

SUMMER VACATION ASSIGNMENT SESSION 2024-25 CLASS: XII OPTIONAL SUBJECTS

General Instructions:

- 1. Write in a clear and legible handwriting.
- 2. Complete all the homework in a separate subject Summer Vacation Homework Notebook.
- **3. DO NOT COPY AND PASTE FROM THE INTERNET**. (Assignment will be rejected)
- **4.** In case of reference from the internet, you may:
 - A. Read the content from the internet, if you wish and paraphrase (Rewrite in your own words)
 - B. Mention the source of your information by providing the link from the internet for the verification by the teachers.
- **5.** Marks awarded will be counted in the final scores at the end of the session.
- **6.** The Summer Vacation HW will be submitted immediately upon arrival to school after Summer Vacation.
- 7. For any assignment related query do post your question on E-Mail Id of respective subject teacher. List of Subject Teacher's E-Mail ID attached.

Note for the Parents:

Parents are requested to guide his/her wards to complete their assignments honestly and submit by the due date.



SESSION 2024-25 CLASS: XII

SUBJECT: INFORMATICS PRACTICES

1. In a database create the following tables with suitable constraints:

STUDENTS

!	Admilio Name	!	Class	!	Sec	!	PNo		Address	Phone
ï	1271 Utkarsh Madsan	ï	12	i	С	ī	1		C-32, Runjabi Bagh	4356154
1	1324 Namesh Sharma	1	10	1	A	1	1	1	31 , Mohan Nagar	435654
1	1325 Md. Yusuf	1	10	1	A	1	2	1	12/21, Chand Hagar	145654
i	1328 Sumedha	i	10	1	B	1	23	1	59, Noti Hagar	4135654
i	1364 Subya Akhtar	i	11	i	B	i	13	i	12, Janak Puri	MULL
i	1434 Varuna	i	12	i	B	1	21	1	69, Rohini	MULL
i	1461 David DSousa	í	11	i	B	i	1	i	D-34, Model Town	243554, 98787665
i	2324 Satinder Singh	i	12	i	C	i	1	i	1/2, Gulmchar Park	143654
i	2328 Peter Jones	i	10	i	A	i	18	i	21/32B, Vishal Enclave	24356154
i	2371 Mohini Mehta	i	11	-		i			37, Raja Garden	435654, 6765787

SPORTS

1	AdmNo	Game	CoachName	Grade	ı
+-		-+	+	+	+
1	1324	Cricket	Narendra	A	ı
1	1364	Vollaball	M.P. Singh	A	ı
1	1271	Volleball	M.P. Singh	B	ı
1	1434	Basket Ball	I. Malhotra	B	ı
1	1461	Cricket	Narendra	B	ı
1	2328	Basket Ball	I. Malhotra	A	ı
ı	2371	Basket Ball	I. Malhotra	A	ı
1	1271	Basket Ball	I. Malhotra	A	ı
1	1434	Cricket	Narendra	A	ı
ı	2328	Cricket	Narendra	B	ı
1	1364	Basket Ball	I. Malhotra	B	1

(a) Based on these tables write SQL statements for the following queries:

- i. Display the lowest and the highest classes from the table STUDENTS.
- ii. Display the number of students in each class from the table STUDENTS.
- iii. Display the number of students in class 10.
- iv. Display details of the students of Cricket team.
- v. Display the Admission number, name, class, section, and roll number of the students whose grade in Sports table is 'A'.
- vi. Display the name and phone number of the students of class 12 who are play some game.
- vii. Display the Number of students with each coach.

- viii. Display the names and phone numbers of the students whose grade is 'A' and whose coach is Narendra.
- (b) Identify the Foreign Keys (if any) of these tables. Justify your choices.
- (c) Predict the the output of each of the following SQL statements, and then verify the output by actually entering these statements:
 - i. SELECT class, sec, count(*) FROM students GROUP BY class, sec;
 - ii. SELECT Game, COUNT(*) FROM Sports GROUP BY Game;
- iii. SELECT game, name, address FROM students, Sports WHERE students.admno = sports.admno AND grade = 'A';
- iv. SELECT Game FROM students, Sports WHERE students.admno = sports.admno AND Students.AdmNo = 1434;
- 2. Consider the following table 'Cloth' and display name of cloth in capital letters purchased in year 2020.

