



ST. ANGEL'S SCHOOL
AUTUMN HOLIDAYS
HOMEWORK(2018-19)
CLASS XII
(COMMERCE)

ENGLISH

Notice – Writing

Q1. The International Book Fair is being held at Pragati Maidan between 7 November-14 November. As the librarian, write a notice informing students about it.

Advertisement – Writing

Q2. You plan to sell your two wheeler. Draft a suitable advertisement in not more than 50 words to be inserted in the classified columns of a local daily, giving all necessary details of the two wheeler. You are Sumit/ Sudha,15,Krishna Nagar,Delhi.

Report-Writing

Q3. You are Sharad/ Shalini ,a reporter for ‘The News Indian Express’.Write a report in 100-125 words on the fire accident that took place in the area of Textile Market, Ahmedabad.

Letter-Writing

Q4.You are Ankit/Amrita, staying at 4 ,Pyeroft road, Chennai. You have come across an advertisement in ‘The Times of India’ for recruitment of computer engineer trainees by Shivani Software. Apply in response to this advertisement giving your detailed bio-data. Invent all necessary details.

Q5. As Librarian of West Coast Senior Secondary School, Green Park Area Kanpur, write a letter to Messer Keerti Book House,31/70 Nirala Nagar,Lucknow,[placing an order for supply of certain books. You are Rajeev/Renu.

Article-Writing

Q6. It can be observed that in every nook and corner, young boys and girls keep on talking on cellphone for hours together .This is not proper use of cellphones.Write an article in 150-200 words for National Daily on the topic ,Cellphone is for communication not for Amusement.

Q7. Write an article for your school magazine on ‘The Need for Education of Girls in the National Development’. (word- limit:200 words)

FLAMINGO

Poem-3: 'Keeping Quiet' by Pablo Neruda

Q-1 What has man single-mindedly focused himself on?

Q-2 What does the poet mean when he says that a chemical war will result in a 'victory with no survivors'?

Poem-4: 'A Thing of Beauty' by John Keats

Q-1 What philosophy of life is highlighted in the poem 'A Thing of Beauty'?

Q-2 How does the poem highlight the poet's immense faith in the Divine Reality?

Poem-5: 'Aunt Jennifer's Tigers' by Adrienne Rich

Q-1 Where does Aunt Jennifer seek refuge on being victimized by the male world? Does she find her freedom?

Q-2 Do you think the poem has the veiled message in it? If so, what is it?

VISTAS

Lesson-3: 'Should Wizard Hit Mommy?' by John Updike

Q-1 A minute study of story 'Should Wizard Hit Mommy?' reveals that it can be convincingly ended at, at least three different levels. Justify.

Q-2 What impression do you form of Jack as a father?

Lesson-4: 'On The Face Of It' by Susan Hill

Q-1 Sympathy is divine, but sometimes it destroys one's confidence and self reliance. Analyse the truth of the statement in the light of the effect of Derek's mother's sympathy on:

- Derek's view of the world
- His own potential.

Q-2 Rather than imposing his own views on Derek, Mr. Lamb talked to him with such a great spontaneity that he got transformed in no time. How according to you Mr. Lamb managed it?

MATHS

CHAPTER 9 DIFFERENTIAL EQUATION

Q1. Find a particular solution of the differential:

$$\frac{dy}{dx} + y \cot x = 4x \operatorname{cosec} x \quad (x \neq 0)$$

Gives that $y=0$ when $x = \frac{\pi}{2}$

Q2. $(x dy - y dx) y \sin \frac{x}{y} = (y dx + x dy) x \cos \frac{x}{y}$

Q3. $x^2 y dx - (x^3 + y^3) dy = 0$

Q4. $\left(\frac{e^{-2\sqrt{x}}}{\sqrt{x}} - \frac{y}{\sqrt{x}} \right) \frac{dy}{dx} = 1 \quad (x \neq 0)$

Q5. $\frac{dy}{dx} + y \cos x = 4x \operatorname{cosec} x$

Q6. $(x^2 - 1) \frac{dy}{dx} + 2xy = \frac{2}{(x^2 - 1)}$

Q7. $\frac{dy}{dx} + y \cot x = 2x + x^2 \cot x \quad (x \neq 0)$

Given that $y=0$ when $x = \frac{\pi}{2}$

Q8. $2ye^{\frac{x}{y}} dx + (y - 2xe^{\frac{x}{y}}) dy = 0$

Given that $x=0$ when $y=1$.

