LITTLE FAIRY PUBLIC SCHOOL

Summer Holidays Homework CLASS-XII (2025-26)

This summer vacation the Holiday Homework is designed with the aim the of activity based learning. It includes assignments and activities that will foster curiosity, develop creativity, enhance knowledge and instill the joy of learning and doing it in the right-spirit with enthusiasm will make it a great learning experience.

- Discover a new and better you who is enriched and confident and performs every action with utmost perfection.
- It's the perfect time for strengthening family bond, sharing festivities, joys and sorrows, having a good time together.
- Make sure to take some time to focus on interesting books and read as much as you can about the places and people.
- Take good care of your health and hygiene. In this scorching heat, keep yourself well hydrated and energetic.
- > Engage yourselves in morning walks, yoga, exercise, meditation with your parents or grandparents.
- \blacktriangleright Revise all the work done in the class.
- Make sure that your work is neat, presentable, and original and conforms to the guidelines given homework as directed by the teachers

Holiday homework is an attempt to channelize the creative energy; it keeps you connected with the syllabus. **1. ENGLISH**

(I) WRITTEN ASSIGNMENT :-Instruction : Activity 1-5 is to be done in English notebook.

Activity 1) Write notice in each of the following:

(A) Drive Notice (B) Lost (C) Found (D) Celebration

Activity 2.) Answer the following questions in 30-40 words each:

- i How and why was M. Hamel dressed differently that day?
- ii Why has the poet brought in the image of the merry children 'spilling out of their homes'?
- iii Why does the poet look outside? What activities does the poet see outside the car window?
- iv How does the narrator describe himself? What made him take the subway from Grand Central?
- v The narrator got lost once when he ducked into an arched doorway heading for the subway. Where did he come out?
- vi What strange things did the narrator see when he reached the third level of Grand Central?

Activity 3.) Answer the following questions in 120-150 words:

- i What message did the writer convey in "The Last Lesson"?
- ii My Mother at sixty six" is an emotional account of the poet about her old mother. Discuss.
- iii Aging is a natural process; have you ever thought about what our elderly parents expect from us ?
- iv Do you think that the third level was a medium of escape for Charley? Why?
- v The modern world is full of insecurity, fear, war, worry, tension and stress. What are the ways in which we attempt to overcome them?
- vi Did Sam really go to Galesburg or was it Charley's figment of imagination?

Activity 4) Write a passage on the theme linguistic chauvinism with reference to the chapter "THE LAST LESSON"

Activity 5) 'Then he turned to the blackboard, took a piece of chalk and, bearing on with all his might, wrote as large as he could-Vive La France!' Abraham Lincoln, a former President of America said, "I like to see a man proud of the place in which he lives. I like to see a man so that his place will be proud of him." After reading the lesson and the above quote you begin to reflect on the lost spirit of patriotism amongst the youth in India due to which there is no respect for one"s countrymen and no determination amongst the youth to lead the country to a better future. Write an article in about 150-200 words for a national magazine on the need for revival of patriotic spirit amongst the youth in India.

(II) PROJECT WORK : Instructions for making the project:

- Select <u>any one</u> of the given topics for your English Project.
- The project must contain at least 20-25 sheets
- Use as many pictures/photographs as you require Use sketch pens for headings and coloured pens for content.

• Use A4 size coloured /designer paper sheets for the project and after compiling everything it should be submitted in spiral binding/Project file

NOTE: THE PROJECT SHOULD BE HANDWRITTEN

Topic 1 : PLIGHT OF OLD AGED PEOPLE (My Mother At Sixty Six)

1. Index

2.Acknowledgement

3. Certificate of Completion

4.Objectives

5. About the Poetess (with photos)

6.Poetess' Personal Experience - Common Paradox of Human Relationships

7. Portrayal of Sensational Separation Between a Mother and a Daughter

8. Plight of Old Aged People: Ugly Truth About Old Age (with photos)

9.Reasons Behind the Need of Old Age Homes

10.Efforts for Stress-Free and Secured Life of Aged People

11. Visit to an Old Age Home (photos of some aged people living in such homes)

12. How to Strike a Balance Between Duties and Responsibilities of Children and Society

13.Role of Youth to Improve the Plight of Aged People

14. Conclusion / Learning outcome

15. Bibliography or References

TOPIC 2: INDIGO – THE EMANCIPATION OF SHARECROPPERS BY MAHATMA GANDHI

1. Index

2. Acknowledgement

3.Certificate of Completion

4 Objectives

5.About the author

6. What is Indigo Sharecropping? (Brief history)

7.Natural Indigo Harvesting and its uses (pictures)

8. Theme of Indigo

9. Role of Rajkumar Shukla

10. Summary of Indigo

11.Efforts by Gandhi to put an end to Sharecropping in Champaran

12.Gandhi as an effective leader

13. Conclusion / Learning outcome

14. .Bibliography

TOPIC 3: THE RATTRAP: ESSENTIAL GOODNESS CAN BE AWAKENED THROUGH UNDERSTANDING AND LOVE..

1. Index

2.Acknowledgement

3.Certificate of Completion.

4.Objectives

5. Author's Biography. (With Pictures)

6.Introduction: THEME- loneliness/ need for a bonding/ faith in humanity/ kindness/compassion

7. Summary and analysis

8. Character sketch of major characters

9- The letter by Rattrap peddler- Significance

10. Conclusion / Learning outcome

11. .Bibliography or References.

TOPIC 4:A THING OF BEAUTY AND IT'S ROLE IN HUMAN LIFE

1. Index

2. Acknowledgement

- 3. Certificate of Completion
- 4. Objective
- 5. About author John Keats (pictures)

6. Different characteristics of nature like it's eternal, changeless, perfect, source of true happiness, etc)(beautiful pictures of Nature)

7. Comparison of human life and Nature (1page)

For example:	
HUMAN	NATURE
Change	Changeless
Mortal	Immortal
Death & \Decay	Eternal

8.Description of beautiful things in nature like

Rivers: Symbol of excitement, adventure, healing, never ending supply of life...

Sun: equality, light, hope royalty, divinity, positivity power..

Trees: lively, wisdom, prosperity, transformation...

Animals: divine, moving, growing, fertility, happiness elegance, strength , energy wisdom.... Flowers: purity, hope, beautiful, Innocence, humility, youthful.... Beauty of Mighty dead :Stories of Saints and sages, their work and deeds, how they immortalized themselves(Maximum 6-7 pages with pictures)

9.Any 10 Central idea of -THING OF BEAUTY.

10. Conclusion / Learning outcome

11. Bibliography or References.

TOPIC 5: CHILD LABOUR IN INDIA (LOST SPRING)

1.Index

2. Acknowledgement

3 Certificate of Completion

4.Objective

5. Child Labour with reference to Lost spring (summary)

6. Lives of children like Saheb and Mukesh

- 7. Describe Seemapuri (with pictures)
- 8.Hazards of Bangle making industry
- 9. Initiative agsinst child, labour by Indian government, various NGOs

10 SOS children's village in India,

- 11. The child Prohibition and regulation act 1986.
- 12. Ways to eliminate labour
- 13. Conclusion / Learning outcome
- 14.. Bibliography.

2. MATHEMATICS

(I) **PRACTICAL WORK:**Complete the following Lab Activities in the Practical File.

- Activity -1 (a)To verify that the relation R in the set L of all lines in a plane, defined by $R = \{(l, m) : l \perp m\}$ is symmetric but neither reflexive nor transitive.
- Activity-1 (b) To verify that the relation R in the set L of all lines in a plane, defined by R = {(l, m) : l || m} is an equivalence relation.
- Activity-2 To find analytically the limit of a function f(x) at x = c and to check the continuity of the function at that point.
- Activity-3 To understand the concepts of decreasing and increasing functions.
- Activity-4 To understand the concepts of local maxima, local minima and point of inflection. Activity-6 To construct an open box of maximum volume from a given rectangular sheet by cuttingequal squares from each corner.

(II) ACTIVITY FILE:

- i Make a chart of the formulae, i.e FORMULAE SHEET chapterwise on A4 sheets.
- ii Make FLASH CARDS of FUNCTIONS on A4 sheets

(III) CREATIVE WORK: Draw MIND MAPS on A4sheets chapterwise.

(IV) PROJECT WORK:

i Make a maths working model on "Vedic maths in Daily life".

- ii Model must be working, innovative, problem solving, original and economical .
- iii Thermocol must strictly not be used.

(V) WRITTEN ASSIGNMENT:

i Do NCERT textbook exercise based questions in Notebook,

ii Solve EXEMPLAR questions and COMPETENCY based Questions in your Practice Notebook.

3. CHEMISTRY:

(I) **PROJECT WORK :** PREPARE A INVESTIGATORY PROJECT/ RESEARCH WORK ON ANY TOPIC RELATED TO CHEMISTRY

Example 1:. Waste to chemicals: Transforming wastes and residues to energy, fuels and other useful chemicals.

Example 2. Endangered elements: Managing and extraction, use, reuse and alternative development for elements in the chemical enterprise that are facing critical supply risks. **DWRTITTEN ASSIGNMENT**.

(II)WRTITTEN ASSIGNMENT:

Do practice of numericals and chapter wise MCQ, Assertion Reason and Case Study Based Questions of the given chapters in Chemistry Notebook .

Chapter 6: Haloalkenes and Haloarenes

Chapter 7: Alcohols, Phenol and Ether

Chapter 8: Aldehydes Ketones and Ethers

Do the back exercise questions of NCERT in Chemistry Notebook.

4. PHYSICS

- Do Do the above assignment in your physics notebook.
- Complete 6 activities in physics activity file and 4 experiment in practical file.
- Revise NCERT chapter 1,2 and 3
- Practice NCERT exercise questions and examples of chapter 1,2 and 3
- Prepare physics project file with working model as discussed in class related to the cbse syllabus.

