

PRABHU DAYAL PUBLIC SCHOOL
CLASS 12TH (HUMANITIES)
HOLIDAY HOMEWORK (2025-2026)

ENGLISH

THE **PROJECT - PORTFOLIOS** IS A COMPILATION OF THE WORK THAT THE STUDENTS PRODUCE DURING THE PROCESS OF WORKING ON THEIR ALS PROJECT

THE PROJECT- PORTFOLIO MAY INCLUDE THE FOLLOWING

1. COVER PAGE, WITH TITLE OF PROJECT, SCHOOL DETAILS / DETAILS OF STUDENTS.
2. STATEMENT OF PURPOSE /OBJECTIVES /GOALS
3. CERTIFICATE OF COMPLETION UNDER THE GUIDANCE OF THE TEACHER.
4. ACTION PLAN FOR THE COMPLETION OF ASSIGNED TASKS.
5. MATERIALS SUCH AS SCRIPTS FOR THE SURVEY, QUESTIONNAIRES FOR INTERVIEW AND OTHER MATERIAL EVIDENCE OF LEARNING PROGRESS AND ACADEMIC ACCOMPLISHMENT
6. THE 800 -1000 WORDS ESSAY / SCRIPT /REPORT
7. STUDENT REFLECTIONS
8. IF POSSIBLE, PARAGRAPHS THAT CAPTURE THE POSITIVE LEARNING EXPERIENCES OF THE STUDENTS
9. LISTS OF RESOURCES / BIBLIOGRAPHY

SELECT **ANY ONE TOPIC OF YOUR CHOICE** AND PREPARE THE PROJECT WORK FOR CBSE PRACTICAL EXAM.

1. THE IMPACT OF GLOBALIZATION ON THE ECONOMY AND SOCIETY.
2. EXPLORING THE ROLE OF TECHNOLOGY IN EDUCATION.



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3. CLIMATE CHANGE: CAUSES, EFFECTS, AND SOLUTIONS.
4. GENDER EQUALITY AND WOMEN EMPOWERMENT.
5. MENTAL HEALTH AWARENESS AND STRATEGIES FOR COPING WITH STRESS.
6. THE FUTURE OF WORK: AUTOMATION, AI, AND EMPLOYMENT TRENDS.
7. THE ROLE OF MEDIA IN SHAPING PUBLIC OPINION AND DEMOCRACY.
8. THE IMPACT OF SOCIAL MEDIA ON INTERPERSONAL RELATIONSHIPS.
9. URBANIZATION: OPPORTUNITIES AND CHALLENGES IN DEVELOPING COUNTRIES.
10. CYBERSECURITY: THREATS AND PREVENTIVE MEASURES.
11. PRESENT A BRIEF REPORT ON THE LIFE AND WORKS OF ANY ONE OF THE POETS/AUTHORS OF YOUR CHOICE.(FROM THE PRESCRIBED TEXTS)
12. CHILD LABOUR -A STUMBLING BLOCK ON THE ROAD TO DEVELOPMENT.
13. TERROISM AND ITS IMPACTS.
14. USE OF ARTIFICIAL INTELLIGENCE AND ITS PROS AND CONES
15. CONTRIBUTIONS MADE BY ANONYMOUS INDIANS TO THE FREEDOM MOVEMENT.
OR THE UNSUNG HEROES OF FREEDOM MOVEMENT. (INDIGO)

GEOGRAPHY

Q 1 "DISCRIMINATION ON THE BASIS OF GENDER IS A CRIME AGAINST HUMANITY".
SUGGEST TWO MEASURES TO OVERCOME THIS PROBLEM.

Q 2 "THERE ARE MANY CHALLENGES FOR THE SOCIETY AS FAR AS ADOLESCENTS ARE
CONCERNED". SUGGEST TWO MEASURES TO OVERCOME THIS PROBLEM.

