SARALA BIRLA PUBLIC SCHOOL

Mahilong, Ranchi

Assignment - 1 (2024-25)

Class   :   XII   *COMMERCE*

ENGLISH (301)

1. Prepare a PPT depicting minimum 10 slum areas in our country. Write the details of the area and the means of survival of the people living there.

2. Paste one picture with your mother and write a self- composed poem describing your relationship.

ACCOUNTANCY (055)

1. What are the essential features of a partnership?

2. Write the contents for partnership deed?

3. X and Y started business with capital of Rs. 1,00,000 and Rs. 60,000 on 1st April 2018. Y is entitled to a salary of Rs. 800 per month. Interest is allowed on capitals and is charged on drawings at 6% per annum. Profits are to be distributed equally after the above noted adjustments. During the year X withdrew Rs. 16,000 and Y withdrew Rs. 20,000. The profit for the year before allowing for the terms of the partnership deed came to Rs. 60,000. Assuming the capitals to be fixed, prepare the capital and current accounts of X and Y.

4. Sita and Gita are partners in a firm. Balances of their capital accounts as on 1st April, 2018 were as follows; Sita Rs. 40,000, Gita Rs. 30,000. Sita introduced Rs. 5,000 as an additional capital on 1st October 2018 and Gita introduced Rs. 7,500 as additional capital on 1st November, 2018. Sita drew capital amounting to Rs. 7,500 on 1st January 2019 and Gita withdrew capital amounting Rs. 2,500 on 1st February, 2019. They have further agreed to allow interest on capital @12% per annum. Books of the accounts of the firm are to be closed on 31st March 2019.

Calculate interest to be allowed on partner's capital.

5. Calculate the interest on drawings of X @ 10% p.a. for the year ended 31st March, 2018 in each of the following cases:-

1. If his drawings during the year were Rs. 12,000

2. If he withdrew Rs. 1,000 p.m. at the beginning of every month.

3. If he withdrew Rs. 1,000 p.m. at the end of every month.

4. If he withdrew Rs. 1,000 p.m. In the middle of each month.

5. In he withdrew the following amounts; April 30th Rs. 3,000, June 30th Rs. 2,000, October 1st Rs. 4,000 , December 31st Rs. 1,500, February 1st 2,500

6. If he withdrew Rs. 3,000 at the beginning of each quarter

7. If he withdrew Rs. 3,000 at the end of each quarter.

8. If he withdrew Rs. 3,000 during the middle of each quarter.

6. X, Y and Z are three partners in a firm since 31-3-2015. They share profits and losses equally. According to the partnership agreement interest on drawings is to be charged at the rate of 10% p.a. Drawings made by partners during the year 2014-2015 are as follows:-

Date	A	B	C
April 1	2500	1500	1000
July 1	1500	1000	1500
December 1	2500	2000	1000
February 1	1000	500	500

The profits for the year amount to Rs. 15,000.

You are required to compute the interest on drawings recoverable from the partners.

7. X, Y and Z are partners in a firm sharing profits in the ratio of 2 : 2 : 1. According to the terms of the partnership agreement, Z has to get a minimum of Rs. 12,000 irrespective of the profits of the firm. Any excess payable to Z account of such a guarantee shall be borne by X. Prepare the profit or loss appropriation account showing the distribution of profits among the partners in case the profits for the year 2017-2018 are

   1. Rs. 50,000 and

   2. Rs. 80,000

8. Ram and Shyam with capitals of Rs. 60,000 and 20,000 respectively on 1st April, 2018. Net profit (before provisions of deed) for the year ended 31st March, 2019 was Rs. 24,000. The provision Deed provides:-

   1. B is entitled to a salary of 6,000 p.a.

   2. Interest on capital is to be allowed @ 6% p.a.

   3. Interest on drawings is to be charged @ 5% p.a.

The drawings of the partners A and B were Rs 6000 and 4000 respectively and interest on drawings for A being Rs. 200 and B Rs. 100.