5.COMPUTER SCIENCE

- 1. What will be the output of the following statements?
 - a) list1 = [12,32,65,26,80,10] list1.sort() print(list1)
 - b) list1 = [12,32,65,26,80,10] sorted(list1) print(list1)
 - c) list1 = [1,2,3,4,5,6,7,8,9,10]list1[::-2]list1[:3] + list1[3:]
 - d) list1 = [1,2,3,4,5]list1[len(list1)-1]
- Consider the following list myList. What will be the elements of myList after each of the following operations? myList = [10,20,30,40]
 - a) myList.append([50,60])
- b) myList.extend([80,90])
- 3. What will be the output of the following code segment? myList = [1,2,3,4,5,6,7,8,9,10]

for i in range(0,len(myList)): if i%2 == 0: print(myList[i]) 4. What will be the output of the following code segment? a) myList = [1,2,3,4,5,6,7,8,9,10]delmyList[3:] print(myList) b) myList = [1,2,3,4,5,6,7,8,9,10]delmvList[:5] print(myList) c) myList = [1,2,3,4,5,6,7,8,9,10]delmyList[::2] print(myList) 5. Consider the following dictionary stateCapital: stateCapital = {"Assam":"Guwahati", "Bihar":"Patna", "Maharashtra":"Mumbai", "Rajasthan":"Jaipur"} 6 Find the output of the following statements: a) print(stateCapital.get("Bihar")) b) print(stateCapital.keys()) c) print(stateCapital.values()) d) print(stateCapital.items()) e) print(len(stateCapital)) f) print("Maharashtra" in stateCapital) g) print(stateCapital.get("Assam")) h) delstateCapital["Assam"] print(stateCapital) 7. What will be the output? 1. >>>t1 = (1, 2, 4, 3)2. >>>t2 = (1, 2, 3, 4)3. >>>t1 < t2a)True b)False c)Error d) None 8. Which of the following statements create a dictionary? b) $d = {\text{``john'':40, ``peter'':45}}$ a) $d = \{\}$ c) $d = \{40: "john", 45: "peter"\}$ d) All of the mentioned 9. Read the code shown below carefully and pick out the keys? $d = {"john":40, "peter":45}$ a) "john", 40, 45, and "peter" b) "john" and "peter" d) d = (40:"john", 45:"peter")c) 40 and 45 10. What will be the output? $d = {"john":40, "peter":45}$ "john" in d a) True b) False c) None d) Error 11. What will be the output? $d1 = {"john":40, "peter":45}$ $d2 = \{"john": 466, "peter": 45\}$ d1 == d2a) True b) False c) None d) Error 12. What will be the output? $d1 = {"john":40, "peter":45}$ $d2 = {"john":466, "peter":45}$ d1 > d2a) True b) False c) Error d) None

(hint: dictionary does not support relational operator >, <, >= , <=)

13. What is the output? $d = {"john":40, "peter":45}$ d["john"] a) 40 b) 45 c) "john" d) "peter" 14. Suppose $d = \{\text{``john'':}40, \text{``peter'':}45\}$, to delete the entry for ``john'' what command do we use a) d.delete("john":40) b) d.delete("john") d) del d("john":40) c) del d["john"]. 15. Suppose d = {"john":40, "peter":45}. To obtain the number of entries in dictionary which command do we use? a) d.size() b) len(d) c) size(d) d) d.len() 16. What will be the output? $d = {"john":40, "peter":45}$ print(list(d.keys())) a) ["john", "peter"]. b) ["john":40, "peter":45]. c) ("john", "peter") d) ("john":40, "peter":45) 17. Suppose $d = \{\text{"john":}40, \text{"peter":}45\}$, what happens when we try to retrieve a value using the expression d["susan"]? a) Since "susan" is not a value in the set, Python raises a KeyError exception b) It is executed fine and no exception is raised, and it returns None c) Since "susan" is not a key in the set, Python raises a KeyError exception d) Since "susan" is not a key in the set. Python raises a syntax error 18. Which of these about a dictionary is false? The values of a dictionary can be accessed using keys a) The keys of a dictionary can be accessed using values b) Dictionaries aren't ordered c) d) Dictionaries are mutable 19. Which of the following is not a declaration of the dictionary? {1: 'A', 2: 'B'} b) dict([[1,"A"],[2,"B"]]) a) {1,"A",2"B"} c) d) { } What is the output of the following code? 20. a={1:"A",2:"B",3:"C"} fori,j in a.items(): print(i,j,end=" ") a) 1 A 2 B 3 C b) 123 c) ABC d) 1:"A" 2:"B" 3:"C" What is the output of the following piece of code? 21. a={1:"A",2:"B",3:"C"} print(a.get(1,4))a) 1 b) A c) 4 d) Invalid syntax for get method 22. What is the output of the following code? a={1:"A",2:"B",3:"C"} print(a.get(5,4)) Error, invalid syntax a) b) А d) c) 5 4 What is the output of the following code? 23. a={1:"A",2:"B",3:"C"} b={4:"D",5:"E"} a.update(b) print(a) a) $\{1: A', 2: B', 3: C'\}$

b) Method update() doesn't exist for dictionaries

c) {1: 'A', 2: 'B', 3: 'C', 4: 'D', 5: 'E'}

d) $\{4: 'D', 5: 'E'\}$

What is the output of the following code? 24. a={1:"A",2:"B",3:"C"} b=a.copy() b[2]="D" print(a) Error, copy() method doesn't exist for dictionaries a) {1: 'A', 2: 'B', 3: 'C'} b) {1: 'A', 2: 'D', 3: 'C'} c) "None" is printed d) What is the output of the following code? 25. a={1:"A",2:"B",3:"C"} a.clear() print(a) a) None b) { None:None, None:None, None:None} {1:None, 2:None, 3:None} c) d) { } 26. What will be the output? numberGames = {} numberGames[(1,2,4)] = 8numberGames[(4,2,1)] = 10numberGames[(1,2)] = 12sum = 0for k in numberGames: sum += numberGames[k]print l(en(numberGames) + sum) a. 30 b. 24 c. 33 27. What will be the output? numberGames = {} numberGames[(1,2,4)] = 8 numberGames[(4,2,1)] = 10numberGames[(1,2)] = 12sum = 0for k in numberGames: sum += numberGames[k]print (len(numberGames) + sum) b. 10, 20, 24 a. 11, 20, 30 c. 11, 21, 33 d. 10, 21, 12 28. Which of the following is a Python tuple? a. [1, 2, 3] b. (1, 2, 3) c. $\{1, 2, 3\}$ d. {} 29. Suppose t = (1, 2, 4, 3), which of the following is incorrect? a. print(t[3]) b. t[3] = 45c. print(max(t)) d. print(len(t)) 30. What will be the output? >>t=(1,2,4,3)>>>t[1:-1] a. (1, 2) b. (1, 2, 4) c. (2, 4) d.(2, 4, 3)

d. 12

31. What will be the output?

>>>t = (1, 2)

- >>>2 * t
- a. (1, 2, 1, 2)b. [1, 2, 1, 2]c. (1, 1, 2, 2)d. [1, 1, 2, 2]

31. Consider the following code and write the answers:

def calculate(a, b):

return a * b

mpy = calculate(x, y) print(mpy)

KEYWORD USED TO DEFINE THE FUNCTION	DEF KEYWORD
NAME OF THE FUNCTION	calculate
ACTUAL PARAMETERS / ARGUMENTS	x,y
FORMAL PARAMETERS / PARAMETERS	a,b
IS IT A VOID FUNCTION?	NO
HOW MANY VALUES ARE RETURNED?	only one value in the form of tuple

32. Consider the following code and write the answers:

def display(name):
 print("Hello" + name + "How are you?") a =
 display("Samy")
 print(a)

NAME OF THE FUNCTION	display
FORMAL PARAMETER	name
ACTUAL PARAMETER	Samy
IS IT A VOID FUNCTION?	YES
WHAT WILL BE THE OUTPUT?	Hello Samy How are you? NONE

33. What is the difference between the following codes? How many values are returned from the function?

$\frac{Program 1}{def}$ sum(a, b, c):	OUTPUT (4,
return a + 2, b - 5, c * 3	5, 36)
S = sum(2, 10, 12)	ONLY ONE VALUE IS OBTAINED
print(S)	IN THE FORM OF TUPLE
$\frac{Program 2}{sum(a, b, c):}$ return a + 2, b - 5, c * 3 S1, S2, S3 = sum(2, 10, 12) print(S1, S2, S3)	OUTPUT 4 5 36 THREE DIFFERENT INDEPENDENT ASSIGNED TO 3 DIFFERENT VARIABLES ARE OBTAINED

34. What will be the output? Explain the execution of the program.

PROGRAM 1 def abc(): print(a) a = 10 print(a) abc() print(a)	PROGRAM 2 def abc(): a = 5 print(a) a= 10 print(a) abc() rint(a)	PROGRAM 3 def abc(): global a a= 5 print(a) a = 10 print(a) abc() print(a)	PROGRAM 4 defabc():
OUTPUT	OUTPUT	OUTPUT	OUTPUT
10	10	10	10
10	5	5	SYNTAX
10	10	5	ERROR

35.Consider the following function header and identify the correct statement:

def abc(a =1, b=2, c) def abc(a = 1, b, c = 3) **def abc(a = 1, b = 2, c = 3) (CORRECT OPTION)** def abc(a = 1, b, c)

36. Find the output of the following code:

def call(n1 = 2, n2 = 4): n1 = n1 * n2 n2 += 2print(n1, n2) call() call(5, 10) call(10)

Topic – Computer Networking

1. Identify and classify the following as LAN, MAN, or WAN:

- a) A school's computer lab b) A city-wide cable internet service
- c) A multinational company's head offices across the globe
- d) A network inside your school computer lab.
- e) A network connecting branches of a company across different cities.
- f) A network connecting computers within a city's university campuses.
- 2. Write the functions of the following networking devices:
- a) Switch b) Router c) Hub d) Modem e) Access Point
 3. Draw and label a Star topology and a Bus topology. Explain where each is used and its advantages/disadvantages.

