

Kendriya Vidyalaya Sundargarh

Sub-Mathematics(XII) Holiday Homework

Q1 .Find fog , if $f(x) = 8x^3$ and $g(x) = x^{\frac{1}{3}}$.

Q 2.If $\sin(\sin^{-1}\frac{1}{5} + \cos^{-1}x) = 1$, find the value of x .

Q3. If , $f(x) = \frac{4x+3}{6x-4}$, show that $f \circ f(x) = x$,for all $x \neq 2/3$.

Q4.Show that $\sin^{-1}\frac{12}{13} + \cos^{-1}\frac{4}{5} + \tan^{-1}\frac{63}{16} = \pi$

Q5. Find the value of : $\tan^{-1}\frac{1}{5} + \tan^{-1}\frac{1}{7} + \tan^{-1}\frac{1}{3} + \tan^{-1}\frac{1}{8}$.

Q 6 . Show that the relation R in the set $A = \{x \in \mathbb{Z} : 0 \leq x \leq 12\}$ given by $S = \{(a, b) : a, b \in \mathbb{Z}, |a - b| \text{ is divisible by } 4\}$ is an equivalence relation.

Q7. If $\tan^{-1}x + \tan^{-1}y = \frac{\pi}{4}$, $xy < 1$, then write the value of $x+y+xy$.

Q8. Solve the equation for x : $\sin^{-1}x + \sin^{-1}(1-x) = \cos^{-1}x$.

Q9. Prove that $2\sin^{-1}(\frac{3}{5}) - \tan^{-1}(\frac{17}{31}) = \frac{\pi}{4}$.

Q10. If $A = \begin{bmatrix} 0 & 3 \\ 2 & -5 \end{bmatrix}$ and $KA = \begin{bmatrix} 0 & 4a \\ -8 & 5b \end{bmatrix}$. Find the values of K and a

Q11. Prove that diagonal elements of a skew symmetric matrix are zero.

Q12. If A & B are symmetric matrices, prove that $AB - BA$ is a skew symmetric matrix.

Q13. If $A = \begin{bmatrix} 3 & 1 \\ -1 & 2 \end{bmatrix}$ then show that $A^2 - 5A + 7I = 0$. Hence find A^{-1} .

Q14. $A = \begin{bmatrix} 1 & 2 \\ 2 & 1 \end{bmatrix}$ and $B = \begin{bmatrix} 2 & 2 \\ 3 & 1 \end{bmatrix}$. Find the Matrix X such that $A+B-X=O$

Do it in HW Copy and paste/write the question first. Good luck S.BHOI PGT(MATHS)

BHOI

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Kendriya Vidyalay Sundargarh

Class 12th Commerce Subject- Accountancy

Summer vacation homework

- 1) A and B are partners in a firm. A is entitled to a salary of ₹15,000 p.m and a commission of 10% of net profit before charging any commission. B is entitled to a commission of 10% of net profit after charging his commission. Net profit till 31st March 2018 was ₹4,40,000. Show the distribution of profit.
- 2) Akshara and Samiksha are partners. Business is carried from the property owned by Akshara on a monthly rent of ₹5,000. Akshara is entitled to a salary of ₹40,000 per quarter and Samiksha get a commission of 4% on net sales, which during the year was ₹5,00,000. Net profit till 31st March, 2018 before providing for rent was ₹6,00,000

Prepare a profit and loss appropriate account till 31st March 2018.

- 3) Ravi and Mohan were partners in a firm sharing profits in the ratio of 7:5. Their respective fixed capitals were Ravi ₹10,00,000 and Mohan ₹7,00,000. The partnership deed provided for the following:
 1. Interest on Capital @ 12% pa.
 2. Ravi's salary ₹6,000 per month and Mohan's salary ₹60,000 per year.

The profit till March 31-3-2019 was ₹5,04,000 which was distributed equally, without providing for the above. Record an adjustment entry.

4) In the absence of Partnership Deed, what are the rules related to :

- (a) Salaries of partners,
- (b) Interest on partners' capitals
- (c) Interest on partners' loan
- (d) Division of profit, and
- (e) Interest on partners' drawings

5) Jaspal and Rosy were partners with a capital contribution of ₹ 10,00,000 and ₹ 5,00,000, respectively. They do not have a Partnership Deed. Jaspal wants that profits of the firm should be shared in their capital ratio. Rosy convinced Jaspal that profits should be shared equally. Explain how Rosy would have convinced Jaspal for sharing the profit equally.