CHAPTER 12

LINEAR PROGRAMMING

- Q1. A company makes two kinds of leather belts .Belt A is high quality and belt B is lower quality . The respective profits are Rs. 8 and Rs. 6 per belt . Each belt of type A requires twice as much time as a belt of type B and if all belts were of type B , company could make 1000 belts per day . The supply of leather is sufficient for only 800 belts per day . Belt A requires a fancy buckle and only 400 buckles per day are available and 700 buckles are available for Belt B . what should be daily production to maximize profit .
- Q2. A co-operative society of farmers has 50 hectares of land to grow two crops X and Y. the profit from crop X and Y per hectare are estimated at Rs. 10,500 and Rs. 9000 respectively .To control weeds , a liquid herbicide has to be used for crops X and Y rates of 20 and 10 liters per hectare . further no more than 800 liters of herbicide should be used in order to protect fish and wild life using a pond which collects drainage from this land .How much land should be allocated to each crop so as to maximize the profit .
- Q3. A manufacturer of patent medicines is preparing a production plan on medicines A and B. There are sufficient raw material available to make 20,000 bottles of A and 40,000 bottles of B, but there are only 45,000 bottles into which either of the medicines can be put . Further it takes 3 hours to prepare enough material to fill 1,000 bottles of A , it takes 1 hour to prepare enough material to fill 1,000 bottles of B and there are 66 hours available for his operation . The profit is Rs 16 per bottle for A and Rs 14 per bottle for B . How should the manufacturer schedule his production in order to maximize his profit .

- **Do exercise- 12.1 ,12.2 ,12.3 of chapter 12**

CHAPTER 7

INTEGRATION

Q1 $\int \sqrt{\frac{1-x}{1+x}} dx$

Q2. $\int_0^{\frac{\pi}{2}} \frac{x}{\sin x + \cos x} dx$

Q3. $\int \frac{x-3}{(x-1)^3} e^x dx$

Q4. $\int \frac{x^4}{(x-1)(x^2+1)} dx$

Q5 $\int_{\frac{\pi}{6}}^{\frac{\pi}{3}} \frac{1}{1+\sqrt{\tan x}} dx$

Q6 $\int_{-\pi}^{\pi} \frac{2x(1+\sin x)}{1+\cos^2 x} dx$

Q7 $\int \frac{3x+1}{2x^2-2x+3} dx$

Q8 $\int_0^1 \frac{\log x}{\sqrt{1-x^2}} dx$

Q9. $\int_0^{2\pi} e^x \cos\left(\frac{\pi}{4} + \frac{x}{2}\right) dx$

Q10 $\int_0^{\frac{\pi}{4}} \sqrt{\tan x} dx$

BUSINESS STUDIES

Chapter 9: Financial Management

- Q.1. What is the primary objective of 'Financial Management'?
- Q.2. Explain in brief any five factors that should be taken into consideration while determining capital structure for a business.
- Q.3. Explain any five points of importance of financial planning.
- Q.4 Sarah Ltd. is a company manufacturing cotton yarn. It has been consistently earning good profits for many years. This year too, it has been able to generate enough profits. There is availability of enough cash in the company and prospects of growth in the future. It is a well managed organization and believes in quality, equal employment opportunities and good remuneration practices. It has many shareholders who prefer to receive a regular income from their investments. It has taken a loan of Rs. 40 lakhs from IDBI and is bound by certain restrictions on the payment of dividend according to the terms of loan agreement.
- The above discussion about the company leads to various factors which decide how much profits should be retained and how much has to be distributed by the company.
- Quoting the lines from the above discussion identify and explain any such four factors.
- Q.5. Neelabh is engaged in 'Transport Business' and transports fruits and vegetables to different states. Stating the reason in support of your answer, identify the working capital requirements of Neelabh. Neelabh also wants to expand and diversify his transport business, explain any two factors that will affect his fixed capital requirements.
- Q.6. When is financial leverage is favorable?