4. Identify the Topology

Look at the given diagrams or descriptions (you can draw the following as simple sketches):

a) A central hub connects all computers.

- b) Each computer is connected to two other computers in a circular fashion.
- c) All computers are connected to every other computer.

5. Expand the following terms and write their functions

a) HTTP b) FTP c) IP d) DNS

6. Match the following network devices with their functions

Device	Function
Router	Connects two different networks
Switch	Filters and forwards packets based on MAC
Repeater	Boosts the signal in a network
Modem	Converts digital signals to analog and vice versa

7. Fill in the blanks:

- a) _____ is the protocol used to transfer files between computers on the internet.
- b) _____ topology is easy to install and manage but depends heavily on the central device.
- c) ____ IP addresses are used within private networks.
- d) DNS stands for ____.

8. MyPlace University is setting up its academic blocks at Naya Raipur and is planning to set up a network. The institute has 3 academic blocks and one Human Resource Center as shown in the diagram:

Business	Technology
Block	Block
Law	HR
Block	Center

Center to Center distances between various blocks		No of computers install at various location
LAW Block to BUSINESS Block	40 m	
LAW Block to TECHNOLOGY Block	80 m	LAW Block 15
LAW Block to HR Block	105 m	Technology Block 140
BUSINESS Block to Technology Block	30 m	HR Block 80
BUSINESS Block to HR Block	35 m	BUSINESS Block 25
Technology Block to HR Block	15 m	

a) Suggest the most suitable place (i.e., Block/Center) to install the server of this University with a suitable reason.

b) Suggest cable layout for the MyPlace University.

c) Which device will you suggest to be placed/installed in each of these blocks/centers to efficiently connect

all the computers within these blocks/centers.

d) Suggest the placement of a Repeater in the network with justification.

e) The university is planning to connect its admission office in Delhi, which is more than 300 km from university. Which type of network out of LAN, MAN, or WAN will be formed? Justify your answer.

9. Granuda Consultants are setting up a secured network for their office campus at Faridabad for their day office and web-based activities. They are planning to have connectivity between 3 buildings and the head office situated in Kolkata. Answer the questions (i) to (iv) after going through the building positions in the campus and other details, which are given below:

Head Office Kolkata	Building Green	Faridabad Campus	
	Building Blue	Building Red	
Distance between various buildings		Number of computers ins	stall at various location
Green Building to Red Building	120 m	Head Office	10
Green Building to Blue Building	50 m	Building Green	150
Blue Building to Red Building	65 m	Building Blue	51
Faridabad to Head Office	1460 kms	Building Red	25

- a) Suggest the cable layout(s) of connections between the buildings.
- b) Suggest the most suitable place to house the server of this organization with a suitable reason.
- c) Suggest the placement of the following devices with justification: i) Switch ii)Repeater
- d) The organization is planning to provide a high speed link with its head office situated in the
- KOLKATA using a wired connection. Which of the following cables will be most suitable for this job?
 - i) Optical Fiber ii) Co-axial Cable iii) Ethernet Cable
- e) Suggest the role of firewall in a network.

f) Company is planning to get its website designed which will allow employees to see their all details after registering themselves on its server. Out of the static or dynamic, which type of website will you suggest.

10. Galaxy Provider Ltd. is planning to connect its office in Texas, USA with its branch at Mumbai. The Mumbai branch has 3 Offices in three blocks located at some distance from each other for different operations-ADMIN, SALES and ACCOUNTS. As a network consultant, you have to suggest the best network related solutions for the issues/problems raised in (a) to (d), keeping in mind the distances between various locations and other given parameters.

Layout of the Offices in the Mumbai branch:



- a) It is observed that there is a huge data loss during the process of data transfer from one block to another. Suggest the most appropriate networking device out of the following, which needs to be placed along the path of the wire connecting one block office with another to refresh the signal and forward it ahead.
- b) Which hardware networking device out of the following, will you suggest to connect all the computers

within each block?

- c) Which service/protocol out of the following will be most helpful to conduct live interactions of employees from Mumbai Branch and their counterparts in Texas?
- d) Draw the cable layout (block to block) to efficiently connect the three offices of the Mumbai branch. **Submission Guidelines:**
 - Submit the assignment handwritten
 - Diagrams must be neat and labeled.
 - Use clear headings and bullet points.

6.BIOLOGY

Section-A

- Q1. What do the microsporangia develop further into as the anthermature?
- Q2. How is an ovule technically referred to?
- Q3. What are the mitotic division in the functional megaspore nucleus called free nuclear divisions?
- Q4. In a flower, the megasporemother cell of anovule forms megaspores by mitosis. If one of these megaspores develops into the embryo sac, what will be The ploidy. of its (eight) nuclei?
- Q 5. Name to freshwater angiosperms that show true hydrophily.
- Q6. What is the advantages of selecting dioecious plantfor carrying out artificial hybridization or breeding experiments?
- Q 7. Name the hormone that maintains the function of male accessoryducts and glands.
- Q 8. In which phase of menstrual cycle is corpus luteum formed.
- Q9, Name, any two hormones found in the blood of pregnant, female only.
- Q 10. What are stem cells in human embryo?
- Q11. When does oogenesis is start in human?Name three hormones and their sources linked with oogenesis. How do they influence the process of you oogenesis? Explain.
- Q 12. What is the old name of RCH programmes? When was it initiated in India?
- Q 13. Why are spermicidal creams used along with a female barrier like the diaphragms?
- Q 14. What term is given to the method of a ART in which a sperm is directly injected into the ovum?
- Q15.Namethe most dangerous among the veneral diseases.
- Q 16. Expand the following.
- ICSI, GIFT, ZIFT, IUT, IUI, IVF
- Q17.(a) Explain the barrier methods of birth control.
 - (b) How is GIFT different from ZIFT?
- Q18. Differentiate between Autogamy, Geitonogamy and Xenogamy.

Differentiate between:

Primary follicles and Secondary follicle, Secondaryfollicle and Tertiary follicle,Follicular face and Luteal phase, Menarche and Menopause, Morula and Blastocyst,Tropoblast and Inner cell mass, Spermatogenesisand oogenesis.

Section B

Q1. Solve all the questions of Ncert exercise of chapter 2, 3 and 4 in your fair notebook.

- Q 2. Write 5 question with answers of case-basedstudies of chapter 2, 3 & 4 in your fair notebook.
- Q3. Practice all the labeled diagrams of chapter 1, 2&43in your fair notebook.
- Q4. Write the given practicals in your Practical file:
- A. Prepare a temporary mount to observe Pollen germination
- B. Study the plant population density by a quadratmethod.
- C. Study the plant population frequency by Quadrant method.
- D. Prepare the temporary mount of onion root tip to study mitosis.
- E. Isolation of DNA from available plant material such as spinach, green pea seed, papaya, etc.

For Spotting.

Study and observation of the following:

A. Flower adapted to pollinate session by different agencies(wind, insects birds).

B. Pollen germination on stigma through a permanent slide or scanning electronmicroscope.

C. Identification of stages of gamete development. i.e. T.S. of testis and T.S. of ovary, through permanent slides, from (grasshopper/mice).

- D. Meiosis in onion bud cells or grasshopper. testis through permanent Slides.
- E. TS of blastula through permanent slide(mammalian)
- F. Control pollination emasculation, bagging and tagging.

Section - C

Q5)Prepare Science model on given topic:

Theme:Science & Technology for Society

Sub Themes:

(i) Health (Biology students)

(ii) Life(Life style for environment) Biology Students)

- (iii) Agriculture (Biology students)
- (iv) Communication and transportation (CS students)
- (v) Computational Thinking (CS students)

Instructions :

Model should be working based on scientific principles.

Strictly not advise to use thermocol.

7. ECONOMICS

MACRO ECONOMICS

Q1. Define consumption goods.

- Q2. Foreign embassies in India are a part of India's: (Choose the correct alternative)
- (a) Economic Territory (b) Geographical territory
- (c) Both (a) and (b) (d) None of the above
- Q3. Supply of money refers to quantity of money _____ (Choose the correct alternative)
- (a) As on 31st March (b) During any specified period of time
- (c) As on any point of time (d) During a fiscal year
- Q4. Demand deposits include _____ (Choose the correct alternative)
- (a) Saving account deposits and fixed deposits
- (b) Saving account deposits and current account deposits
- (c) Current account deposits and fixed deposits
- (d) All types of deposits
- Q5. Market Price and factor cost will be equal when there is:
- (a) No direct tax (b) No Indirect tax
- (c) No Subsidy (d) No Indirect tax and No subsidy
- Q6. State, giving reasons, whether the following statements are true or false: (3)
 - (a) Currency created by the Central Bank is called bank money.
 - (b) Higher the Legal Reserve Ratio (LRR), greater would be the money creation in theeconomy.
 - (c) Money supply is a stock variable
- Q7. Giving reasons classify the following into stocks and flows:
 - (a) Wealth (b) Savings (c) Gross Domestic Product

Q8. Discuss briefly, the circular flow of income in a two sector economy with the help of a suitable diagram.

Q9. How will you treat the following in the calculation of Gross Domestic Product of India?

Give reasons for your answer.

- (a) Profits earned by a branch of foreign bank in India
- (b) Salaries of Indian Employees working in embassy of J

Calculate (a) Net Value added at factor cost and (b) Value of output at market price

40

- from the following data.(Rs. in arab)
- i. Subsidies
- ii. Intermediate costs 200
- iii. Compensation of employees 400

iv. Depreciation	50
v. Royalty	5
vi. Interest	25
vii. Indirect Taxes	100
viii. Rent	10
ix. Profits	60
x. Net Change in stocks	20
: xii. Corporate Profit Tax	20
xiii. Indirect Taxes	50

Q15. State giving reasons whether the following will be included in national income: (i) Growing vegetables in a kitchen garden of the house/services rendered by family members to each other.