CCode	CName	Size	Colour	Price	DOP
C001	Jeans	L	Blue	1230.67	11/12/20
C002	Jeans	XL	Blue	1340.89	14/12/20
C003	Shirt	XL	Red	870.50	24/11/20
C004	Trouser	L	Khaki	990.99	02/01/21
C005	T-Shirt	XL	White	552.45	08/01/21

- i. for given table 'Cloth' of Practical 1, write SQL command to display number of cloths purchased each year.
- ii. Write the output of the following SQL command: SELECT ROUND(288.795,-2);
- iii. For table 'Salesman' with fieldnames sid, sname, zone, amount, Write SQL command to display all salesman name in descending order.

3. Consider table 'Items' and write SQL query

Icode	Iname	Brand	Qty	Rate
101	Soap	Lux	100	34
102	Salt	Patanjali	110	20
103	Sugar	Patanjali	200	56
104	Coffe	Nestle	60	140
105	Maggi	Nestle	90	83
106	Cake	Britannia	20	10
107	Biscuit	Britannia	130	5
108	Musturd Oil	Patanjali	75	180
109	Jam	Kissan	20	54
110	Tea	Brook Bond	30	160

- i. pwrite SQL query to display average qty available for each Brand where average qty is/are more than 50.
- ii. For given table 'Items' of Practical 5, Display minimum rate of item of 'Patanjali'.Practical 7: Write SQL command to display name of weekday of your date of birth.
- iii. Write SQL command to count number of characters in your school name.
- iv. Display the output of following SQL command: SELECT RIGHT(SUBSTR('GATEWAY OF INDIA',-8,5),2);
- v. Write SQL command to calculate cube of 8
- vi. Write the output of SQL command: SELECT LENGTH(TRIM("###techtipnow computers##")); (# refers to blank space)



SUBJECT: PHYSICAL EDUCATION

Practical Record Topics:

Write all the Practical Topics in your Lab Manual register of Physical Education:

- Practical-1: Fitness tests administration. (SAI Khelo India Test- 600 M Run/walk, 50 m dash, Partial curl up, Sit and Reach test, Push Up Test, Modified Push Up Test)
- > Practical-2: Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease. (Eight Asanas)
- > Practical-3: Anyone one IOA recognized Sport/Game of choice. Labelled diagram of Field & Equipment. Also, mention its Rules, Terminologies & Skills. (Football, Basketball, Volleyball, Badminton)



SESSION 2024-25

CLASS: XII

SUBJECT: PSYCHOLOGY (037)

CASE STUDY FILE:

- Case study is an in depth analysis of a person.
- You are required to choose a person on whom you want to do your case study. The person should be from 14-18 years of age and willing to cooperate with you.

FILE WORK

- INDEX (LEAVE IT BLANK AS OF NOW)
- INTRODUCTION TO CASE STUDY FILE (HEADING)
 EXPLAIN CASE STUDY METHOD; ADVANTAGES AND DISADVANTAGES
 OF THIS METHOD (3-4 POINTS)
- PRECAUTIONS TAKEN (VOLUNTARY PARTICIPATION; INFORMED CONSENT; DEBRIEFING AND SHARING RESULTS; CONFIDENTIALITY – REFER TO CLASS 11TH NCERT PSYCHOLOGY BOOK)
- TOOLS USED FOR COLLECTING DATA:
 - 1. OBSERVATION METHOD (EXPLAIN)
 - 2. INTERVIEW METHOD (EXPLAIN)
 - 3. PSYCHOLOGICAL TEST (EXPLAIN)
 P.S.: REFER TO CLASS 11TH NCERT BOOK
 - REASONS FOR CHOOSING MY SUBJECT
- RAPPORT FORMATION:

A friendly conversation was carried out to make the subject feel at ease. I assured the subject that results would be kept confidential. All of his/her queries related to the study were clarified.

Page 1 | 4

- PRELIMINARIES INFORMATION:
- NAME
- **❖** AGE
- ❖ GENDER
- ❖ BIRTH ORDER
- ❖ NUMBER OF SIBLING
- ***** EDUCATION
- ❖ LOCALITY OF RESIDENCE
- * RELIGION
- ❖ PARENTAL EDUCATION AND OCCUPATION
- **❖** FAMILY INCOME
- ❖ SUBJECT MEDICAL HISTORY
- INTROSPECTIVE REPORT
- INTERVIEW:
- ❖ SUBJECTS INTERVIEW QUESTIONS:
- 1. Who is your role model?
- 2. Do you enjoy the company of your family?
- 3. What stream you have chosen and why?
- 4. How often do you go out with your family?
- 5. Do you enjoy your studies?
- 6. What kind of entertainment you like?
- 7. In what kind of environment do you enjoy the most?
- 8. What are your hobbies?
- 9. Is there any kind of restriction put on you by your family?
- 10. Do you feel shy in talking to people in a group?
- 11. Do you share your problems with your family?
- 12. What is your aim in life
- 13. Whom do you trust the most in your family?
- 14. Will you do something that your family objects to?
- 15. How much time do you take out for your family?
- 16. Do you trust your friends?
- 17. What kind of looks interests you the most?
- 18. Are you short tempered?