Pass the journal entries for the above and show profit will be divided between A and B and also show the capital accounts of the partners along with their Drawings Accounts; If they are fixed and If they are fluctuating.

9. What do you mean by goodwill?

10. Explain the different methods of valuation of goodwill?

11. Pooja purchased Ritik's business on 1st April, 2019. It was agreed to value goodwill at three year's purchase of average normal profits of the last four years. The profits of Ritik's business for the last four years were:-

Year ended	Rs.
31st March, 2016	90,000
31st March, 2017	1,60,000
31st March, 2018	1,80,000
31st March, 2019	2,20,000

Following are noticed: -

During the year ended 31st March, 2016 an asset was sold at a gain (profit) of Rs. 10,000.

During the year ended 31st March, 2017 a machine got destroyed in accident and Rs. 30,000 was written off as a loss in profit and loss account.

During the year ended 31st March 2018, firm's assets were not insured due to oversight. Insurance premium being Rs. 10,000.

Calculate the value of goodwill.

12. Anita and Anaya are partners sharing profits in the ratio of 3 : 2. They admit Ashna into partnership. It was agreed to value goodwill at three year's purchase on the basis of weighted average profit for the past 5 years. Weights being assigned to each year were:-

The profits of 5 years were:-

Year ended	Profits
31st March, 2015	1,80,000
31st March, 2016	1,60,000
31st March, 2017	2,50,000
31st March, 2018	3,00,000
31st March, 2019	3,50,000

Book revealed:

An abnormal gain of Rs. 20,000 was earned in the year ended 31st March, 2016.

An abnormal loss of Rs. 10,000 was incurred in the year ended 31st March, 2017.

Expense of 50,000 incurred to overhaul a machine on 1st April, 2017 was debited to profit and loss account instead of being debited to machinery account. Depreciation is charged on machinery @20% on written down value method.

Closing stock as on 31st March 2018 was undervalued by Rs. 20,000.

Calculate the value of goodwill.

13. Amit and Akshay are partners in twins Ltd. They admit Ashish as partners on 1st April, 2019. They agreed to value goodwill at 3 year's purchase by super profit method for which they decide to take average of last 5 years profits as follows:-

Year ended	Rs.
31st March 2015	2,00,000 (including gain of 25000 from the sale of fixed asset)
31st March 2016	1,70,000 (including abnormal loss of Rs.50,000)
31st March 2017	2,10,000
31st March 2018	2,30,000
31st March 2019	2,50,000

Capital employed in the firm is Rs. 15,00,000 and normal rate of return in similar business is 10%.

Calculate the value of goodwill.

14. RG and MK are the partners in the firm. Their capitals are 3, 00,000 and 2,00,000. During the year ended 31st March, 2010 the firm earned a profit of 1,50,000. Assuming that the normal rate of return is 20%. Calculate the value of goodwill of the firm:

a) By capitalization method

b) By super profit method if the goodwill is valued at 2 years purchase of super profit.

BUSINESS STUDIES (054)

1. XYZ Entertainment Company is organizing circus 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. They are thinking of bringing in necessary changes in their shows to gain the popularity.

   a. Identify which characteristics of the Management they reflect in their business management, Give reason.

   b. Suggest the necessary actions or decisions which should be taken at each level of management to improve business opportunities. (5)

2. Define scientific management, state any three of its principles. (5)

3. Hamleys received a new order of 20000 toys. Mr. Shaurya the production Manager is expected to deliver goods in fifteen days otherwise the contract will be null and void. To retain the customer, Shaurya is planning to outsource the production of 10000 toys and deliver the order on time, but the outsourcing of the production will result in increase of the cost by 50%. Do you think Mr. Shaurya will be able to perform his responsibility effectively and efficiently ? Give reasons (5)

4. Observe your school and decide what scientific organizational management principles they follow in the following situations:

   I. Deciding the duration of lessons.

   II. Arrangements in the science laboratories.

   III. Books are found in Library, Attendance register in Administrators office.

   IV. Principal leads the school but each department has its own head who is responsible for staff members working in the department preparing financial budgets ordering books etc.