TABLE BASED QUESTIONS

Q 3 STUDY THE TABLE GIVEN BELOW AND ANSWER THE QUESTIONS THAT FOLLOW:



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Table 1.1 : Decadal Growth Rates in India, 1901-2011

| Census Years | Total Population | Growth Rate* | |
|---|------------------|-----------------|-------------|
| | | Absolute Number | % of Growth |
| 1901 | 238396327 | ----- | ----- |
| 1911 | 252093390 | (+) 13697063 | (+) 5.75 |
| 1921 | 251321213 | (-) 772117 | (-) 0.31 |
| 1931 | 278977238 | (+) 27656025 | (+) 11.60 |
| 1941 | 318660580 | (+) 39683342 | (+) 14.22 |
| 1951 | 361088090 | (+) 42420485 | (+) 13.31 |
| 1961 | 439234771 | (+) 77682873 | (+) 21.51 |
| 1971 | 548159652 | (+) 108924881 | (+) 24.80 |
| 1981 | 683329097 | (+) 135169445 | (+) 24.66 |
| 1991 | 846302688 | (+) 162973591 | (+) 23.85 |
| 2001 | 1028610328 | (+) 182307640 | (+) 21.54 |
| 2011** | 1210193422 | (+) 181583094 | (+) 17.64 |
| * Decadal growth rate: $g = \frac{P_2 - P_1}{P_1} \times 100$ where P_1 = population of the base year P_2 = population of the present year ** Source : Census of India, 2011 (Provisional) | | | |

- I) WHY 1921 IS KNOWN AS YEAR OF DEMOGRAPHIC DIVIDE IN INDIA'S POPULATION GROWTH / WHICH YEAR FACED DECLINE IN POPULATION & WHY?
- II) WHICH DECADE HAS SHOWN THE NEGATIVE TREND OF GROWTH OF POPULATION?
- III) WHICH DECADES ARE KNOWN AS THE PERIOD OF POPULATION EXPLOSION?
- IV) MENTION ANY TWO DECADES IN WHICH THE PERCENTAGE DECADAL GROWTH HAS SHOWN THE REGULAR DOWNWARD TREND?
- V) MENTION ANY TWO REASONS FOR THE DECLINING TREND IN THE POPULATION GROWTH RATE AFTER 1981.

CASE STUDY

Q 4 READ THE GIVEN PASSAGE CAREFULLY AND ANSWER THE QUESTIONS THAT FOLLOW:

SETTLEMENTS VARY IN SIZE AND TYPE. THEY RANGE FROM A HAMLET TO METROPOLITAN CITIES. WITH SIZE, THE ECONOMIC CHARACTER AND SOCIAL STRUCTURE OF SETTLEMENTS CHANGES AND SO DO ITS ECOLOGY AND TECHNOLOGY. SETTLEMENTS COULD BE SMALL AND SPARSELY SPACED; THEY MAY ALSO BE LARGE AND CLOSELY SPACED. THE SPARSELY LOCATED SMALL SETTLEMENTS ARE CALLED VILLAGES, SPECIALIZING IN AGRICULTURE OR OTHER PRIMARY ACTIVITIES. ON THE OTHER HAND, THERE ARE FEWER BUT LARGER SETTLEMENTS WHICH ARE TERMED AS URBAN SETTLEMENTS SPECIALIZING IN SECONDARY AND TERTIARY ACTIVITIES. THE BASIC DIFFERENCES BETWEEN RURAL AND URBAN



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SETTLEMENTS ARE AS FOLLOWS:

☒ THE RURAL SETTLEMENTS DERIVE THEIR LIFE SUPPORT OR BASIC ECONOMIC NEEDS FROM LAND BASED PRIMARY ECONOMIC ACTIVITIES, WHEREAS, URBAN SETTLEMENTS, DEPEND ON PROCESSING OF RAW MATERIALS AND MANUFACTURING OF FINISHED GOODS ON THE ONE HAND AND A VARIETY OF SERVICES ON THE OTHER.

☒ CITIES ACT AS NODES OF ECONOMIC GROWTH, PROVIDE GOODS AND SERVICES NOT ONLY TO URBAN DWELLERS BUT ALSO TO THE PEOPLE OF THE RURAL SETTLEMENTS IN THEIR HINTERLANDS IN RETURN FOR FOOD AND RAW MATERIALS. THIS FUNCTIONAL RELATIONSHIP BETWEEN THE URBAN AND RURAL SETTLEMENTS TAKES PLACE THROUGH TRANSPORT AND COMMUNICATION NETWORK.