PARENT INTERVIEW : MOTHER

- 1. Do you trust your son / daughter?
- 2. Do you force him/her to do anything which he/she wouldn't do?
- 3. Do you trust his /her friends?
- 4. Do you take him/her out on outing regularly?
- 5. Do you force him/her in terms of studies?
- 6. Do you believe in giving pocket money to your child?
- 7. Is he/she very moody?
- 8. How often do you allow your son/daughter to go out with his/her friends?
- 9. Are you satisfied with the company of your friends?
- 10. What kind of passion do you see in your child?
- 11. Does your child listen to you?
- 12. Does he /she hesitate in sharing problems with you?
- 13. Have you ever allowed your child to drive your vehicle?
- 14. Do you think mobile phone is necessary for your child?
- 15. Are you possessive about your child?
- 16. What qualities of him / her do you like the most
- 17. Are you aware of his /her hobbies?
- 18. What is his /her attitude towards life?

PARENT INTERVIEW: FATHER

- Do you trust your son / daughter?
- ❖ Do you force him/her to do anything which he/she wouldn't do?
- ❖ Do you trust his /her friends?
- ❖ Do you take him/her out on outing regularly?
- ❖ Do you force him/her in terms of studies?
- ❖ Do you believe in giving pocket money to your child?
- Is he/she very moody?
- ❖ How often do you allow your son/daughter to go out with his/her friends?
- ❖ Are you satisfied with the company of your friends?
- ❖ What kind of passion do you see in your child?
- ❖ Does your child listen to you?
- Does he /she hesitate in sharing problems with you?

Page 3 | 4

- ❖ Have you ever allowed your child to drive your vehicle?
- ❖ Do you think mobile phone is necessary for your child?
- ❖ Are you possessive about your child?
- ❖ What qualities of him / her do you like the most
- ❖ Are you aware of his /her hobbies?
- ❖ What is his /her attitude towards life?

FRIEND'S INTERVIEW

- 1. Since when have you been friends with him /her?
- 2. How far do you trust him /her?
- 3. Do you like his /her company
- 4. Are you proud of your friend
- 5. Do you know about his likes and dislikes
- 6. What is his /her ain in future
- 7. How often do you meet him /her
- 8. What do you appreciate the most about him/her?
- 9. Is he/she into habit of smoking or drinking?
- 10. Does he /she listen to his /her parents?
- 11. What kind of sports he likes
- 12. Whether he/she goes out for parties?
- 13. Is he /she satisfied with the pocket money he /she gets
- 14. 14.Does he/she takes studies seriously
- 15. Is he /she ready to face challenges in life

☐ INTERVIEW ANALYSIS

- ❖ SUBJECT INTERVIEW ANALYSIS (SUMMARY OF RESPONSES THAT YOU HAVE RECIEVED)
- ❖ SUBJECT'S MOTHER INTERVIEW ANALYSIS
- ❖ SUBJECT'S FATHER INTERVIEW ANALYSIS
- SUBJECT'S FRIEND INTERVIEW ANALYSIS

□ OBSERVATION METHOD

❖ REPORT OF SUBJECT'S OBSERVATION (SHARE HOW HE /SHE IS IN SCHOOL / WITH FRIENDS /WITH PARENTS I.E. ACCORDING TO YOUR OBSERVATION)

REST OF THE FILE WORK WILL BE DONE AFTER SUMMER HOLIDAYS



SUBJECT: ENTREPRENEURSHIP

General Instructions:

- 1. Write in neat handwriting.
- 2. Complete all homework in respective Subject Notebook or as per instructions given by the respective Subject Teachers.
- 3. You may use color and graphics to decorate your work.
- 4. Assignment, Project, Videos must be uploaded in the given Google Form link/any other mode instructed by your Subject Teacher.
- 5. Do not copy and paste from the internet. (Assignment will be rejected)
- 6. In case of reference from the internet, you may:
 - A. Read the content from the internet, if you wish and paraphrase (rewrite in your own words)
 - B. Mention the source of your information by providing the link from the internet for the verification by the Teachers.
- 7. Marks to be awarded that will count in final scores at the end of the session.

Note for the Parents -

Parents are requested to guide his/her wards to complete their assignments honestly and by the due date.

COLLECTING THE INFORMATION OF ANY INDUSTRY (DIFFERENT FROM OTHERS) AND MAKE THEIR OWN PROJECT FILE WITH INNOVATIVE IDEA.