(ii) Production of tobacco products, liquor, etc.

(iii) Harmful effects of air pollution caused by factories or vehicle

II. PROJECT

Indian

Economy. This projectis final CB SE project

The expectations of the project work are that:

learners will complete only ONE project in each academic session project should be of 3,500-4,000 words (excluding diagrams & graph hand-written

it will be an independent, self-directed piece of study.

Topics According to roll no.

Topics.	Roll no.
1. Government budget	1,3
2. Balance of payment	2,4,6
3. National income .	5,7,9
4. Money and banking	8,10,12
5. Determination of income and employment	11,13,15
6. Foreign exchange	14,16,18
7. Indian economy on the eve of independence	17,19,21
8. Indian economy in 1950-1990	20,22,24
9. Liberalisation privatisation and globalisation	23,25,27
10. Human capital formation	26,28,30
11. Rural development	29,31,33
12. Employment growth. informalisation and othe	r issue 32,34,36
13. Environment and sustainable development	35,37,39

14. Comparative development experience of India and its neighbouring countries. 38,40

8.Business Studies

1. Do given case studies in separate notebook

Chapter 1

Mr. X, the director of a company many times get involved in activities like procurement of raw material, production and dispatch of goods, employee discipline etc.

- (a) Name the level of management Mr. X belongs to.
- (b) Do you think he must be involved in such activities? Give reason.
- (c) Give two important functions, Mr. X must perform?
- Q2. Management of Global Ltd. fulfills all its objectives and the organization is able to work effectively and efficiently. It is using environment friendly methods of production and disposes off the wastematerial by either recycling it or using the same for landfill in such a manner that aquatic life is notdisturbed. It also provides employment opportunities to the disadvantaged sections of the society.
 - (a) Identify the objective of management which the company is fulfilling by doing such activities.
 - (b) State any other 2 objectives which they should fulfill?

(c) Which two values is the company achieving by their activities?

- Q3. In ABC Ltd., the purchase department purchased 20 tonnes of raw material for production department. Although only 15 tones was needed by production department. Due to this, goods were overproduced and were not accepted by sales department. As a result, some goods remained unsold. Which aspect of management is lacking among various departments. Give any 2 importance of the above asked element.
- Q4. The marketing manager of Alpha Ltd. fixed the target for all his sales executives and gave them all the possible authorities to achieve it. They were asked to submit to him their performance report at theend of the month. All of them did the same. On the receipt of report, the expected and actual results ofsales executives were compared, on this basis future course of action was decided. The sales Executivealso wrote in their report what the expectations of the customers from the company were. Majoritythem had written that they wanted the co. to cooperate in the construction of Dharmsala going on in thecity. The marketing manager placed this demand before the Board of Directors. This was happily accepted.
 - (a) Identify the functions of management described in above paragraph by quoting relevant lines.
 - (b) Which 2 values are given to society?
 - (c) Which objective is being highlighted here?
- Q5. Three groups of employees of Ganga Ltd. are working at different posts. The first group is responsible for survival and growth of organization. This group continuously keeps a watch over the business environment. With a view of coping with the changes going on in the business environmentthis group immediately discusses the change to be brought about in company's plan. The second groupis to explain the policies by superiors to the employees and developing the feeling of cooperation amongall the departments. The Third group is responsible for maintaining quality and safety standards and minimizing wastage.

(a) Identify the levels of management described in above paragraph by quoting relevant lines.

- Q6. Grey Ltd. is facing a lot of problems these days. The Co's margin is declining day by day. The Production manager is blaming marketing department whereas marketing is blaming productiondepartment for not maintaining the quality. Finance department is blaming the both.
 - (a) What aspect of management do you think is lacking in the above situation.
 - (b) Give the importance of that concept.
- Q7. Rahul is planning to launch a new line of products in 2 years time. However at present he has reduced its prices by 10% to retain its existing customers. What are the 2 main objectives he is focusing at? Give reason.
- Q8. After every three months, Mr. Ramakant offers new schemes to its distributors. He tries to bring in changes keeping in mind the needs of a customer and offers from his competitors. This gives him anedge over his competitors. Identify the characteristic of management in above situation? Explain itbriefly. [Hint: Dynamic].
- Q9. Toys & toys Ltd. received a new order of 10,000 toys to be delivered in15 days, failing which the tract will be null and avoid. To complete this, Mr. Pankaj, production manager planned to outsource the production and deliver the order on time. The outsourcing of production results in increase in cost by 30%. Do you think the production manager performed his duties effectively and efficiently? Give reasons.
- Q10. Gemini Circus is organizing shows internationally for the last thirty years. Their shows have been successful across the globe. Of late, their shows are not as popular as they were in the past. Afteranalyzing, they are thinking of bringing necessary changes in their shows to gain popularity.
 - (a) Identify which characteristics of management is reflected in above situation? Give reasons.
 - (b) Which function of management is indicated here?
- Q11. Ford Motors aims to produce and sell 1,50,000 cars in 2014. To achieve this target the production department strives for timely production and sales department takes all possible steps to sell them. Dueto combined efforts of all the departments, company can achieve its target.
 - (a) Which importance of management is highlighted here? Explain any two other significances of management.
 - (b) Which other aspect of management helps in achieving goal in Ford Motors.

Chapter 3

Question No. 1 to 6 are based on the given text. Read the text carefully and answer the questions: Mohan works in a bulb manufacturing company. Each bulb that is manufactured is of standard size and quality. Further, if there is any unrequited type of bulb manufactured then its production is stopped. Last month when the company came to know that 10-watt bulbs were no more liked by customers, their production was stopped. He works in the purchasing department. His job is to purchase the filaments required to make bulbs. This time when he purchases the filament he gets the instruction from the seller that some special care needs to be taken in the first hour of fixing the filaments inside the bulb. Mohan knows this information should be given immediately to the production department before the assembling process starts. However, he finds that his company's policies only allow him to give the message to his immediate boss who will further pass this message to his boss. The passing of thismessage will continue until it reaches the desired person in the production department.

- 1. The principle of management discussed in the above para is given by _____
 - a. Henry Fayol b. None of these c. Sun Tzu d. F.W. Taylor
- 2. Which management function is discussed in the above para?
 - a. Controlling b. Organising c. Staffing d. Planning
- 3. Which technique of management is followed here?
- a. None of these b. Method study c. Fatigue study d. Standardization and simplification **4. Name the principle of management followed here by the company?**
- a. Scalar chain b. Departmentalization c. None of these d. Division of Work **5. Which option is now available to Mohan since the company is not allowing him to**
 - interact with the concerned worker in the production department?
- a. All of these b. Organization c. Authority and Responsibility d. Gang-plank 6. Which principle of management is followed by the company by creating a separate department?
- department?a. Departmentalizationb. Scalar Chainc. Method studyd. Division of work7. Principles of management equip the managers to foresee the cause and effect relationships of
their decisions and actions so that the wastages associated with a trial and error approach can be
overcome.Identify the point of significance of principles of management highlighted here.
a. Scientific decisionsb.Fulfilling social responsibilityc. Optimum utilisation of resources
d.Meeting environment
- 8. The violation of which principle of management results in the disorderly flow of information?a. Authority and Responsibilityb. Stability of employees c. Scalar Chain d.Unity of Command
- 9. In which year Taylor became an engineer from a worker? a. 1903 b.1878 c. 1901 d.1884
- Assertion (A): One of the major contributions of FW Taylor is the 'Piece Rate System'. Reason (R): He has also published various books and research papers on Industrial Organisation and Management.
 - a. Both A and R are true and R is the correct explanation of A. c. A is true but R is false.
 - b.Both A and R are true but R is not the correct explanation of A. d.A is false but R is true.
- 11. Assertion (A): Unity of Command means One unit on one Plan.
- Reason (R): The Principle of Unity of Command reduces the chances of ego clashes among superiors and leads to more effective working.
 - a. Both A and R are true and R is the correct explanation of A.b.Both A and R are true but R is not the correct explanation of A.c. A is true but R is false.d.A is false but R is true.
- 12. State True or False:
 - i. Fayol is known as the father of scientific management. a. True b.False
 - ii. Functional foremanship propounded by Taylor is based on principle of division of work.
 - a. True b.False

13. Fill in the blanks:

a. _____ study seeks to eliminate wasteful and unnecessary movements so that it takes less time to complete a job efficiently.

- b. The objective of suggested by Taylor is to increase the efficiency of workers by selecting standard tools and equipment and maintaining standard working conditions.
- 14. Match the following:
 - (a) Taylor's principles are concerned with
 - (b) Taylor laid great emphasis on
 - (c) Fayol's principles are concerned with
- (i) Function of managers
- (ii) Management efficiency (iii) Worker's efficiency
- (d) Fayol laid great emphasis on
 - (iv) Standardisation of work
- 15. Ajay kumar is a sales manager in a Soap company. He is given the responsibility of meeting asales target of 1500 detergents in a month. To achieve this target, Ajay kumar needs 30 sales executives. However, he has just 18 executives under him and he is not given the authority to employ 12 more executives. Ajay Kumar is able to sell only 900 Soap only. The General Manager of the company blames Ajay kumar for not achieving the target results. Do you think Ajay kumar can be blamed for this?
- 16. Which principle suggests that the interests of an organisation should take priority over the interests of any one individual employee?

Ramesh had recently completed his graduation from a well-known institute in Kolkata. He was too much interested in Graphic Designing and Printing therefore he pursued a side course along with his graduation. Now, he set up a Printing Industry Ramesh Printers Ltd in a rural area where a printing facility was not available. Its main business was to print visiting cards and advertisement banners. One negative factor that is affecting this industry to some extent is that the preferences of customers are changing. They are shifting from Traditional Marketing to Digital Marketing as most of the businesses have become online. It has also been noticed that in Printing Industry only those companies are making huge profits that have adopted modern technology. Recently, the government has made such changes in tax policy that will have a positive impact on the Printing Industry. The Managing Director of Ramesh Printing Ltd. made a thorough study of the business environment and accordingly, he made necessary changes in the working of their business.