☒ RURAL AND URBAN SETTLEMENTS DIFFER IN TERMS OF SOCIAL RELATIONSHIP, ATTITUDE AND OUTLOOK. RURAL PEOPLE ARE LESS MOBILE AND THEREFORE, SOCIAL RELATIONS AMONG THEM ARE INTIMATE. IN URBAN AREAS, ON THE OTHER HAND, WAY OF LIFE IS COMPLEX AND FAST, AND SOCIAL RELATIONS ARE FORMAL.

A) HOW IS RURAL SETTLEMENT DIFFERENT FROM URBAN SETTLEMENT?

B) 'TOWNS ACT AS NODES OF ECONOMIC GROWTH.' JUSTIFY THE STATEMENT.

C) SOCIAL RELATIONSHIPS ARE MORE INTIMATE IN RURAL AREAS IN COMPARISON TO URBAN AREAS. GIVE ONE REASON FOR THE SAME.

PRACTICAL WORK

IMPORTANT INSTRUCTIONS

- * DO THE PRACTICAL WORK ON A3 SHEETS.
- * SHEETS CAN BE PLAIN OR COLOURED.
- * DON'T USE RED COLOUR FOR HEADINGS OR WRITTEN WORK.
- * WRITTEN WORK, DIAGRAMS, TABLES AND MAPS SHOULD BE LEGIBLE AND ACCURATE.

PRACTICAL WORK IN GEOGRAPHY PART –II NCERT TEXTBOOK

CHAPTER 1 -DATA ITS SOURCE AND COMPILATION

CHAPTER 2- DATA PROCESSING

CHAPTER 3- GRAPHICAL REPRESENTATION OF DATA

CHAPTER 4-SPATIAL INFORMATION TECHNOLOGY



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THEORY PART

GEOGRAPHY MAP FILE

REFER THE MAP LIST MENTIONED IN THE GEOGRAPHY SYLLABUS 2025-26 BY CBSE FOR BOTH FUNDAMENTALS OF HUMAN GEOGRAPHY TEXTBOOK AND INDIA PEOPLE AND ECONOMY TEXTBOOK.

IMPORTANT INSTRUCTIONS:

- * MAKE THE MAP FILE ON A 4 SHEETS.
 - * SHEETS CAN BE PLAIN OR COLOURED.
 - * DON'T USE RED COLOUR FOR HEADINGS OR WRITTEN WORK.
 - * MAP WORK SHOULD BE ACCURATE AND NEAT STRICTLY FOLLOWING THE NCERT TEXTBOOK.
- ° REVISE THE COMPLETED SYLLABUS FOR PERIODIC WRITTEN TEST I

POLITICAL SCIENCE

I. CREATE A PROJECT FOLLOWING THE CBSE GUIDELINES PROVIDED.

TOPIC: ASSIGNED IN THE CLASSROOM BASED ON ROLL NUMBERS.

GUIDELINES:

1. THIS PROJECT IS TO BE COMPLETED INDIVIDUALLY.
2. IT SHOULD BE HANDWRITTEN ON A4 SHEETS.
3. THE LENGTH OF THE PROJECT SHOULD RANGE FROM 15 TO 20 PAGES.
4. CONDUCT COMPREHENSIVE RESEARCH, INCORPORATING FACTS, FIGURES, DATES, AND VISUALS.
5. THE PROJECT MAY INCLUDE HYPOTHESES AND SURVEYS TO SUPPORT YOUR FINDINGS.
6. THE PROJECT SHOULD INCLUDE THE FOLLOWING SECTIONS:
 - COVER PAGE



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- CERTIFICATE
- ACKNOWLEDGEMENT
- INDEX/ CONTENT
- INTRODUCTION
- SUB-TOPICS ACCORDING TO INDEX
- CONCLUSION/REFLECTION
- BIBLIOGRAPHY

7. THE PROJECT FILE'S APPEARANCE SHOULD BE THEMATICALLY CONSISTENT WITH THE ASSIGNED TOPIC.

II. CULTIVATE THE HABIT OF READING THE NEWSPAPER ON A DAILY BASIS, WITH PARTICULAR EMPHASIS ON THE EDITORIAL SECTION.

III. REVISE THE CHAPTERS THAT WERE COVERED PRIOR TO THE SUMMER BREAK.

हिंदी

मौखिक अभिव्यक्ति

प्रश्न 1 अपने पसंदीदा घटना/ मुद्दे/ सूचना पर हिंदी में समाचार वाचन तैयार कीजिए तथा उसका वीडियो भी बनाइए। (5 अंक की कक्षा गतिविधि हेतु)