SESSION 2024-25 CLASS: IX, X , XI, & XII

SUBJECT: HINDI

कक्षा 9 - पोर्टफोलियो परियोजना

कक्षा 10 - पोर्टफोलियो परियोजना

कक्षा - 11 वीं और 12 वीं

- कक्षा 11 (क) ग्रामीण जीवन का चित्रण करने वाली कविता एवं कहानी लिखिए।
 - (ख) ग्रीष्म ऋतु के माह में हम अपने स्वस्थ्य का ख्याल कैसे रखे ? विस्तार से लिखें।
 - (ग) अपने पाठयपुस्तक से 5 कवि / कवियत्रि और 5 लेखक/लेखिका का संछिप्त जीवन परिचय लिखिए।
 - (घ) एक अच्छे समाचार लेखक और संवाददाता (समाचार बोलने वाला) बनने के लिए कौन-कौन सी विशेषताएँ होनी चाहिए।
- कक्षा 12 (क) शहरी एवं ग्रामीण जीवन का चित्रण करने वाली कविता एवं कहानी लिखिए।
 - (ख) ग्रीष्म ऋतु, वर्षा ऋतु और शीत ऋतु का लाभ बताते हुए तीनों ऋतु की विशेषताओं का वर्णन अपने शब्दों में कीजिए।
 - (ग) अपने पाठ्यपुस्तक से 5 कवि/कवियत्रि और 5 लेखक/लेखिका का संछिप्त जीवन परिचय लिखिए।
 - (घ) छायावाद के स्तम्भ चारों कवियों की विशेषताएँ लिखिए।

गणेश चंद्रवंशी हिंदी विभागाध्यक्ष



SUBJECT: APPLIED MATHEMATICS

TO BE DONE IN MILKY FILE

QUESTION: Write a brief description on any one topic given below (page

limit at least 10)

1. Linear programming

- 2. Application of derivative
- 3. Numerical inequalities
- 4. Time series
- 5. Probability
- 6. Inferential statistics



SESSION - 2024-25 CLASS: XII

SUBJECT: COMPUTER SCIENCE (083)

1. What is a string slice? If a = "blueberry" evaluates the following:

(a) a[2:3]

(b) a[2:]

(c) a[:3]

(d) a[:]

(e) a[-1:-3]

(f) a[:-1]

(g) a[1:1]

2. Read the following pieces of code. Determine whether they will be executed successfully or not. If yes, show the result that would be printed. If not, explain why not.

(a) myTuple1 = (1,2,3) myTuple1.append(4) print(myTuple1)

(b) myTuple2 = (1,2,3) myTuple3 = (4) print(myTuple2+myTuple3)

(c) myList = [0,3,4,1] myList.remove(3) print(mylist)

3. Beside each expression, write "LEGAL" if the expression is legal python code, or "ERROR" if the expression would cause an error.

Assume that myList, myTuple, and myString are a list, a tuple, and a string, respectively, and all contain at least one element.

1. myList = myList + [4]

2. myList.append(4)

3. del myList[0]

4. myTuple myTuple + (4,)

5. myTuple.append(4)

6. del myTuple[0]

7. myString = myString + "4"

8. myString.append(4)

9. del myString[0]

4. Assume each of the following lines is entered in the IDLE shell one at a time. Circle any of the lines that produces an error. If no errors are found then write what is printed (from a and b).

```
a = [[[1, 2, 3, 4, 5], [6,7,8]],9]
a[-1] = 200
b = a[:]
b[0][0][3] = 17
print(a)
print(b)
```

6. Create a Report file with your last class programming experience in python make solutions and write it.

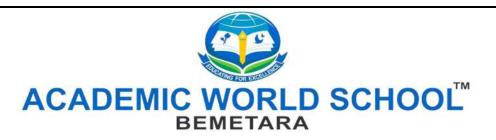
Note: Do all Questions on notebook Except Q.6.

For Q.6 You can submit your report file with including any 8 quality questions of basic python in your practical file with proper output & explanation.

For example-

- Determine whether a number is a perfect number, an Armstrong number or a palindrome.
- Input a number and check if the number is a prime or composite number.
- Display the terms of a Fibonacci series.
- Compute the greatest common divisor and least common multiple of two integers.
- Count and display the number of vowels, consonants, uppercase, lowercase characters in string.
- Input a string and determine whether it is a palindrome or not; convert the case of characters in a string.
- Find the largest/smallest number in a list/tuple
- Input a list of numbers and swap elements at the even location with the elements at the odd location.
- Input a list/tuple of elements, search for a given element in the list/tuple.