- 1. One of the major step taken was to start a website to take orders online. Identify the dimension of Business Environment highlighted here?
 - a. Economic Environment b. Legal Environment
 - c. Political Environment d. Technological Environment
- 2. He made necessary changes in the working of their business to meet the current circumstances. Which importance of business environment scanning has been discussed here?
 - a. Tapping and Assembling Resourcesb. Growth and expansion
 - c. Adaption to changes d. Getting first mover advantage
- 3. One negative factor that is affecting this industry to some extent is that the preferences of customers are changing. Which dimension of Business Environment is highlighted here?
 - a. Economic Environment b. Legal Environment
 - c. Political Environment d. Social Environment
- 4. Recently, the government has made such changes in tax policy that will have a positive impact on the Printing Industry. Dimension of Business Environment is referred to here? a. Legal Environment b. Economic Environment
 - c. Political Environmentd. Technological Environment
- 5. It has also been noticed that in Printing Industry only those companies are making huge profits that have adopted modern technology. Identify the dimension of Business Environment highlighted here?
- a. Technological b. Legal Environment c. Economic Environment d. Political Environment 6. Which value is highlighted here in this case?
- a. Rural Development b. Sympathy towards others c. Gender Equality d. Saving Environment 7. Advance understanding of business environment will help in:
- a. Developing new principles of management b.Nothing c. Privatisation d.Planning and Policy Formulation
- is concerned with the withdrawal of state from an industry or sector, partially or fully. 8. b.Modernisation c. Privatisation d.Globalisation a. Liberalisation

9 According to a recent survey 90% students have shifted 4G and 5G phones from 2G and 3G
phones It is an example of environment
a.social b. economic c. political d.technological
10. Assertion (A): Social Environment has a great impact on business in the long run.
Reason (R): Increase in the sale of sweets during festivals is due to the change in Social
Environment.
a. Both A and R are true and R is the correct explanation of A. c. A is true but R is false.
b.Both A and R are true but R is not the correct explanation of A. d.A is false but R is true.
11. Assertion (A): Specific Forces affect the business enterprises only indirectly.
Reason (R): Suppliers, Investors, and Customers are examples of Specific Forces.
a. Both A and R are true and R is the correct explanation of A. c. A is true but R is false.
b.Both A and R are true but R is not the correct explanation of A. d.A is false but R is true.
12. State True or False:
i. Disinvestment means investment in different sectors. a. True b.False
ii. After the Introduction of N.E.P companies become market-oriented. a. True b.False
13. Fill in the blanks:
a. The environment is a phenomenon that is relatively easier to understand in parts but difficult
to grasp in its totality.
b. Colour television has wiped out the market for black and white television. It is an
example of
15. Which policy of Indian Government has moved India towards globalisation?
16. One of the strong objections against the increasing number of automobiles is that it has resulted in the
rising level of pollution. Further, due to heavy cost of import of fuel, prices of petroleum products are
increasing alarmingly. The Government of India has proposed the automobile industry to produce fuel-
efficient vehicles. Which dimension of business environment is being referred to in the given
situation?
1/. As a result of the decision by Britain to exit to European Union the new trade agreements willcome into
Torce from the EU as it accounts for 35 - 40% of auto component exports from India. I ata Motors-owned
Britain's largest carmaker Jaguar Land Rover (JLR) has been in Britain forthree decades and makes
4, / 5,000 cars a year in the country of which most of them are exported inside the European Union and
veer 2020. In the context of the above case:
year 2020. In the context of the above case.
b. Name any two related dimensions of the business environment
18 I ist some important factors that influence the working of a business enterprises?
19. Recently the Government of India has announced the repealing of various outdated statutory
legislations. Identify the dimension of business environment and explain it briefly
20. What is meant by Business environment? State any three points of its importance.
Prepare the project work on the topic allotted-
Project A : MARKETING MANAGEMENT
Project B :BUSINESS ENVIRONMENT
Project C :- STOCK EXCHANGE
Project D :- PRINCIPLES OF MANAGEMENT
Guidelines to be followed:-
Project A: MARKETING MANAGEMENT
(A.) On the basis of the work done by the students the project report should include the following:
1. Why have they selected this product/service?
2. Find out '5' competitive brands that exist in the market.
3. What permission and licenses would be required to make the product?
4. What are your competitors Unique Selling Proposition [U.S.P.]?
5. Does your product have any range give details?
6. What is the name of your product?
18
10

- 7. Enlist its features.
- 8. Draw the 'Label' of your product.
- 9. Draw a logo for your product.
- 10. Draft a tag line.
- 11. What is the selling price of your competitor's product?
 - (i) Selling price to consumer
 - (ii) Selling price to retailer
 - (iii) Selling price to wholesaler
 - What is the profit margin in percentage to the a. Manufacturer. b. Wholesaler. c. Retailer.
- 12. How will your product be packed?
- 13. Which channel of distribution are you going to use? Give reasons for selection?
- 14. Decisions related to warehousing, state reasons.
- 15. 15. What is going to be your selling price?
 - (i) To consumer (ii) To retailer (iii) To wholesaler
- 16. List 5 ways of promoting your product.
- 17. Any schemes for
 - (i) The wholesaler (ii) The retailer (iii) The consumer 18. What is going to be your 'U.S.P?
- 19. What means of transport you will use and why?
- 20. Draft a social message for your label.
- 21. What cost effective techniques will you follow for your product.
- 22. What cost effective techniques will you follow for your promotion plan.

At this stage the students will realize the importance of the concept of marketing mix and the necessary decision regarding the four P's of marketing.

A.PRODUCT B. PLACE C. PRICE D. PROMOTION

Project B: BUSINESS ENVIRONMENT

1. Changes witnessed over the last few years on mode of packaging and its economic impact. It may include the following changes:

a) The changes in transportation of fruits and vegetables such as cardboard crates being used in place of wooden crates, etc. Reasons for the above changes.

b) Milk being supplied in glass bottles, later in plastic bags and now in tetra pack and through vending machines.

- c) Plastic furniture [doors and stools] gaining preference over wooden furniture.
- d) The origin of cardboard and the various stages of changes and growth.
- e) Brown paper bags packing to recycled paper bags to plastic bags and cloth bags.

f) Re use of packaging [bottles, jars and tins] to attract customers for their products.

- g) The concept of pyramid packaging for milk.
- h) Cost being borne by the consumer/manufacturer.
- i) Packaging used as means of advertisements.
- 2. The reasons behind changes in the following:

Coca – Cola and Fanta in the seventies to Thums up and Campa Cola in the eighties to Pepsi and Coke in nineties. The teacher may guide the students to the times when India sold Coca Cola and Fanta were being manufactured in India by the foreign companies. The students may be asked to enquire about

- a. Reasons of stopping the manufacturing of the above mentioned drinks in India THEN.
- b. The introduction of Thums up and Campa cola range.
- c. Re entry of Coke and introduction of Pepsi in the Indian market.
- d. Factors responsible for the change.
- e. Other linkages with the above.
- f. Leading brands and the company having the highest market share.
- g. Different local brands venturing in the Indian market.
- h. The rating of the above brands in the market.
- i. The survival and reasons of failure in competition with the international brands.
- j. Other observations made by the students

- 3. Changing role of the women in the past 25 years relating to joint families, nuclear families, women as a bread earner of the family, changes in the requirement trend of mixers, washing machines, microwave and standard of living.
- 4. The changes in the pattern of import and export of different Products.
- 5. The trend in the changing interest rates and their effect on savings.
- 6. A study on child labour laws, its implementation and consequences.
- 7. The state of 'anti plastic campaign,' the law, its effects and implementation.
- 8. The laws of mining /setting up of industries, rules and regulations, licences required for running that business.
- 9. Social factors affecting acceptance and rejection of an identified product. (Dish washer, Atta maker, etc.)
- 10. What has the effect been on the types of goods and services? The students can take examples like:
 - a. Washing machines, micro waves, mixers and grinder.
 - b. Need for crèche, day care centre for young and old.
 - c. Ready to eat food, eating food outside, and tiffin centres.
- 11. Change in the man-machine ratio with technological advances resulting in change of cost structure.
- 12. Effect of changes in technological environment on the behaviour of employee.

Project C :- STOCK EXCHANGE

Project D: PRINCIPLES OF MANAGEMENT : The students are required to visit any one of the following:

- 1. A departmental store.
- 2. An Industrial unit.
- 3. A fast food outlet.
- 4. Any other organisation approved by the teacher.

They are required to observe the application of the general Principles of management advocated by Fayol. Fayol's principles are:

- 1. Division of work
- 2. Unity of command.
- 3. Unity of direction.
- 4. Scalar chain
- 5. Espirit de corps
- 6. Fair remuneration to all
- 7. . Order
- 8. Equity
- 9. Discipline
- 10. Subordination of individual interest to general interest.
- 11. Initiative.
- 12. Centralisation and decentralisation.
- 13. Stability of tenure. OR

They may enquire into the application of scientific management techniques by F.W. Taylor in the unit visited.

Scientific techniques of management.

1. Functional foremanship. 2. Standardization and simplification of work. 3. Method study. 4.

Motion Study. 5. Time Study. 6. Fatigue Study 7. Differential piece rate plan.

(B.) PRESENTATION AND SUBMISSION OF PROJECT REPORT OF PROJECT A ,B AND C

The following essentials are required to be fulfilled for its preparation and submission.

- 1. The total length of the project will be of 25 to 30 pages.
- 2. The project should be handwritten.
- 3. The project should be presented in a neat folder.

4. The project report should be developed in the following sequenceb) The cover page should include the title

of the Project, student information, school and year.

c) List of contents.

d) Acknowledgements and preface (acknowledging the institution, the places visited and the persons who have helped).