रचनात्मक व क्रियात्मक कौशल

प्रश्न 2 समाचार लेखन क्या है? समाचार लेखन की सबसे लोकप्रिय शैली के बारे में लिखिए एवं इसके लिए मन के नक्शे (MIND MAP) तैयार कीजिए।

प्रश्न 3 एक दिन के किन्हीं दो हिंदी समाचार पत्रों का संकलन कीजिए, उनको पढ़िए एवं दिए गए संकेत बिंदुओं के संदर्भ पर उनका तुलनात्मक अध्ययन कीजिए-

- सूचनाओं का मुख्य केंद्र / आकर्षण
- समाचार का पृष्ठ एवं स्थान
- समाचार की प्रस्तुति
- समाचार की भाषाशैली

प्रस्तुतीकरण कौशल



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प्रश्न 4 निम्नलिखित में से किसी एक विषय पर ब्लॉग (वेबलॉग) तैयार कीजिए-

- आर्टिफिशियल इंटेलिजेंस का भविष्य
- नवाचार और स्टार्टअप
- अपनी पसंदीदा किताबें / मूवीज़ / टीवी शो

नोट:- प्रथम सामयिक लिखित परीक्षा (PWT 1) हेतु निर्धारित पाठ्यक्रम का अभ्यास कीजिए।

• परियोजना कार्य- कुल 10 अंक

परियोजना (प्रोजेक्ट) और मौखिक परीक्षा (वाइवा) के लिए आवंटित अंक शिक्षक द्वारा प्रस्तुतीकरण एवं प्रोजेक्ट के आधार पर दिए जाएंगे।

परियोजना बनाने के लिए निर्देश:-

- परियोजना के पोर्टफोलियो में निम्नलिखित को शामिल करें -
 1. परियोजना के शीर्षक, छात्र के विद्यालय के विवरण के साथ कवर पेज़।
 2. आभार
 3. पूर्णता का प्रमाण पत्र
 4. सीखने के उद्देश्य
 5. कार्य योजना
 6. परियोजना का विषय और परिचय
 7. परियोजना की सामग्री (800-1000 शब्दों का निबंधात्मक रिपोर्ट) परियोजना के विषय का समर्थन करने के लिए सचित्र साक्ष्य, समाचार पत्र की कटिंग और प्रासंगिक सूचनाओं का विवरण।
 8. परियोजना रिपोर्ट (आपके विचार और सुझाव)
 9. छायाचित्र (परियोजना तैयार करते समय की आपकी तस्वीरें)
 10. ग्रंथ सूची
- परियोजना का मूल्यांकन दिए गए रूब्रिक्स और उनकी प्रासंगिकता के आधार पर किया जाएगा। दिए गए सभी दिशानिर्देशों को परियोजना में शामिल किया जाना है।
- परियोजना के विषय के आधार पर परीक्षक द्वारा मौखिक परीक्षा आयोजित की जाएगी।

विषय:- छात्र शिक्षक के परामर्श से नीचे दिए गए विषयों में से किसी एक विषय का निर्धारण करने और दिए गए मार्गदर्शन के



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अनुसार काम करने के लिए स्वतंत्र हैं:-

1. नवाचार और स्टार्टअप
2. प्रकाश प्रदूषण : एक नवीन समस्या
3. आर्टिफिशियल इंटेलिजेंस का भविष्य
4. मानसिक स्वास्थ्य उतना ही महत्वपूर्ण है जितना कि शारीरिक फिटनेस (छात्रों को एक मनोवैज्ञानिक या मनोचिकित्सक के पास जाना चाहिए और हाल के आधुनिक मुद्दों और आज के युवाओं द्वारा सामना की जाने वाली समस्याओं पर एक केस आधारित प्रोजेक्ट तैयार करना चाहिए।)
5. छात्र कोई भी पॉडकास्ट/साक्षात्कार/रेडियो/टीवी वृत्तचित्र सुन सकते हैं, (प्रेरणादायक होना चाहिए और अपने शिक्षक के साथ चयनित विषय पर चर्चा करनी चाहिए और फिर आगे बढ़ना चाहिए।)
6. हिंदी में रोज़गार के अवसर
7. इंटरनशिप- किशोरों के लिए एक आवश्यकता
8. भारत के विकास को लेकर आपका सपना
9. जनरेशन गैप - समाज का एक उभरता हुआ मुद्दा
10. किसी एक हिंदी साहित्यकार का व्यक्तित्व एवं कृतित्व