   V. Students or parents can file their complaints or request to the respective class teacher and if needed class teacher may discuss the issue with head of the department followed by vice Principal and if the issue is extremely serious it may be taken to the Principal. (5)

5. Blue Star services established a factory to manufacture blood pressure machine. The factory didn't have lighting or sanitation facilities. All the machines were kept in one room, Mr. Raj the owner appointed unskilled worker so that he could not save labor cost. He laid down all the plans and procedure to be followed. The production incharge was asked to follow the plan to produce a target of 2000 machines a month. The owner told the production manager that if he fails to achieve the target he would lose the job. The production manager was confused as there was no proper setup of machines and even the workers were not trained to manufacture blood pressure Monitors.

   a. Name the scientific Principles Blue Star services should have followed before starting the Production.

   b. State the Principles of Management Blue Star services ignored.

   c. State the values Management of Blue Star services has ignored.

ECONOMICS (030)

1) Students to make a project of 15 pages on the topic allotted and to upload it in the form of PDF on google classroom of Economics latest by 10 June. Hard copy to be submitted later. Project to comprise only of main subject matter. (Index, Certificate, Acknowledgement, Bibliography not to be written)

2) Students to make PPT OR MIND-MAP OR FLOWCHARTS on any one of the chapters of Indian Economic development. (CH-1/2/4) The same to be uploaded on google classroom of Economics latest by 10 June.

Visit the site of Reserve Bank of India https://www.rbi.org.in/

Write (a) Bank rate (b) Repo Rate (c) Reverse repo rate [mentioned in home page]

3) You have to go through the site https://www.rbi.org.in/Scripts/PublicationsView.aspx?id=21753 [RBI>Publications] Collect/Highlight the important points of Monetary Policy Report – April 2023 by RBI and explain it (500 words) with special reference to the growth, Inflation, financial market and external environment.

4) Mahatma Gandhi one said that 'real progress of India did not main simply the growth and expansion of industrial urban centres but mainly the development of the villages.' In his idea of Village Development being at the centre of the overall development of the nation is relevant even today. Why should we attach such significance to rural development when we see around us fast growing cities with large industries and modern technology hubs?

ENTREPRENEURSHIP (066)

1. The process of entrepreneurship melds all the pieces together in processes that unfold over weeks and months, or even years if the business successful. Breaking the process down into smaller components helps us understand the individual pieces and how they fit together. It is essential to point out that entrepreneurship is a process-a journey not a destination; a means not an end. All the successful entrepreneurs like Warren Buffet (Hathaway), Bill Gates (Microsoft), Jamshetji Tata (Tata Group), Azim Premji (Wipro) and many others went through this process while forming their enterprise. Discuss a case study on any of an enterprise explaining the process of entrepreneurship for that enterprise.

2. Create a case study on the life of the CEO of Infosys

3. 'If you don't adapt, you don't endure.' Explain

4. Explain the creative process

5. What is PESTEL?

STANDARD MATHS (041)

All the questions are compulsory.

1. The area of a triangle with vertices (−3, 0), (3, 0) and (0, k) is 9 sq. units. The value of k will be

   a) 9

   c) -9

   b) 3

   d) 6

2. There are two real value(s) of, for which the value of the determinant $\Delta = \begin{bmatrix} 1 & -2 & 5 \\ 2 & x & -1 \\ 0 & 4 & 2x \end{bmatrix}$

   is 86. Find the value(s) of x.

3. Let A= $\begin{bmatrix} 0 & -\tan x/2 \\ \tan x/2 & 0 \end{bmatrix}$, and I is the identity matrix of order 2, then prove that:

   $I + A = (I - A) \begin{bmatrix} \cos x & -\sin x \\ \sin x & \cos x \end{bmatrix}$

4. If A = $\begin{bmatrix} x & y \\ z & -x \end{bmatrix}$ and $A^2 = I$, then obtain a relation between x, y and z.

5. If A = $\begin{bmatrix} 3 & 1 \\ 7 & 5 \end{bmatrix}$, find x & y such that $A^2 + xI = yA$. Hence, find A^{-1}.

6. Examine the consistency of the following system of equations

   $x + y + z = 1$

   $x - 2y + 3z = 2$

   $5x - 3y + z = 1$, if possible, also find the solution.