- e) Introduction.
- f) Topic with suitable heading.
- g) Planning and activities done during the project, if any.
- h) Observations and findings of the visit.
- i) Conclusions (summarised suggestions or findings, future scope of study).
- j) Photographs (if any).
- k) Appendix.
- l) Teacher's observation.
- m) Signature of the teacher.

Instructions:

- 1. The work has to be done on A4 size interleaf sheets.
- 2. It should be written in neat handwriting.
- 3. The file should not be spiraled.
- 4. The project should be hand written and no print-outs to be used for content writing

9. ACCOUNTANCY

Do in separate note book Accounting for Partnership Firm: Chapter 1. Fundamentals of partnership firm. Theory aspects of the chapter. Meaning and contentment of partnership deed. Assumptions of partnership deedRights and duties of partners in a firm. Minimum and Maximum limit of numbers of partners in a partnership firm. Numerical Do question no. 1 to 7 (page no. 1.93) Question no. 24 to 27 (page no. 1.97) Question no. 28 to 36 (page no1. 98) Question no. 52, 54, 58,59, (page no. 1.102) Do all unsolved question of past adjustment and guarantee of minimum profit to a partner.

Chapter 2

Nature and valuation of Goodwill. Theory aspects: What is goodwill Nature and methods of valuation of goodwill Factors affecting goodwill Need for valuation of goodwillAs 26 of ICAI. Numerical aspect. Do all the unsolved question (page no. 2.31)

10. INFORMATICS PRACTICES

DO FOLLOWING QUESTIONS IN NOTE BOOK...

Networking

- 1. What is the use of Repeater in a network?
- 2. State two advantages of networking computers instead of having standalone computers.
- 3. Write one advantage each of star and bus topology used in networking.
- 4. Mr. Chandervardhan is not able to identify the Domain Name in the given URL. Identify and write it for him.http://www.cbsenic.in/aboutus.htm
- 5. Name any two most popularly used search engines.
- 6. Given below two addresses
- (i) 59.177.134.72
- (ii) http://www.ccc.nic.in/welcome.htm

Identify which one of the above is an IP address and which one is a URL?

7. Mr. Taufiq Ahmad wants to prevent unauthorised access to/from his company's local area network.

Write the name of system (software/hardware), which he should install.

8. What is a protocol? Which protocol is used to copy a file from/to a remotely located server?
 9. india Skills Hub is a skill development community which has an aim to promote the standard of skills in the society. It is planning to set up its training centres in multiple towns and villages Pan India with its head offices in the nearest cities. They have created a model of their network with a city ABC Nagar, a town (UVW town) and 3 villages.

As a network consultant, you have to suggest the best network related solutions for their issues/ problems raised in (i) to (iv), keeping in mind the distances between various locations and other given parameters.



Shortest distances between various locations :

VILLAGE P TO UVW_TOWN	1.5 KM
VILLAGE Q TO UVW_TOWN	2.0 KM
VILLAGE R TO UVW_TOWN	1.0 KM
VILLAGE P TO VILLAGE Q	2.5 KM
VILLAGE P TO VILLAGE R	4.0 KM
VILLAGE Q TO VILLAGE R	2.3 KM
ABC Nagar Head Office to Cluster	28 KM
Number of computers installed	at various

locations are as follow :

UVW_TOWN	150
VILLAGE P	10
VILLAGE Q	15
VILLAGE R	20
ABC Nagar Head Office	5

Note:

– In Villagers, there are community centers, in which one room has been given as training entrer to this organization to install computers.

- The organization has got financial support from the government and top Multinational Organizations.

- 1. Suggest the most appropriate location of the SERVER in the Cluster (out of the 4 locations), to get the best and effective connectivity. Justify your answer.
- 2. Suggest the best wired medium and draw the cable layout (location to location) to efficiently connect various locations within the Cluster.
- 3. Which hardware device will you suggest to connect all the computers within each location of
- 4. Which service/protocol will be most helpful to conduct live interactions of Expersts from Head Office and peole at all locations of Cluster?

10. Granuda Consultants are setting up a secured network for their office campus at Faridabad for their day to day office and web based activities. They are planning to have connectivity between 3 building and the head office situated in Kolkata. Answer the questions (i) to (iv) after going through the building positions in the

campus and other details, which are given below:



Distances between various buildings:

Building "JAMUNA	"RAVI" «	to	Building	120 m
Building "GANGA"	"RAVI"	to	Building	50 m
Building "JAMUNA	"GANGA" "	to	Building	65 m
Faridabad	Campus to	o Hea	ad Office	1460 km

Number of Computers:

Building "RAVI"	25
Building "JAMUNA"	150
Building "GANGA"	51
Head Office	10

- 1. Suggest the most suitable place (i.e., block) to house the server of this organization. Also give a reason to justify your suggested location.
- 2. Suggest a cable layout of connections between the buildings inside the campus.
- 3. Suggest the placement of the following devices with justification:
 - o Repeater
 - o Switch
- I. Explain the following functions of SQL with the help of examples:
- 1. Name two case-manipulation functions in SQL.
- 2. What does the CONCAT() function do?
- 3. How does the LENGTH() function work?
- 4. Explain the TRIM() function .
- 5. What is the purpose of the SUBSTR() function?
- 6. Describe the INSTR() function.
- 7. Name two numeric functions in SQL.
- 8. What is the use of the ROUND() function?
- 9. Explain the MOD() function.
- 10. What does the POWER() function do?
- 11. How does the SQRT() function work?
- 12. Describe the ABS() function.
- 13. Name two date functions in SQL.
- 14. What does the CURDATE() function return?
- 15. How does the NOW() function work?
- 16. Explain the YEAR() function.
- 17. What is the use of the MONTH() function?
- 18. Describe the DAY() function.
- 19. What does the DATEDIFF() function do?

- 20. Name two aggregate functions in SQL.
- 21. What is the purpose of the SUM() function?
- 22. How does the COUNT() function work?
- 23. Explain the AVG() function.
- 24. What does the MAX() function do?
- 25. Describe the MIN() function.

II. Do given questions as directed:

1. observe the given table Teacher and give the output of questions (i) and (ii):

	0	<u> </u>	<u> </u>	
TEACHE	ER_CODE	TEACHER_NAME	DOJ	
T001		ANAND	2001-01-30	
T002		AMIT	2007-09-05	
T003		ANKIT	2007-09-20	
T004		BALBIR	2010-02-15	
T005		JASBIR	2011-01-20	
T006		KULBIR	2008-07-11	
(i)	SELECT T	EACHER_NAME,DOJ FRO	M TEACHER WHERE TE	ACHER_NAME LIKE %1%
(ii)	SELECT *	FROM TEACHER WHERE	DOJ LIKE '%-09-%';	

2.Write SQL queries for (i) to (iv) and find outputs for SQL queries(v) to (viii) which are based on tables:

