



SARALA BIRLA PUBLIC SCHOOL

Birla Knowledge City, Mahilong, Ranchi
Session - 2021-22



Assignment - I

Class: XI

ENGLISH

During vacations, read any novel of your choice and do as instructed.

1. Write about the author- style of writing, genre and other notable work.
2. Give a short summary of the novel.
3. Write a paragraph sharing its relevance to the society.

The abovementioned work should be presented in a stick file using A4 size sheet papers.

BUSINESS STUDIES

1. Explain Transactional risk?
2. Define Business ethics?
3. Give four reasons against the social responsibilities of a businessman?
4. State five difference between Whole Life insurance and Endowment policies?
5. Mr. Rajiv took Insurance policy against his car and after 3 months he sold it to Mr Kailash, The car was stolen from Mr Kailash's house, Mr Rajiv made a claim to the insurance company. His claim was rejected on the ground that Mr Rajiv was no longer the owner of the car, so he has no insurable interest and he has no financial loss with the loss of the car.
 - a) What does Principle of insurable interest state?
 - b) Was Mr Rajiv correct in making the claim?
 - c) Who should get the compensation?

ACCOUNTANCY

1. Distinguish between:
 - a) Trade Discount and Cash Discount
 - b) Provision and Reserve
 - c) Straight Line Method and Written Down Value Method
2. Write Short notes on the following:
 - a) IFRS
 - b) Accounting Standard
 - c) Assets
 - d) Liability

3. The Bank Column of the Cash Book showed an Overdraft of ₹ 5,000 on 31.3.2021, whereas per Bank Statement the overdraft is ₹ 4,200. The following differences were noticed between the two records:
- Cheques of ₹2,400 issued but not encashed by customers
 - Cheques deposited but not cleared ₹ 1,200
 - Collection charges debited by Bank not recorded in Cash Book ₹100
 - Bank interest charged by the Bank not recorded in Cash Book ₹ 300
 - Cheques dishonoured debited by Bank not in Cash Book ₹ 400
 - Interest directly received by Bank not entered in Cash Book ₹ 400
- Prepare Bank reconciliation statement after amending the Cash Book
4. Journalise the following transactions in the books of Mr. Roy
April 2021
- He started business with a capital of – Plant ₹ 10,000, Bank ₹ 8,000, Stock ₹ 12,000
 - Bought furniture for resale ₹ 5,000
Bought furniture for Office decoration ₹ 3,000
 - Paid rent out of personal cash for ₹ 2,000
 - Sold furniture out of those for resale ₹ 6,000
 - Paid Salary to Mr. X for ₹ 1,200
 - Purchased goods from Mr. Mukherjee for cash ₹ 3,000
 - Sold goods to Mr. Sen on credit for ₹ 8,000
 - Mr. Sen returned goods valued ₹ 1,000
 - Received cash from Mr. Sen of ₹ 6,500 in full settlement
 - Bought goods from Mr. Bose on credit for ₹ 5,000
 - Returned goods to Mr. Bose of ₹ 500 and paid to Mr. Bose ₹ 4,000 in full settlement.
5. Prepare an Accounting Equation from the following transactions in the books of Mr. X for January, 2021:-
- Invested Capital in the firm ₹ 20,000
 - Purchased goods on credit from Das & Co. for ₹ 2,000
 - Bought plant for cash ₹ 8,000
 - Purchased goods for cash ₹ 4,000
 - Sold goods for cash (Cost ₹ 4,000 + Profit ₹ 2,000) ₹ 6,000.
 - Paid to Das & Co. in cash ₹ 1,000
 - Received from B. Banerjee ₹ 300
 - Paid salary ₹ 6,000
 - Received interest ₹ 5,000
 - Paid wages ₹ 3,000

ECONOMICS

- Write short notes on:
 - Utility
 - Demand function.
- Differentiate between the following:
 - Expansion of demand and increase in demand.
 - Primary and secondary data

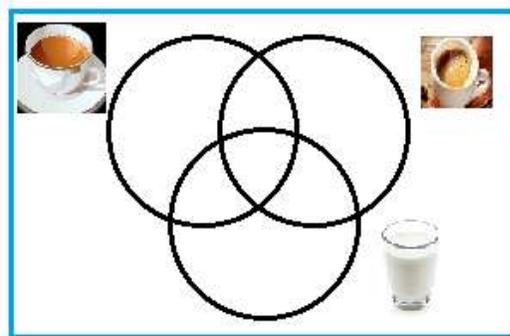
3. Define elasticity of demand. Draw the demand curve in the following situations:
- When elasticity of demand is equal to zero.
 - When elasticity of demand is equal to one.
4. A consumer's income is Rs 200 .he spends it on purchase of goods X and Y.PRICES OF X and Y are RS 40 and RS 20 respectively.
- Answer the following question:
- Write the equation of budget line
 - Write two such combination which lie on budget line
 - Write two such commodities of X and Y which are a part of his budget set but do not lie on his budget line.
5. Distinguish between census and sampling method of data collection.

ENTREPRENEURSHIP

- Explain the case study of 'Nandita Bijur'.
- What do you understand by a business plan? Also write down the elements of business plan.
- Who is a social entrepreneur? Explain the characters of a Social Entrepreneur.
- Write and explain the difference between e-commerce and e-business.
- Write and explain the barriers to entrepreneurship on the basis of:
 - Environmental Barriers
 - Personal Barriers.