*** परियोजना का मूल्यांकन करते समय निम्नलिखित बिंदुओं पर विचार किया जाएगा:-**

1. परियोजना की गुणवत्ता या सामग्री
 2. सूचना की प्रासंगिकता और सटीकता
 3. विचारों एवं धारणाओं की स्पष्टता
 4. रचनात्मकता
 5. अभिव्यक्ति (व्याकरण और वर्तनी)
 6. शोध कार्य वाइवा वॉयस परियोजना के विषय के आधार पर आयोजित किया जाएगा और छात्रों का मूल्यांकन निम्नलिखित मापदंडों पर किया जाएगा-
1. उच्चारण
 2. शब्दावली
 3. प्रवाह
 4. प्रासंगिकता
 5. सटीकता



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नोट- (परियोजना कार्य हाथ से लिखा जाना चाहिए, हालांकि कवर पेज़, अनुक्रमाणिका और प्रमाणपत्र मुद्रित किया जा सकता है।)

MEDIA STUDIES

***PROJECT: PREPARE A 4-5 MINUTE DOCUMENTARY* ON ANY *ONE* OF THE TOPICS LISTED BELOW.**

TOPICS:

1. ***THE LIFE OF A TREE*** – DOCUMENT THE HISTORY AND SIGNIFICANCE OF AN ANCIENT TREE IN YOUR LOCALITY.
2. ***URBAN WILDLIFE: ANIMALS ADAPTING TO CITIES***– EXPLORE HOW SPECIES LIKE LEOPARDS, MONKEYS, AND BIRDS SURVIVE IN URBAN LANDSCAPES.
3. ***THE MYSTERY OF MEDICINAL PLANTS*** – INVESTIGATE INDIGENOUS KNOWLEDGE AND THE HEALING POWER OF NATURE.
4. ***THE UNTOLD STORIES OF HISTORICAL MONUMENTS*** – UNCOVER LESSER-KNOWN FACTS ABOUT FAMOUS SITES LIKE QUTUB MINAR, RED FORT, OR HAMPI.
5. ***THE ARCHITECTURAL MARVELS OF ANCIENT INDIA*** – EXAMINE THE SCIENCE BEHIND TEMPLES, FORTS, AND STEPWELLS.
6. ***THE LOST CITIES OF INDIA*** – DOCUMENT RUINS LIKE VIJAYANAGARA OR DHOLAVIRA.
7. ***THE SECRET TUNNELS & HIDDEN CHAMBERS*** – EXPLORE MYTHS AND MYSTERIES SURROUNDING FAMOUS MONUMENTS.
8. ***A DAY IN THE LIFE OF A MONUMENT CARETAKER*** – HIGHLIGHT THE PEOPLE WHO PRESERVE HISTORY BEHIND THE SCENES.

GUIDELINES:

- THIS IS A GROUP ACTIVITY, WHERE EACH STUDENT WILL PLAY A SIGNIFICANT ROLE.
- RESPONSIBILITIES INCLUDE RESEARCH, FILMING, EDITING, VOICE-OVER NARRATION, AND ADDING SUBTITLES TO THE DOCUMENTARY.
- ENSURE THE DOCUMENTARY IS ENGAGING, WELL-RESEARCHED, AND VISUALLY APPEALING.
- CREATIVITY AND TEAMWORK ARE KEY ELEMENTS— MAKE IT INFORMATIVE, COMPELLING, AND UNIQUE

REVISE THE SYLLABUS COVERED FOR PWTI.



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ECONOMICS

1. PRACTICE THE FOLLOWING NUMERICAL QUESTIONS:

*PRACTISE ANY 10 NUMERICAL OF NATIONAL INCOME. SHOW YOUR WORKINGS CLEARLY.

*QUESTIONS ARE TO BE DONE IN YOUR CLASS REGISTERS ONLY.

2. PREPARE A PROJECT AS PER CBSE GUIDELINES AS BRIEFED IN THE CLASS. YOU HAVE TO ABIDE BY THE TOPIC ALLOTTED TO YOU ONLY.