- Create a dictionary with the roll number, name and marks of n students in a class and display the names of students who have marks above 75.
- Write a program to perform sorting on a given list of strings, on the basis of just the first letter of the strings. Ignore all other letters for sorting purposes.
- Write a program that sort a list of tuple elements in order. The tuple element of the list contain following information about different players:
- (player number, player name, points)
- Write a random number generator that generates random numbers between 1 and 6 (simulates a dice).
- Write a program with a user-defined function with string as a parameter which replaces all vowels in the string with "*".
- Write a Python program to sort a dictionary by key.
- Write a program to accept values from a user in a tuple. Add a tuple to it and display its elements one by one. Also display its maximum and minimum value.



SUBJECT: PAINTING

- 1. * Painting: INDIAN TRADITIONAL FOLK ART USING NATURAL FEATHER TO COMPLETE THE COLOUR.
- 2. Make any of this composition drawing while using any medium i.e shading, water colour, acrylic colour etc.





SUMMER VACATION ASSIGNMENT SESSION 2024-25 CLASS: XII SUBJECT- HINDUSTANI MUSIC (036)

General Instructions

- (i) All questions are compulsory.
- (ii) All questions belong to Unit-1 Comparative studies of Talas.
- (iii) Word Limit should not exceed 150-200 words.

Last submission Date: 15/06/2024

Assignment Questions

- 1. Explain playing techniques of Tabla Varna's (Alphabets).
- 2. Explain similarities and dissimilarities of following mentioned Talas:-
 - (a) Chautal-Ektala (b) Jhaptala-Sultala (c) Teentala-Tilwada



SUMMER VACATION ASSIGNMENT SESSION 2024-25

CLASS: XII SUBJECT : YOGA

Practical Record Topics:

Practical File - 15 Marks Students to make a practical file / report. (Approx 18 pages) Suggested list of Practicals –

- 1. Repition of Asana
- 2. Practice of Tadasana
- 3. Practice of ArdhaChakrasana
- 4. Practice of Katichakrasana
- 5. Practice of Dandasana
- 6. Practice of Bhadrasana
- 7. Practice of Padamasana
- 8. Practice of Vajrasana
- 9. Practice of Utanmandukasana
- 10. Practice of kakasana
- 11. Practice of Parvatasana
- 12. Practice of Makrasana
- 13. Practice of Uttanpadasana
- 14. Practice of Setubandhasana
- 15. Practice of Vipritkarniasana
- 16. Practice of Saral matsyasana
- 17. Practice of Shavasana
- 18. Repition of Pranayam
- 19. Practice of Jalandhar and Uddayan Bandh
- 20. Repition of Mudras
- 21. Practice of breath Meditation and OM Dhyan



SESSION 2024-25

CLASS: XII (HUMANITIES)
SUBJECT: MARKETING

General Instructions:

- 1. Write in neat handwriting.
- 2. Complete all homework in respective Project file or as per instructions given by the respective Subject Teachers.
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Note for the Parents -

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Ouestion:

What is a Marketing Strategy? Choose <u>any one</u> company out of the following or you can choose any top brand company. Explain in detail their marketing strategies and what makes them a top brand. A complete history of the founders, the methods they have adopted, any innovative strategy they have been following for years. Do a thorough research and make it in a project file of 6-7 pages.

The following companies are as under:

- (a) Nike
- (b) Coco-Cola
- (c) Taco-Bell
- (d) Mama Earth

(e) Nykaa



SUBJECT: LEGAL STUDIES

TEACHERS: PRAGATI UPADHYAY

INTRODUCTION:

The student is required to do a project on 'Understanding Case Laws'

OBJECTIVES:

The project work aims to enable students to:

- identify a legal problem and provide its remedy
- select relevant legal sources and conduct research
- analyse and distinguish between types of cases
- apply case laws and relevant statutory laws

METHODOLOGY-: The student is required to select any **3 decided cases** related to the curriculum where one must be civil in nature, one criminal and one constitutional in character.

The research on the cases must include the following points:

- Name of the case
- Parties to the case
- Citation to the case
- Bench
- Nature of the case (Civil, Criminal or Constitutional)
- Facts of the case and issues involved
- Decision of the case including Ratio Decidendi and Obiter Dicta



SUBJECT: APPLIED MATHEMATICS

TO BE DONE IN MILKY FILE

QUESTION: Write a brief description on any one topic given below (page limit at least 10)

- 1. Linear programming
- 2. Application of derivative
- 3. Numerical inequalities
- 4. Time series
- 5. Probability
- 6. Inferential statistics

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