Chapter 10: Financial Market

- Q.1. Explain any four functions of Stock Exchange.
- Q.2. 'Financial market plays an important role in the allocation of scarce resources in an economy by performing various functions'. Explain any three functions of financial market.
- Q.3. Differentiate between 'Capital Market' and 'Money Market'.
- Q.4. Ganesh Steel Ltd is a large and credit worthy company manufacturing steel for the Indian Market. It now wants to cater to the Asian Market and decides to invest in new hi-tech machines. Since the investment is large, it requires long term finance. It decides to raise funds by issuing equity shares. The issue of equity shares involves huge floatation cost. To meet the expenses of floatation cost, the company decides to tap the money-market.
- a). Name and explain the money market instruments the company can use for the above purpose.
- b). What is the duration for which the company can get funds through this instrument?
- c). State any other purpose for which this instrument can be used.
- Q.5. What is meant by 'Primary Market'? Briefly explain the concept of 'Initial Public Offer'.

ACCOUNTS

- Complete your Project Work
- Assignment

CHAPTER 6 (DISSOLUTION OF A PARTNERSHIP FIRMS)

Q1 Differentiate between dissolution of partnership and firm.

Q2. C & D were partners in a firm sharing profits in the ratio of 3:2. On 28th February 2016 the firm was dissolved. After transferring assets(other than cash) and outsider's liabilities to realisation account, you are given the following information:

- (a) A Creditor for Rs. 2,00,000 accepted building of Rs.2,80,000 at Rs.2,20,000 and paid the firm Rs.20,000.
- (b) A Second creditor for Rs. 75,000 accepted furniture at Rs. 60,000 in full settlement of his claim.
- (c) A third creditor amounting to Rs.80,000 accepted Rs. 20,000 in cash and investments of the book value of Rs.65,000 in full settlement of his claim.
- (d) Loss on dissolution was Rs.7,500.

Pass necessary journal entries for the above transactions in the books of the firm assuming that all payments were made by cheque.

Q3 Bhuvan ,Suraj and Ibrahim were partners in a firm sharing profits in the ratio of 3:2:1. On 30th June,2018, they decided to dissolve the firm. Following was the balance sheet of the firm on that date:

LIABILITIES	RS.	ASSETS	RS.
Creditors	50,400	Cash	13,700
Investment fluctuation fund	10,000	Stock	20,100
Reserve fund	12,000	Debtors	62,600
Capital a/c's: Bhuvan 30,000		Investment	16,000
Suraj 20,000		Furniture	20,000
Ibrahim 10,000	60,000		
	132,400		132,400

The assets were realised and the liabilities were paid off as follows:

1. Investments were taken over by Bhuvan for Rs. 18,000.
2. Stock was taken over by Suraj for Rs. 17,500 and furniture was taken over by Ibrahim at book value.
3. Rs. 60,000 were realised from the debtors.
4. Creditors were settled in full and realisation expense were Rs.4,500.

Prepare Realisation Account, Cash Account and partner's capital Accounts.

CHAPTER 7 (ISSUE OF SHARE CAPITAL)