6) X and Y are partners sharing profits and losses in the ratio of 2 : 3 with capitals ₹ 2,00,000 and ₹ 3,00,000, respectively. On 1st October, 2018, X and Y gave loans of ₹ 80,000 and ₹ 40,000 respectively to the firm. Show distribution of profits/losses for the year ended 31st March, 2019 in each of the following alternative cases:


Case 1: If the profits before interest for the year amounted to ₹ 21,000.

Case 2: If the profits before interest for the year amounted to ₹ 3,000.

Case 3: If the profits before interest for the year amounted to ₹ 5,000.

Case 4: If the loss before interest for the year amounted to ₹ 1,400.

7) From the following Balance Sheet of Long and Short, calculate interest on capital @ 8% p.a. for the year ended 31st March, 2019.


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Balance Sheet as on 31st March, 2019

Liabilities	₹	Assets	₹
Long's Capital A/c	1,20,000	Fixed Assets	3,00,000
Short's Capital A/c	1,40,000	Other Assets	60,000
General Reserve	1,00,000		
	3,60,000		3,60,000

During the year, Long withdrew ₹ 40,000 and Short withdrew ₹ 50,000. Profit for the year was ₹ 1,50,000 out of which ₹ 1,00,000 was transferred to General Reserve.

8) Ali the Bahadur are partners in a firm sharing profits and losses as Ali 70% and Bahadur 30%. Their respective capitals as at 1st April, 2018 stand as Ali ₹ 25,000 and Bahadur ₹ 20,000. The partners are allowed interest on capitals @ 5% p.a. Drawings of the partners during the year ended 31st March, 2019 amounted to ₹ 3,500 and ₹ 2,500, respectively.

Profit for the year, before charging interest on capital and annual salary of Bahadur @ ₹ 3,000, amounted to ₹ 40,000, 10% of divisible profit is to be transferred to Reserve.

You are asked to show Partners' Current Account and Capital Accounts recording the above transactions.

Sign of the Subject Teacher: Bhanoti Venma

W
 11/11/2019
 Bhanoti Venma
 Subject Teacher
 11/11/2019

Kendriya vidyalay Sundargarh

Class 12th Commerce Subject- Business Studies

Summer Vacation homework

- 1) Sanchit, after completing his entrepreneurship course from Sweden returned to India and started a coffee shop 'AromaCoffeeCan' in a famous mall in New Delhi. The speciality of the coffee shop was the special aroma of coffee and a wide variety of flavours to choose from. Somehow, the business was neither profitable nor popular. Sanchit was keen to find out the reason. He appointed Sandhya, an MBA from a reputed college, as a Manager to find out the causes for the same. Sandhya took feedback from the clients and found out that though they loved the special unique aroma of coffee but were not happy with the long waiting time being taken to process the order. She analysed and found out that there were many unnecessary obstructions in between which could be eliminated. She fixed a standard time for processing the order. She also realised that there were some flavours whose demand was not enough. So, she also decided to stop the sale of such flavours. As a result within a short period Sandhya was able to attract the customers.

Identify and explain any two techniques of scientific management used by Sandhya to solve the problem.

- 2) What did Taylor want to communicate through mental revolution?
3) Briefly explain work study techniques that help in developing standards to be followed throughout the organization.
4) The principles of Taylor and Fayol are mutually complementary. One believed that management should share the gains with the workers while the other suggested that employees' compensation should depend on the earning capacity of the company and should give them a reasonable standard of living.

Identify and explain the principles of Fayol and Taylor referred to in the above paragraph.

- 5) The principles of Taylor and Fayol are mutually complementary. One believed that management should not close its ears to constructive suggestions made by the employees while the other suggested that a good company should have an employee suggestion system whereby suggestions which result in substantial time or cost reduction should be rewarded.

Identify and explain the principles of Taylor and Fayol referred to in the above paragraph.


