement industry. (*Roll No: 9-12*)
- To study the positive and negative effects of drugs. (*Roll No: 13-16*)
- To study the presence of pesticides residues in fruits and vegetables. (*Roll No: 17-20*)
- Explore the use of organic compounds as dyes. (*Roll No: 21-24*)
- Highlight the use of organic compounds for cleaning up pollutants. (*Roll No: 25-28*)
- Highlight the organic compounds found in medicinal plants. (*Roll No: 29-32*)
- Determination of micro-organic contaminants in ground water. (*Roll No: 33-38*)
- Qualitative detection of formaldehyde and ammonia in fish and other seafoods. (*Roll No: 38-Remaining*)

COMPUTER SCIENCE

- Prepare a Project report providing a brief review of one of the e-commerce platforms operating in Nepal.

BIOLOGY

- FOR SECTION R:** A SURVEY ON THE COMMON COMMUNICABLE DISEASES PREVAILING IN (Fill the name of local area you choose for your study)
- FOR SECTION S:** A SHORT REPORT ON THE ORGAN TRANSPLANTATION IN NEPAL.
- FOR SECTION V:**
 - AMNIOCENTESIS PRACTICES IN NEPAL. (*Roll No. 1 – 5*)
 - ORGAN TRANSPLANTATION IN NEPAL. (*Roll No. 6 – 10*)
 - ROLE OF BIO-TECHNOLOGY IN NEPAL. (*Roll No. 11 – 15*)
 - NATURE OF CHLOROPLAST AND LIGHT EFFECT ON PHOTOSYNTHESIS. (*Roll No. 16 – 20*)
 - SURVEY OF HUMAN PHENOTYPIC CHARACTERS. (*Roll No. 21 – 25*)
 - A SURVEY OF COMMON COMMUNICABLE DISEASES PREVAILING IN (*Roll No. 26 – 30*)
 - A REPORT ON THE NON-COMMUNICABLE DISEASES IN NEPAL. (*Roll No. 31 – 35*)
 - TRENDS, CAUSES AND CONSEQUENCES OF HUMAN MIGRATION IN NEPAL. . (*Roll No. 36 – 42*)

[Students need to submit the practical + project work by **FRIDAY, KARTIK 14, 2082 (OCT 31)**]