101 Nirja Singh Bangalore 102 Rohan Gupta Chennai 103 Ali Reza Hyderabad 104 Rishabh Jain Chennai 105 Simran Kaur Chandigarh TABLE: TRANSACT T001 101 2500 Withdraw 2017-12-21 T002 103 3000 Deposit 2017-05-12 T004 103 1000 Deposit 2017-10-22 T005 102 12000 Deposit 2017-11-06 (i) To display details of all transactions of TYPE Withdraw from TRANSACT table (ii) To display ANO and AMOUNT of all Deposit and Withdrawals done in month of May' 2017 from table TRANSACT (iii) To display first date of transaction (DOT) from table TRANSACT for Account having ANO as 102 (iv) To display ANO, ANAME, AMOUNT and DOT of those persons from ACCOUNT and TRANSACT table who have done transaction less than or equal to 3000 (v) SELECT ANO, ANAME FROM ACCOUNT WHERE ADDRESS NOT IN ('CHENNAT, 'BANGALORE'); (vi) (vi) SELECT DISTINCT ANO FROM TRANSACT (wii)	ANO	ANAME		ADDRESS		1			
102 Rohan Gupta Chennai 103 Ali Reza Hyderabad 104 Rishabh Jain Chennai 105 Simran Kaur Chandigarh TABLE: TRANSACT TRNO ANO MOUNT TYPE DOT 1001 101 2500 Withdraw 2017-12-21 1002 103 3000 Deposit 2017-06-01 1003 102 2000 Withdraw 2017-05-12 1004 103 1000 Deposit 2017-10-22 1005 102 12000 Deposit 2017-11-06 (ii) To display ANO and AMOUNT of all Deposit and Withdrawals done in month of 'May' 2017 from table TRANSACT (iii) To display first date of transaction (DOT) from table TRANSACT for Account having ANO as 102 (iv) To display ANO, ANAME, AMOUNT and DOT of those persons from ACCOUNT and TRANSACT table who have done transaction less than or equal to 3000 (v) SELECT ANO, ANAME FROM ACCOUNT WHERE ADDRESS NOT IN ('CHENNAT, 'BANGALORE'); (vi) SELECT IDSTINCT ANO FROM TRANSACT Group By ANO HAVING COUNT(*) > 1	101	Nirja Singh	Nirja Singh		alore	1			
103 Ali Reza Hyderabad 104 Rishabh Jain Chennai 105 Simran Kaur Chandigarh TABLE: TRANSACT TABLE: TRANSACT TRNO ANO AMOUNT TYPE DOT 1001 101 2500 Withdraw 2017-12-21 1002 103 3000 Deposit 2017-06-01 1003 102 2000 Withdraw 2017-10-22 1005 102 12000 Deposit 2017-11-06 (i) To display details of all transactions of TYPE Withdraw from TRANSACT table (ii) (ii) To display ANO and AMOUNT of all Deposit and Withdrawals done in month of 'May' 2017 from table TRANSACT (iii) To display first date of transaction (DOT) from table TRANSACT for Account having ANO as 102 (iv) To display ANO, ANAME, AMOUNT and DOT of those persons from ACCOUNT and TRANSACT table who have done transaction less than or equal to 3000 (v) SELECT ANO, ANAME FROM ACCOUNT WHERE ADDRESS NOT IN ('CHENNAI', 'BANGALORE'); (vii) SELECT ANO, COUNT(*), MIN(AMOUNT) FROM TRANSACT (wiii) SELECT ANO, COUNT(*), MIN(AMOUNT) FROM TRANSACT	102	Rohan Gupta		Chen	nai	1			
104 Rishabh Jain Chennai 105 Simran Kaur Chandigarh TABLE: TRANSACT TRNO ANO AMOUNT TYPE DOT T001 101 2500 Withdraw 2017-12-21 T002 103 3000 Deposit 2017-06-01 T003 102 2000 Withdraw 2017-10-22 T004 103 1000 Deposit 2017-11-06 (i) To display details of all transactions of TYPE Withdraw from TRANSACT table (ii) To display ANO and AMOUNT of all Deposit and Withdrawals done in month of 'May' 2017 from table TRANSACT (iii) To display first date of transaction (DOT) from table TRANSACT for Account having ANO as 102 (iv) To display ANO, ANAME, AMOUNT and DOT of those persons from ACCOUNT and TRANSACT table who have done transaction less than or equal to 3000 (v) SELECT ANO, ANAME FROM ACCOUNT WHERE ADDRESS NOT IN ('CHENNAI', 'BANGALORE'); (vii) (vii) SELECT ANO, COUNT(*), MIN(AMOUNT) FROM TRANSACT (viii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT (viii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT (viii)	103	Ali Reza		Hyde	rabad	1			
105 Simran Kaur Chandigarh TABLE: TRANSACT TRNO ANO AMOUNT TYPE DOT 1001 101 2500 Withdraw 2017-12-21 1002 103 3000 Deposit 2017-06-01 1003 102 2000 Withdraw 2017-10-22 1004 103 1000 Deposit 2017-11-022 1005 102 12000 Deposit 2017-11-06 (i) To display details of all transactions of TYPE Withdraw from TRANSACT table (ii) (iii) To display ANO and AMOUNT of all Deposit and Withdrawals done in month of May' 2017 from table TRANSACT (iii) To display first date of transaction (DOT) from table TRANSACT for Account having ANO as 102 (iv) To display ANO, ANAME, AMOUNT and DOT of those persons from ACCOUNT and TRANSACT table who have done transaction less than or equal to 3000 (v) SELECT ANO, ANAME FROM ACCOUNT WHERE ADDRESS NOT IN ('CHENNAI', 'BANGALORE'); (vii) SELECT ANO, COUNT(*), MIN(AMOUNT) FROM TRANSACT (viii) SELECT ANO, COUNT(*), MIN(AMOUNT) FROM TRANSACT (viii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT	104	Rishabh Jai	n	Chen	nai	1			
TABLE: TRANSACT TRNO AMOUNT TYPE DOT T001 101 2500 Withdraw 2017-12-21 T002 103 3000 Deposit 2017-06-01 T003 102 2000 Withdraw 2017-05-12 T004 103 1000 Deposit 2017-10-22 T005 102 12000 Deposit 2017-11-06 (i) To display details of all transactions of TYPE Withdraw from TRANSACT table (ii) (iii) To display ANO and AMOUNT of all Deposit and Withdrawals done in month of May' 2017 from table TRANSACT (iii) To display first date of transaction (DOT) from table TRANSACT for Account having ANO as 102 (iv) To display ANO, ANAME, AMOUNT and DOT of those persons from ACCOUNT and TRANSACT table who have done transaction less than or equal to 3000 (v) SELECT ANO, ANAME FROM ACCOUNT WHERE ADDRESS NOT IN ('CHENNAI', 'BANGALORE'); (vi) SELECT DISTINCT ANO FROM TRANSACT (vii) SELECT ANO, COUNT(*), MIN(AMOUNT) FROM TRANSACT (viii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT (viii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT (viii)	105	Simran Kaur	Simran Kaur		ndigarh				
TRNO ANOUNT TYPE DOT T001 101 2500 Withdraw 2017-12-21 T002 103 3000 Deposit 2017-06-01 T003 102 2000 Withdraw 2017-05-12 T004 103 1000 Deposit 2017-10-22 T005 102 12000 Deposit 2017-11-06 (i) To display details of all transactions of TYPE Withdraw from TRANSACT table (ii) (iii) To display ANO and AMOUNT of all Deposit and Withdrawals done in month of 'May' 2017 from table TRANSACT (iii) To display first date of transaction (DOT) from table TRANSACT for Account having ANO as 102 (iv) To display ANO, ANAME, AMOUNT and DOT of those persons from ACCOUNT and TRANSACT table who have done transaction less than or equal to 3000 (v) SELECT ANO, ANAME FROM ACCOUNT WHERE ADDRESS NOT IN ('CHENNAI', 'BANGALORE'); (vi) SELECT DISTINCT ANO FROM TRANSACT (vii) SELECT ANO, COUNT(*), MIN(AMOUNT) FROM TRANSACT (viii) SELECT ANO, COUNT(*), SUM(AMOUNT) FROM TRANSACT (viii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT (viii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT <td></td> <td>TABL</td> <td>E: TRANS</td> <td>ACT</td> <td></td> <td></td> <td></td> <td></td> <td></td>		TABL	E: TRANS	ACT					
T001 101 2500 Withdraw 2017-12-21 T002 103 3000 Deposit 2017-06-01 T003 102 2000 Withdraw 2017-05-12 T004 103 1000 Deposit 2017-10-22 T005 102 12000 Deposit 2017-11-06 (i) To display details of all transactions of TYPE Withdraw from TRANSACT table (ii) To display ANO and AMOUNT of all Deposit and Withdrawals done in month of May' 2017 from table TRANSACT (iii) To display first date of transaction (DOT) from table TRANSACT for Account having ANO as 102 (iv) To display ANO, ANAME, AMOUNT and DOT of those persons from ACCOUNT and TRANSACT table who have done transaction less than or equal to 3000 (v) SELECT ANO, ANAME FROM ACCOUNT WHERE ADDRESS NOT IN ('CHENNAI', 'BANGALORE'); (vi) SELECT DISTINCT ANO FROM TRANSACT (vii) SELECT ANO, COUNT(*), MIN(AMOUNT) FROM TRANSACT (wiii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT (wiii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT (wiii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT	TRNO	ANO	AMOUN	т	TYPE	DOT			
T002 103 3000 Deposit 2017-06-01 T003 102 2000 Withdraw 2017-05-12 T004 103 1000 Deposit 2017-10-22 T005 102 12000 Deposit 2017-11-06 (i) To display details of all transactions of TYPE Withdraw from TRANSACT table (ii) To display ANO and AMOUNT of all Deposit and Withdrawals done in month of May' 2017 from table TRANSACT (iii) To display first date of transaction (DOT) from table TRANSACT for Account having ANO as 102 (iv) To display ANO, ANAME, AMOUNT and DOT of those persons from ACCOUNT and TRANSACT table who have done transaction less than or equal to 3000 (v) SELECT ANO, ANAME FROM ACCOUNT WHERE ADDRESS NOT IN ('CHENNAI', 'BANGALORE'); (vii) SELECT ANO, COUNT(*), MIN(AMOUNT) FROM TRANSACT (viii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT (wiii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT (wiii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT (wiii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT	T001	101	2500		Withdraw	2017-12-21			
TO03 102 2000 Withdraw 2017-05-12 T004 103 1000 Deposit 2017-10-22 T005 102 12000 Deposit 2017-11-06 (i) To display details of all transactions of TYPE Withdraw from TRANSACT table (ii) To display ANO and AMOUNT of all Deposit and Withdrawals done in month of 'May' 2017 from table TRANSACT (iii) To display first date of transaction (DOT) from table TRANSACT for Account having ANO as 102 (iv) To display ANO, ANAME, AMOUNT and DOT of those persons from ACCOUNT and TRANSACT table who have done transaction less than or equal to 3000 (v) SELECT ANO, ANAME FROM ACCOUNT WHERE ADDRESS NOT IN ('CHENNAI', 'BANGALORE'); (vi) SELECT DISTINCT ANO FROM TRANSACT (wiii) SELECT ANO, COUNT(*), MIN(AMOUNT) FROM TRANSACT GROUP BY ANO HAVING COUNT(*)> 1 (viii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT (wiii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT	T002	103	3000		Deposit	2017-06-01			
TO04 103 1000 Deposit 2017-10-22 T005 102 12000 Deposit 2017-11-06 (i) To display details of all transactions of TYPE Withdraw from TRANSACT table (ii) To display ANO and AMOUNT of all Deposit and Withdrawals done in month of 'May' 2017 from table TRANSACT (iii) To display first date of transaction (DOT) from table TRANSACT for Account having ANO as 102 (iv) To display ANO, ANAME, AMOUNT and DOT of those persons from ACCOUNT and TRANSACT table who have done transaction less than or equal to 3000 (v) SELECT ANO, ANAME FROM ACCOUNT WHERE ADDRESS NOT IN ('CHENNAI', 'BANGALORE'); (vii) SELECT DISTINCT ANO FROM TRANSACT (viii) SELECT ANO, COUNT(*), MIN(AMOUNT) FROM TRANSACT GROUP BY ANO HAVING COUNT(*)> 1 (viii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT (viiii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT	T003	102	2000		Withdraw	2017-05-12			
T005 102 12000 Deposit 2017-11-06 (i) To display details of all transactions of TYPE Withdraw from TRANSACT table (ii) To display ANO and AMOUNT of all Deposit and Withdrawals done in month of May' 2017 from table TRANSACT (iii) To display first date of transaction (DOT) from table TRANSACT for Account having ANO as 102 (iv) To display ANO, ANAME, AMOUNT and DOT of those persons from ACCOUNT and TRANSACT table who have done transaction less than or equal to 3000 (v) SELECT ANO, ANAME FROM ACCOUNT WHERE ADDRESS NOT IN ('CHENNAI', 'BANGALORE'); (vi) SELECT DISTINCT ANO FROM TRANSACT (viii) SELECT ANO, COUNT(*), MIN(AMOUNT) FROM TRANSACT (viii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT (viii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT (viii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT	T004	103	1000		Deposit	2017-10-22			
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 (iii) To display first date of transaction (DOT) from table TRANSACT for Account having ANO as 102 (iv) To display ANO, ANAME, AMOUNT and DOT of those persons from ACCOUNT and TRANSACT table who have done transaction less than or equal to 3000 (v) SELECT ANO, ANAME FROM ACCOUNT WHERE ADDRESS NOT IN ('CHENNAI', 'BANGALORE'); (vi) SELECT DISTINCT ANO FROM TRANSACT (vii) SELECT ANO, COUNT(*), MIN(AMOUNT) FROM TRANSACT (viii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT (viii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT 	 (i) To display details of all transactions of TYPE Withdraw from TRANSACT table (ii) To display ANO and AMOUNT of all Deposit and Withdrawals done in month of Max' 2017 from table TRANSACT 								
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(v) SELECT ANO, ANAME FROM ACCOUNT WHERE ADDRESS NOT IN ('CHENNAI', 'BANGALORE'); (vi) SELECT DISTINCT ANO FROM TRANSACT (vii) SELECT ANO, COUNT(*), MIN(AMOUNT) FROM TRANSACT GROUP BY ANO HAVING COUNT(*)> 1 A(COUNT) (viii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT WHERE DOT <= '2017-10-01'	(iv)	(iv) To display ANO, ANAME, AMOUNT and DOT of those persons from ACCOUNT and TRANSACT table who have done transaction less than or equal to 3000							
(vi) SELECT DISTINCT ANO FROM TRANSACT (vii) SELECT ANO, COUNT(*), MIN(AMOUNT) FROM TRANSACT GROUP BY ANO HAVING COUNT(*)> 1 A(0) (viii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT WHERE DOT <= '2017-10-01'	(v)	SELECT A WHERE A	SELECT ANO, ANAME FROM ACCOUNT WHERE ADDRESS NOT IN ('CHENNAI', 'BANGALORE');						
 (vii) SELECT ANO, COUNT(*), MIN(AMOUNT) FROM TRANSACT GROUP BY ANO HAVING COUNT(*)> 1 (viii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT WHERE DOT <= '2017-10-01' 	(vi)	SELECT I	SELECT DISTINCT ANO FROM TRAI			ANO FROM TRANSACT			
GROUP BY ANO HAVING COUNT(*)> 1 (viii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT WHERE DOT <= '2017-10-01'	(vii)	SELECT A	ANO, COUL	NT(*)), MIN(AMO	JNT) FROM TRA	NSACT		
(viii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT WHERE DOT <= '2017-10-01'		GROUP B	Y ANO HA	VIN	G COUNT(*)	> 1			Act
	(viii)	SELECT (WHERE I	COUNT(*), SUM(AMOUNT) FROM TRANSA DOT <= '2017-10-01'			СТ		Go t	