- Q1 Differentiate between shares and debentures.
- Q2 300 equity shares of Rs.100 each were forfeited for the non payment of the allotment money of Rs. 40 per share. The first and final call of Rs. 20 per share was not made. The forfeited shares were reissued for Rs. 29,000 fully paid up. Pass necessary journal entries.
- Q3 40,000 shares of Rs. 10 each were issued for public subscription at a premium of 10%. Full amount was payable on application. Applications were received for 60,000 shares and the board decided to allot the shares on pro-rata basis. Pass journal entries.
- Q4 Kinley Ltd. Issued 1,20,000 equity shares of public subscription of Rs. 10 each at a premium of Rs. 2 per share payable as under:
Application were received for 1,60,000 shares. Allotment was made on pro-rata basis. Excess money on application was adjusted against the amount due on allotment.
Ram whom 4800 shares were allotted, failed to pay the two call. These shares were frequently after the second call was made. All the forfeited shares were reissued to Seema fully paid at Rs. 7 per share.
Record journal entries in the books of the company to record the transactions relating to the share capital.
- Q5 Abacus Pvt. Ltd. Purchased Building for Rs. 2,00,000 and Machinery Rs. 150000 from Hero Ltd. The purchase price was paid by the allotment of equity shares of Rs. 100 each for Rs. 2,80,000 at par and balance was paid in cash. Journalize the above transactions.
- Q6 Ambani Ltd. Forfeited 1500 shares of Rs. 10 each(Rs.60 called up) for non payment of the allotment money of Rs.4 per share including Re1 as premium. Of these 1000 shares were reissued to M at Rs. 5 per share as Rs.6 called up. Journalize the above transactions in the books of Ambani Ltd.
- Q7 Hardcore Computers Limited having an authorized capital of 20000 shares @ Rs. 10 each issued 15000 shares to the public at a premium of Rs. 2 per share. Applications were received for 10000 shares. The amount payable as follows:
- | | |
|-------------------------|-----------------|
| On Application | Rs.3 per share |
| On allotment | Rs.4 per share |
| On first and final call | Rs. 5 per share |

All sums were duly received by the company except the following:

Mr. Perfect holder of 100 shares did not pay allotment and call money.

Mr. Right holder of 200 shares did not pay call money.

The company forfeited all the shares of Mr. perfect and subsequently reissued them at Rs.8 fully paid up. Show the entries in the cash book and journal of the company.

ECONOMICS

DETERMINATION OF INCOME AND EMPLOYMENT

AGGREGATE DEMAND AND RELATED CONCEPT

- Q1 What is AD? . What are its component?
- Q2 What is PC ? Discuss its two types.
- Q3 What is PS ? What are its two types?
- Q4 Explain the concept of ex - ante and ex-post saving investment
- Q5 What is Investment? What are its two types?
- Q6 Distinguish between induced investment and autonomous investment
- Q7. Distinguish between APS and MPS. The value which of these 2 can be negative and when.
- Q8. Distinguish between APC and MPC. The value of which of these can be greater than 1 and when.
- Q9. Give the meaning of involuntary unemployment and full employment

INCOME DETERMINATION AND MULTIPLIER

- Q1. Explain the determination of equilibrium level of income by A) AD & AS approach b) Saving and investment approach
- Q2. Explain the determination of eq. output under fixed price model.
- Q3. Can an economy be in a state of under employment eq? Use diagram
- Q4. Discuss the state of full employment eq with diagram.
- Q5. What is multiplier? What can be its minimum value and why?
- Q6. Discuss the working investment multiplier with example
- Q7. Explain the relationship between MPC and multiplier with example.

INFORMATICS PRACTICES

- Complete your Project File (with Attractive Front page, Acknowledgement, Certificate, Coding & Output).
- Practical File should include :
 - At least 12 solutions of simple problems using IDE based Java
 - At least 2 simple problems incorporating Java Application & Database connectivity
 - At least 24 SQL queries based on one and/or two tables
 - At least two web pages using HTML

Chapter 7 WEB APPLICATIONS

1. Differentiate between HTML and XML.
2. Which HTML tags are used for making a table and adding rows in a HTML document?
3. How is tag different from tag of HTML?
4. Write a HTML code for the following table:

ECODE	NAME	DESIGNATION
E001	ANU	MANAGER
E002	KUSH	CLERK

5. Write a HTML code to generate following result :
 - Landmarks
 - Mountains
 - Lakes
6. Write attributes of following tags:
 - (i) FONT
 - (ii) IMAGE

Chapter 9 MORE ON DATABASES AND SQL

- Q1. Explain Referential Integrity.
Q2. Explain equi-join with example.
Q3. Explain UNION with example.
Q4. If table1 has 2 rows 3 columns and table2 has 3 rows 2 columns. How many rows and columns will be in Table1 X Table2 (Cartesian Product).
Q5 Consider the following Tables EMPLOYEES and EMP_SALARY.