MATHS (STANDARD)

- An investigator interviewed 100 students to determine the performance of 3 drinks Milk, Coffee and Tea. The investigator reported that 10 students takes all the three drinks; 20 students takes Milk and Coffee; 25 students takes Milk and Tea ; 20 students takes Coffee and Tea; 12 students takes Milk only; 15 students takes Coffee only and 18 students takes Tea only. The given below figure expresses the above situation in the form of a Venn- diagram.



Based on the above given situation and figure, Answer the given 5 questions:

- The number of students who did not takes any of the three drinks are:
 - 0
 - 5
 - 10
 - 20

- (ii) The number of students who takes exactly two of the drinks are:
- 20
 - 30
 - 35
 - 45
- (iii) The number of students who takes at least one of the three drinks are:
- 85
 - 90
 - 95
 - 100
- (iv) The number of students who takes Coffee are:
- 45
 - 35
 - 30
 - 15
- (v) The number of students who takes at most two drinks are:
- 90
 - 100
 - 85
 - 95

2. An expert interviewed 100 students to determine the selection of 3 sports Cricket, Football and Hockey. The expert reported that 10 students takes all the three sports; 20 students takes Cricket and Football; 25 students takes Cricket and Hockey; 20 students takes Football and Hockey; 12 students takes Cricket only; 15 students takes Football only and 18 students takes Hockey only. Frame any five questions on the basis of given situation and solve it in the form of a Venn-diagram.

3. If α and β are the different complex numbers with $|\beta| = 1$, then find the value of

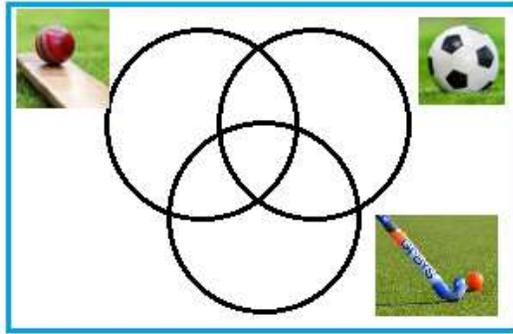
$$\left| \frac{\beta - \alpha}{1 - \bar{\alpha}\beta} \right|$$

4. If 'p' is the length of perpendicular from the origin to the line whose intercepts on the axes are 'a' and 'b' then prove that $\frac{1}{p^2} = \frac{1}{a^2} + \frac{1}{b^2}$

5. Show that the product of lengths of the perpendiculars drawn from the points $(\sqrt{a^2 - b^2}, 0)$ and $(-\sqrt{a^2 - b^2}, 0)$ to the line $\frac{x}{a} \cos \theta + \frac{y}{b} \sin \theta = 1$ is b^2 .

MATHS (APPLIED)

1. An expert interviewed 100 students to determine the selection of 3 sports Cricket, Football and Hockey. The expert reported that 10 students takes all the three sports; 20 students takes Cricket and Football; 25 students takes Cricket and Hockey; 20 students takes Football and Hockey; 12 students takes Cricket only; 15 students takes Football only and 18 students takes Hockey only. The given below figure expresses the above situation in the form of a Venn-diagram.



Based on the above given situation and figure, Answer the given 5 MCQ's questions:

- (i) The number of students who did not takes any of the three sports are:
- a) 0
 - b) 5
 - c) 10
 - d) 20
- (ii) The number of students who takes exactly two of the sports are:
- a) 20
 - b) 30
 - c) 35
 - d) 45
- (iii) The number of students who takes at least one of the three sports are:
- a) 85
 - b) 90
 - c) 95
 - d) 100
- (iv) The number of students who takes Football are:
- a) 45
 - b) 35
 - c) 30
 - d) 15
- (v) The number of students who takes at most two sports are:
- a) 90
 - b) 100
 - c) 85
 - d) 95

2. A reporter interviewed 100 students to determine the choices of 3 subjects Physics, Chemistry and Mathematics. The reporter reported that 10 students takes all the three subjects; 20 students takes Physics and Chemistry; 25 students takes Physics and Mathematics; 20 students takes Chemistry and Mathematics; 12 students takes Physics only; 15 students takes Chemistry only and 18 students takes Mathematics only. Frame any five questions based on the given situations and solve it in the form of a Venn-diagram.

3. If S_1, S_2 and S_3 are the sum of first n terms of three A.P's, the first term of each being unity and the respective common differences being 1, 2 and 3.
Then prove that: $S_1 + S_3 = 2 S_2$

4. If $\log_x yz = a$, $\log_y xz = b$ and $\log_z xy = c$, then prove that $\frac{1}{1+a} + \frac{1}{1+b} + \frac{1}{1+c} = 1$.

5. The sum of first three terms of a G.P. is $\frac{39}{10}$ and their product is 1. Find the common ratio and the terms of the G.P.

OR

The digits of a three digit number are in A.P. and their sum is 21. The number obtained by reversing the digits is 396 less than the original number. Find the number.

PHYSICAL EDUCATION

1. Write any three objectives of physical education.
2. Discuss the main objectives of Indian Olympic association.
3. Write the motto of the modern Olympic game.
4. Elaborate the objectives of 'Khelo India' Programme.
5. Ram had been suffering from stress, tension and anxiety for the last three year. Now along with these problems, he is also facing severe depression. He has already consulted many doctors but has not found an appropriate solution. Ultimately, he met our yoga instructor. The yoga instructor taught him to perform yogic asanas, pranayamas and yoganidra. After about three months of regular practice, he was feeling well

Based on the above passage, answer the following question:

- a. What is yoga?
- b. What was the problem of Ram?
- c. What did the yoga instructor teach Ram to overcome his problems?