3.Write SQL queries for (i) to (vi) and find outputs for SQL queries(vii) to (x) which are based on tables:

TABLE: EMPLOYEE

ECODE	NAME	DESIG	SGRADE	DOJ	DOB
101	Vikrant	Executive	S03	2003-03-23	1980-01-13
102	Ravi	Head-IT	S02	2010-02-12	1987-07-22
103	John Cena	Receptionist	S03	2009-06-24	1983-02-24
105	Azhar Ansari	GM	S02	2009-08-11	1984-03-03
108	Priyam Sen	CEO	S01	2004-12-29	1982-01-19

TABLE: SALGRADE

SGRADE	SALARY	HRA
S01	56000	18000
S02	32000	12000
S03	24000	8000

- (i) To display details of all employee in descending order of their DOJ
- (ii) To display NAME AND DESIG of those employees whose sgrade is either 'S02' or 'S03'
- (iii) To display NAME, DESIG, SGRADE of those employee who joined in the year 2009
- (iv) To display all SGRADE, ANNUAL_SALARY from table SALGRADE [where ANNUAL_SALARY = SALARY*12]
- (v) To display number of employee working in each SALGRADE from table EMPLOYEE
- (vi) To display NAME, DESIG, SALARY, HRA from tables EMPLOYEE and SALGRADE where SALARY is less than 50000
- (vii) Select MIN(DOJ), MAX(DOB) from employee;
- (viii) Select SGrade, Salary+HRA from SalGrade where Sgrade='S02'
- (ix) Select count(distinct sgrade) from employee
- (x) Select sum(salary), avg(salary) from salgrade

4. Consider the given tables and write SQL queries for (i) to (iii)

a) In a database there are two tables : Write MYSQL queries for (i) to (iii) Table : Item ICode VCode IName Price Color S001 Mobile Phones 30000 Silver P01 S002 20000 P02 Refrigerator Cherry 45000 Black P03 S003 TV Washing Machine 12000 P04 S004 White Air Conditioner S005 50000 White P05 Table : Vendor VCode VName P01 Rahul P02 Mukesh P03 Rohan P04 Kapil (i) To display ICode, IName and VName of all the vendors, who manufacture "Refrigerator". (ii) To display IName, ICode, VName and price of all the products whose price >=23000 (iii) To display Vname and IName manufactured by vendor whose code is "PO4".

5. Write SQL queries for (i) to (iv) and find outputs for SQL queries(v) to (viii) which are based on tables:

VisitorII)	VisitorName	Gender	ComingFrom	AmountPaid	
1		Suman	F	Kanpur	2500	
2		Indu	F	Lucknow	3000	
3		Rachana	F	Haryana	2000	
4		Vikram	M	Kanpur	4000	
5		Rajesh	M	Kanpur	3000	
6		Suresh	M	Allahabad	3600	
7		Dinesh	M	Lucknow		
8		Shikha	F	Varanasi	5000	
(i) Wr	rite a	query to displa	y VisitorName	, Coming From	details of Fema	ale Visitors with
An	nount	Paid more than	1 3000			
(ii) Wr	Write a query to display all coming from location uniquely					
(iii) Wr	Write a query to insert the following values-					
	7, 'Shilpa','F','Lucknow',3000					
(iv) Wr	Write a query to display all details of visitors in order of their AmountPaid from					
hig	highest to lowest					
(v) Se	Select VisitorName from Visitor where Gender='M';					

- (vi) Select AmountPaid+200 from Visitor where VisitorID=6;
- (vii) Select Sum(AmountPaid) from Visitor where comingFrom='Kanpur';
- (viii) Select Count(VisitorName) from Visitor where AmountPaid is NULL;

6. Write SQL query to create the given table (Member):

Column name	Datatype	Size
ID	Char	6
Name	Varchar	30
Fee	Int	10
DOJ	Date	

11.POLITICAL SCIENCE

(I) WRITTEN ASSIGNMENT :- DO FOLLOWING QUESTIONS IN NOTE BOOK

Q.1Write a short note on Planning Commission of India.

Q.2What were the main differences between first five year plan and second five year plan?

- Q.3What do you mean by Green Revolution what were the merits and demerits of Green Revolution?
- Q.4What were the key controversy on the independence related with economy?

Q.5What is left and right in Indian politics?

Q.6What do you mean by decentralization planning?

Q.7What do you mean by white revolution? Write a short note on it.

Q.8 Write a short note on Election Commission of India.

Q.9 What problem were faced by Election Commission before conducting first general election in India.

(II) PROJECT WORK: -

Prepare a project file in 25 to 30 pages on A4 pages on following topic according to your roll number Roll no-1 to 3- Contemporary South Asia

- Roll no-4 to 6- Disintegration of USSR
- Roll no-7 to 10- Globalization
- Roll no-11 to 13- United Nations Organisation
- Roll no-14 to 17-- Partition Of India
- Roll no-18 to 20 Five years Plans and Green Revolution
- Roll no-21 to 23 Emergency in India
- Roll no-24 to 27 Era of One Party Deominance.
- Roll no-27 to 30 Recent developments in Indian Politics after 1989.
- Roll no-31 to 33 India's External Relations especially with China and Pakistan.

12.HISTORY

(I) WRITTEN ASSIGNMENT :- DO FOLLOWING QUESTIONS IN NOTE BOOK

- 1. Describe the drainage system of the Harappan cities.
- 2. Who was Cunningham ? Mention any one source he collected from Harappan towns.
- 3. Why is Harappan Script Considered As An Enigmatic Script?
- 4. Give features of the Harappan settlements.
- 5. Explain the sources used by historians to reconstruct the history of the Mauryan Empire.
- 6. State features of Mahajanapadas.
- 7. Explain the main features of the Mauryan administration.
- 8. Distinguish between Patriliny and Matriliny.
- 9. Mention occupations of Brahmanas according to the Dharmashastras.
- 10. Describe how were the Kinship Relations with reference to the Mahabharata.

(II) PROJECT WORK: -

Prepare a project file in 25 to 30 pages on A4 pages on following topic according to your roll number Roll no-1 to 5- Mohenjodaro

Roll no-6 to 10- Mahabharat

Roll no-11 to 15- Stupas

Roll no-16 to 20- Through the eye of traveller

Roll no-21-25- Vijaynagara Empire

Roll no-26-29- Constitution of India

Roll no 30 to 33Revolt of 1857

(III) CREATIVE WORK

Learn The Following Chapters Thoroughly and write 20 questions with answers in notebook from the following chapters (word limit 60-80 words):

a)Bricks,BeadsandBones

b)Kings,FarmersandTowns

c)Kinship,CasteandClass

(IV) MAP WORK: Fill maps of the following and paste them in your notebook

- a) Five Harappan Sites
- b) Five places related to Mahajanapada
- c) Major Buddhist site

13.PHYSICAL EDUCATION

1. Make a project

A. On Basketball/Football/kabaddi/Kho-Kho./Foot ball/

Cricket .etc

BWrite about any two life style diseases like obesity,

asthma, Hypertension, diabetes

C. SAI - KHELO INDIA PROGRAM