GUIDELINES -

*USE A RING FILE AS YOUR PROJECT FILE AND COVER IT NEATLY. WRITE YOUR PARTICULARS ON THE PROJECT FILE

WHICH INCLUDE- NAME, BOARD ROLL. NO, SUBJECT, CLASS & SECTION, SESSION: 2025-26 AND TOPIC.

* PROJECT SHOULD BE OF 25-30 (EXCLUDING GRAPHS AND DIAGRAMS) COVERING THE ENTIRE

CONTENT AND SHOULD BE HAND WRITTEN ONLY.

*YOU CAN INCLUDE NEWSPAPER ARTICLES, IMF/WORLD BANK REPORTS, NITI AAYOG REPORTS, GOVERNMENT

POLICIES ETC.

* PLAGIARISM IS NOT ALLOWED AND YOU MUST MENTION THE SOURCE OF THE INFORMATION TO ENSURE

AUTHENTICITY OF THE RESEARCH WORK.

*PRESENTATION OF THE PROJECT SHOULD BE IN THE FOLLOWING MANNER-

1. TOPIC
2. ACKNOWLEDGEMENT
3. CERTIFICATE
4. INDEX
5. INTRODUCTION OF TOPIC



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6. CAUSES, CONSEQUENCES AND REMEDIES
7. VARIOUS STAKEHOLDERS AND EFFECT ON EACH OF THEM
8. ADVANTAGES AND DISADVANTAGES OF SITUATIONS OR ISSUES IDENTIFIED.
9. SHORT-TERM AND LONG-TERM IMPLICATIONS OF ECONOMIC STRATEGIES SUGGESTED IN THE COURSE OF RESEARCH.
10. A **CASE STUDY** OR REAL LIFE APPLICATION OF THE TOPIC IS A MUST.
11. CONCLUSION
12. BIBLIOGRAPHY – CITATION OF MATERIALS REFERRED TO SHOULD BE INCLUDED.
13. THANK YOU SHEET

PHYSICAL EDUCATION

1. PROJECT OVER THREE LIFE STYLE DISEASE WITH PROCEDURE OF FIVE ASANAS, BENEFITS AND CONTRADICTION FOR EACH LIFESTYLE DISEASE
2. PROJECT OF PHYSICAL FITNESS TEST - SAI KHELO INDIA FITNESS TEST
3. EXPLAIN IN DETAIL FEMALE ATHLETE TRIAD

INFORMATICS PRACTICES

Q.1. ANSWER THE FOLLOWING BASED ON THE SERIES GIVEN BELOW.

```
IMPORT PANDAS AS PD
```

```
LIST1=[1,2,3,4,5,6,7,8]
```

```
LIST2=['SWIMMING','TT','SKATING','KHOKHO', 'BB', 'CHESS', 'FOOTBALL',"CRICKET"]
```

```
SCHOOL=PD.SERIES(LIST1,INDEX=LIST2)
```

```
SCHOOL.NAME=("LITTLE")
```

```
PRINT (SCHOOL*2) #STATEMENT 1
```

```
PRINT (SCHOOL.TAIL(3)) # STATEMENT 2
```

```
PRINT (SCHOOL["TT"]) # STATEMENT 3
```



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```
PRINT (SCHOOL[2:4]) # STATEMENT 4
```

```
PRINT (SCHOOL[SCHOOL<3]) #5
```

```
L3=[3,4,5]
```

```
S2=PD.SERIES(DATA=L3*2)
```

```
PRINT(S2) # 6
```

I. CHOOSE THE CORRECT NAME OF THE SERIES OBJECT GIVEN ABOVE.

A) LIST1 B) LIST2 C) SCHOOL D) LITTLE

II. WRITE THE CORRECT OUTPUT FOR THE SIX PRINT STATEMENTS ABOVE

III GIVE THE OUTPUT OF THE FOLLOWING PROGRAM

```
IMPORT PANDAS AS PD
```

```
S =PD.SERIES([10,20,30,40,50,60,70,80],INDEX =['A','B','C','D','E','F','G','H'])
```

```
PRINT(S[1:4])
```

```
PRINT(S[:7:3])
```

IV FILL THE MISSING STATEMENT TO RETRIEVE THE FIRST THREE ELEMENTS IN THE SERIES

```
IMPORT PANDAS AS PD
```

```
S =PD.SERIES([1,2,3,4,5],INDEX =['A','B','C','D','E'])
```

```
PRINT(S[ _ ]) 
```

ITS OUTPUT IS AS FOLLOWS -

A 1

B 2

C 3

V FILL THE MISSING VALUES TO GET THE DESIRED OUTPUT.