TABLE : EMPLOYEES

EMP_ID	FIRSTNAME	LASTNAME	ADDRESS	CITY
101	SAM	TONES	33 ELM. ST.	PARIS
102	SARAH	ACHERMAN	440 U.S. 110	NEW YORK
103	MANILA	SENGUPTA	24 FRIENDS STREET	NEW DELHI
104	GEORGE	SMITH	83 FIRST STREET	HOWARD

TABLE : EMP_SALARY

EMP_ID	SALARY	BENEFITS	DESIGNATION
101	75000	15000	MANAGER
102	85000	25000	DIRECTOR
103	45000	10000	CLERK
104	32000	7500	SALESMAN

Write SQL commands to:

- Display lowest and highest salary.
- Display number of employees in each city.
- Display number of employees whose 2nd character of First Name is 'A'.
- Display average salary of each designation.
- Display name of employees whose salary is in the range 20000 and 30000.
- To display emp_id, firstname, address and city of all the employees living in NEW DELHI.
- To display the contents of employees table in descending order of lastname.
- To display the firstname, lastname and city of all salesman.
- To increase the benefits of clerks by 1000.
- Display first Name and corresponding Designation.
- Identify the Foreign Key (if any) of these tables. Justify your choice.

Chapter 10 ADVANCED RDBMS CONCEPTS

- Q1. What do you understand by a database transaction?
Q2. Define the following terms with example: a) COMMIT b) ROLLBACK c) SAVEPOINT
Q3 What happens when Autocommit is set on?
Q4. Write output of the last SQL Select statement :
mysql> START TRANSACTION;
mysql> INSERT INTO STUDENT VALUES (1, "ANU");
mysql> UPDATE STUDENT SET NAME = "TANU WHERE NAME="ANU";
mysql> SAVEPOINT A;
mysql> INSERT INTO STUDENT VALUES (1, "ANU");
mysql> DELETE FROM STUDENT WHERE RNO=1;
mysql> ROLLBACK TO A;
mysql> SELECT * FROM STUDENT;
Q5. Name two statements that can be used to end a transaction.
Q6. What happens to the current transaction if a DDL statement is executed?

Chapter 11 IP APPLICATIONS

- Q1. Write two features of e-Governance.
- Q2. Write two features of e-Business.
- Q3. Write two features of e-Learning.
- Q4. Write the important guidelines that we should keep in mind while developing an efficient application.
- Q5. Write Web address of National Portal of India.
- Q6. Write a example of a front-end and back-end.
- Q7. Anuja is creating a form for her practical file. Help her to choose most appropriate controls from List Box, Combo Box, TextField, TextArea, Radio Button, Check box, Label and Command button for the following entries from user:
- (i) A message "Enter Marks" in front of a Text Field.
 - (ii) An input to choose more than one subject from a set of choices.
 - (iii) An input for entering remarks
 - (iv) An input for accepting Gender.

PSYCHOLOGY

Chapters covered- Ch-5 Psychological Disorders, Ch-6 Attitude and Social Cognition

1. Define attitude. Discuss the components of an attitude.
2. What are the factors that influence the formation of an attitude?
3. Explain the Trauma and Stressor related disorder.
4. Differentiate between prejudice and stereotype.
5. What are the Neuro- Development Disorders?
6. Highlight the importance of schemas in social cognition.
7. Describe the schizophrenia Spectrum and other psychotic disorders.

PHYSICAL EDUCATION

Ques 1 Your elder brother is working in a reputed company at a high post. He works for long hours on computer for the past few days, He has been suffering from blurred vision. Even after taking the balance diet he is felling weak.

He had a wound on his leg which do not heel even after a medical treatment. Based on the given context, answer the following question

- (i) Name the disease your brother is suffering from?
- (ii) Which asana will you suggest to cure the disease? Briefly explain the procedure of any one of them?
- (iii) Write two values necessary for a healthy life?

Ques-2 what are life style disease? How can u prevent this disease with the help of asana?

Ques-3 You see a person on a wheel chair who want to go the second floor of the building. What will you do to help the person?

Ques-4 If you are therapist, how will you counsel the parents of a child who has optional defiant disorder?

“All the students must wear winter uniform from 22-October 2018, excluding blazers or sweaters.”