7. If A and B are symmetric matrices of the same order, then show that (AB' − BA') is skew symmetric.

8. Write the element a of a 3 × 3 matrix A = [a_{ij}], whose elements are given by $a_{ij} = \dfrac{|i-j|}{2}$

9. Solve the following system of equations, using matrix method:

   $\dfrac{2}{x} + \dfrac{3}{y} + \dfrac{10}{z} = 4$, $\dfrac{4}{x} - \dfrac{6}{y} + \dfrac{5}{z} = 1$, $\dfrac{6}{x} + \dfrac{9}{y} - \dfrac{20}{z} = 2$; $x, y, z \neq 0$

10. Find the area of triangle whose vertices are A(-2, -3), B(3, 2) and C(-1, -8).

11. Find the inverse of $\begin{bmatrix} 2 & -3 & 3 \\ 2 & 2 & 3 \\ 3 & -2 & 2 \end{bmatrix}$

12. The cost of 4 kg potato, 3 kg wheat and 2 kg rice is Rs. 60. The cost of 1 kg potato, 2 kg wheat and 3 kg rice is Rs. 45. The cost of 6 kg potato, 2 kg wheat and 3 kg rice is Rs. 70. Find the cost of each item per kg by matrix method.

13. A school wants to award its students for the value of Honesty, Regularity and Hard work with a total cash award of Rs. 6000. Three times the award money for Hard work added to that given for Honesty amounts to Rs. 11000. The award money given for Honesty and Hard work together is double the one given for Regularity. Represent the above situation algebraically and find the award money for each value, using matrix method. Apart from the given three values, suggest one more value which the school must include for awards.

14. Make a schematic diagram on chart paper showing the properties of Adjoint of a matrix, properties of Transpose and properties of determinants.

APPLIED MATHS (241)

All the questions are compulsory.

1. Solve the following system of equations, using matrix method:

   $\dfrac{2}{x} + \dfrac{3}{y} + \dfrac{10}{z} = 4$, $\dfrac{4}{x} - \dfrac{6}{y} + \dfrac{5}{z} = 1$, $\dfrac{6}{x} + \dfrac{9}{y} - \dfrac{20}{z} = 2$; $x, y, z \neq 0$

2. There are two real value(s) of x, for which the value of the determinant $\Delta = \begin{vmatrix} 1 & -2 & 5 \\ 2 & x & -1 \\ 0 & 4 & 2x \end{vmatrix}$

   Is 86. Find the value(s) of x.

3. Solve the following system of linear equations by Cramer's rule:

   $6x + y - 3z - 5 = 0$

   $x + 3y - 2z - 5 = 0$

   $2x + y + 4z - 8 = 0$

4. If A = $\begin{bmatrix} x & y \\ z & -x \end{bmatrix}$ and $A^2 = I$, $then$ $obtain$ a $relation$ $between$ x, y and $z.$

5. If A = $\begin{bmatrix} 3 & 1 \\ 7 & 5 \end{bmatrix}$, $find\ x\ \&y\ such\ that\ A^2 + xI = yA.\ Hence,\ find\ A^{-1}$.

6. Find the inverse of $\begin{bmatrix} 2 & -3 & 3 \\ 2 & 2 & 3 \\ 3 & -2 & 2 \end{bmatrix}$.

7. Examine the consistency of the following system of equations

   x-y+ z =3

   2x +y -z = 2

   -x – 2y +2z = 1.

   If possible, also find the solution.

8. If A and B are symmetric matrices of the same order, then show that (AB' – BA') is skew symmetric.

9. Write the element a of a 3 × 3 matrix A = [a$_{ij}$], whose elements are given by a$_{ij}$ = $\dfrac{|i-j|}{2}$

10. Find the area of triangle whose vertices are A(-2, -3), B(3, 2) and C(-1, -8).

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