```
IMPORT PANDAS AS PD
```

```
NAME=['HARSH','ARUN','ANKUR','HARPAHUL','DIVYA','JEET']
```

```
EMPNO=[101,102,103,104,105,106]
```

```
P=PD.SERIES(_____,INDEX=_____)
```



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```
PRINT ('NAME OF EMPNO 103 IS',P[____])
```

OUTPUT

NAME OF EMPNO 103 IS ANKUR

VI WRITE CODE TO SHOW ROWS OF THOSE EMPNO WHICH ARE GREATER THAN 103

```
IMPORT PANDAS AS PD
```

```
EMPNO=[101,102,103,104,105,106,107]
```

```
P=PD.SERIES(EMPNO)
```

(VII) WRITE PYTHON CODE TO CREATE THE FOLLOWING SERIES

101 HARSH

102 ARUN

103 ANKUR

104 HARPAHUL

105 DIVYA

106 JEET

A. SHOW DETAILS OF 1ST 3 EMPLOYEES USING HEAD COMMAND

B. SHOW DETAILS OF LAST 3 EMPLOYEES USING TAIL COMMAND

C. SHOW DETAILS OF 1ST 3 EMPLOYEES WITHOUT USING HEAD COMMAND

D. SHOW DETAILS OF LAST 3 EMPLOYEE WITHOUT USING TAIL COMMAND

E. SHOW VALUE OF INDEX NO 102

F. SHOW 2ND TO 4TH RECORDS

G. SHOW VALUES OF INDEX NO=101,103,105

H. SHOW DETAILS OF "ARUN"

Q.2 DATAFRAME

***CONSIDER THE GIVEN DATAFRAME STOCK AND ANSWER THE FOLLOWING QUESTIONS:**

| ITEM | MANF | QTY | PRICE |
|------|------|-----|-------|
|------|------|-----|-------|



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| | | | | |
|-----|--------|---------|----|-------|
| L1 | LAPTOP | DELL | 5 | 45000 |
| M1 | MOBILE | SAMSUNG | 2 | 12000 |
| L2 | LAPTOP | ACER | 3 | 30000 |
| MS1 | MOUSE | HP | 10 | 1000 |

A. WRTIE THE CODE TO CREATE THE ABOVE DATAFRAME

B.DISPLAY THE DETAILS OF ALL THE LAPTOPS (USE BOOLEAN INDEXING)

C. DISPLAY THE DETAILS OF MANUFACTURERS WITH PRICES

D INSERT A COLUMN NAMED "COLOR" WITH THE FOLLOWING VALUES (BLACK, BLACK, GREY, WHITE)

E.INSERT THE GIVEN ROWS TO STORE THE FOLLOWING DETAILS

| | ITEM | MANF | QTY | PRICE | COLOUR |
|-----|---------|------|-----|-------|--------|
| M2. | MOBILE | OPPO | 15 | 15000 | BLUE |
| SP1 | SPEAKER | BOSE | 4 | 20000 | RED |

F. DISPLAY THE DETAILS OF THOSE ITEMS WHICH HAVE PRICE LESS THAN 15000

G. REMOVE THE COLUMN COLOR PERMANENTLY

H. DISPLAY THE ITEMS OF SAMSUNG COMPANY IN THE STOCK

I. ADD A COLUMN NAMED "RATING" WITH THE FOLLOWING VALUES ("A+","A","B","B+","A","A+")

J. DELETE ROW WITH INDEX LABEL L2 TEMPORARILY.

K. DISPLAY FIRST TWO ROWS

L. DISPLAY SHAPE, SIZE OF THE DATAFRAME

Q.3 SQL (REVISION XI CLASS)

A DEPARTMENTAL STORE 'ICONIC' IS PLANNING TO AUTOMATE ITS SYSTEM SO THAT THEY CAN STORE ALL THE RECORDS ON COMPUTER. THEY CONTACTED A SOFTWARE COMPANY TO MAKE THE SOFTWARE FOR THE SAME. THE COMPANY SUGGESTED THAT THERE IS NEED OF A FRONT END AND BACK-END SOFTWARE. THE MAJOR CHALLENGE WAS TO KEEP THE RECORD OF ALL THE ITEMS AVAILABLE IN THE STORE. TO OVERCOME THE PROBLEM, THE SOFTWARE COMPANY HAS SHOWN THE GLIMPSES OF THE DATABASE AND TABLE REQUIRED TO RESOLVE THEIR PROBLEM:

DATABASE NAME: ICONIC

TABLE NAME: GARMENT



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ATTRIBUTES OF THE TABLE: GCODE – NUMERIC PRIMARY KEY, GNAME – CHARACTER 25, SIZE - CHARACTER 5, COLOUR – CHARACTER 10, PRICE – NUMERIC

A) WRITE THE STATEMENT TO CREATE THE GARMENT TABLE

CONSIDER THE FOLLOWING RECORDS IN 'GARMENT' TABLE AND ANSWER THE GIVEN QUESTIONS:

Table: GARMENT

| GCODE | GNAME | SIZE | COLOUR | PRICE |
|-------|-----------|------|--------|---------|
| 111 | Tshirt | XL | Red | 1400.00 |
| 112 | Jeans | L | Blue | 1600.00 |
| 113 | Skirt | M | Black | 1100.00 |
| 114 | Jacket | XL | Blue | 4000.00 |
| 115 | Trousers | L | Brown | 1500.00 |
| 116 | LadiesTop | L | Pink | 1200.00 |

- B) WRITE THE STATEMENT TO INSERT ANY ONE RECORD
- C) WRITE THE STATEMENT TO DELETE THE RECORD WITH GCODE AS 116
- D) GIVE THE OUTPUT OF : SELECT GNAME, PRICE FROM GARMENT ORDER BY PRICE DESC;
- E) WRITE THE STATEMENT TO CHANGE THE COLOUR OF GARMENT WITH CODE AS 116 TO "ORANGE"
- F) WHAT IS THE DEGREE AND CARDINALITY OF 'GARMENT' TABLE?
- G) WRITE THE STATEMENT TO DISPLAY SIZE WITHOUT DUPLICATE
- H) WRITE THE STATEMENT TO DISPLAY RECORDS IN THE PRICE RANGE 1100 TO 1500

Q.4 COMPLETE PRACTICAL FILE QUESTIONS OF PYTHON PANDAS Q 1 TO 10 AND MAIL THE SOFT COPY TO MAIL ID PDPSWORK@GMAIL.COM .

Q.5 PROJECT WORK

THE AIM OF THE CLASS PROJECT IS TO CREATE TANGIBLE AND USEFUL IT APPLICATIONS. THE LEARNER MAY IDENTIFY A REAL-WORLD PROBLEM BY EXPLORING THE ENVIRONMENT. E.G. STUDENTS CAN VISIT SHOPS/BUSINESS ,PLACES, COMMUNITIES OR OTHER ORGANIZATIONS IN THEIR LOCALITIES AND ENQUIRE ABOUT THE FUNCTIONING OF THE ORGANIZATION, AND HOW DATA ARE GENERATED, STORED, AND MANAGED. THE LEARNER CAN TAKE DATA STORED IN CSV OR DATABASE FILE AND ANALYZE USING PYTHON LIBRARIES AND GENERATE APPROPRIATE CHARTS TO VISUALIZE.

DATA CAN BE IMPORTED IN PANDAS FOR ANALYSIS AND VISUALIZATION. LEARNERS CAN USE PYTHON



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LIBRARIES OF THEIR CHOICE TO DEVELOP SOFTWARE FOR THEIR SCHOOL OR ANY OTHER SOCIAL GOOD. AVOID PLAGIARISM AND VIOLATION OF COPYRIGHT ISSUES WHILE WORKING ON PROJECTS.

Q.6 DESIGN A BEAUTIFUL A4 SIZE POSTER ON ANY OF THE GIVEN TOPICS

PYTHON XII E

SQL XIIIE

COMPUTER NETWORK XII E

CYBER SAFETY ---XII C

DIGITAL SOCIETY ,LAW AND ETHICS -- XII C

REVISE THE SYLLABUS FOR PWT1

***NOTE: Q 1 TO 4 TO BE DONE IN IP REGISTER**



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