- 6) With changes in the consumption habits of people, Neelesh, who was running a sweet shop, shifted to the chocolate business. On the eve of Diwali, he offered chocolates in attractive packages at reasonable prices. He anticipated huge demand and created a website chocolove.com for taking orders online. He got a lot of orders online and earned huge profits by selling the chocolate.

Identify and explain the dimensions of business environment discussed in the above case.

- 7) As per the directions issued by the Supreme Court, the government passed an order to ban the sale of tobacco products within the area of 200 meters of all educational institutions as:


1. Its consumption is injurious to health.
2. People are becoming more conscious about health and fitness. This indicates the government's attitude towards this business.

Identify the business environment under three different dimensions by quoting from above paragraph.


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- 8) Just after the declaration of the results of the Lok Sabha Elections, 2009, the Bombay Stock Exchange's price index (Sensex) rose by 2100 points in a day. Identify the environmental factor which led to this rise.
- 9) Post demonitisation in a further push to cashless economy, the Central cabinet has recently approved the ordinance for paying wages via electronic means. Accordingly, the government approved to Amend Section 6 of the Payment Of Wages Act 1936, to allow employers of certain industries to make payment through the electronic mode and cheques. The new ordinance will be applicable to the public sector. Identify the various dimensions of business environment which relate to the above mentioned case.
- 10) Make in India is an initiative launched by the Government of India to encourage national and multinational companies to manufacture their products in India. It focuses on job creation and skill enhancement and is in twenty five sectors of the economy. Under the initiative, brochures on these sectors and a web portal were released. The initiative aims at high quality standards and minimising the impact on the environment. It also seeks to attract foreign capital investment in India. In context of the above case:
1. Identify the various dimensions of business environment being referred to by quoting lines from the paragraph.
 2. List any two values which the Government of India wants to convey through this initiative.
- 11) Eco-friendly products are gaining power as the consumers' awareness about environmental issues has increased over the years and they are conscious about choosing products that do not have adverse effects on the environment. They are now more conscious about the carbon emission and climate change effects, and want themselves to be 'seen' as a green advocate among their peers. In such a scenario, it has become a challenge for the companies as they have to not only meet the needs of the consumers but also ensure that their products are safe and environment friendly. As a result, there is growing need for better and advanced technologies to work as a catalyst in this regard.
1. Identify the relevant feature of business environment being discussed above.
 2. Describe briefly any three points which highlight the importance of business environment and its understanding by managers.

SIGN OF THE SUBJECT TEACHER : Bharati Verma


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KENDRIYA VIDYALAYA SUNDARGARH

SUMMER HOLIDAY HOMEWORK


CLASS- XII COMMERCE

SUBJECT- ECONOMICS

- 1) Discuss the concept of stock and flow. Why is national income a flow concept?
- 2) Discuss briefly the circular flow of income in a 2 sector economy with the help of a suitable diagram.
- 3) Distinguish between real flow and nominal flow.
- 4) Differentiate capital loss and depreciation.
- 5) Classify the following into intermediate goods or final goods:
 - a) Paper purchased by a grocery shop
 - b) Cloth used by a tailor
 - c) Furniture purchased by a school
 - d) Car purchased by a household
 - e) On sold wood with a furniture producing firm at the end of a year
 - f) Seeds purchased by a farmer
 - g) Chemical fertiliser used by a farmer
 - h) Mobile sets purchased by a mobile dealer
 - i) Purchase of sugar by a grocery shop
 - j) Electricity consumption in a business
- 6) If NDP_{fc} is ₹4,000 crore and NFIA is (-) ₹5 crore, how much will be the national income.
- 7) Suppose the GDP at market price of a country in a particular year was ₹1100 crore. Net factor income from abroad was ₹100 crore. The value of indirect taxes ___ subsidies was ₹150 crore and national income was ₹850 crore. Calculate the aggregate value of depreciation.
- 8) 'Machine purchased is always a final good.' Do you agree? Give reasons for your answer.
- 9) Write down and explain the functions of money.
- 10) Explain the credit creation by the commercial Bank.

P.P. Mishra

Sign of Subject teacher


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Kendriya Vidyalaya Sundargarh

Class-XII Sc/Com , Sub- FND

Holiday Homework (SUMMER VACATION)

1. Define balanced diet.
2. What do you mean by nutritionist?
3. List the various scope of nutritionist?
4. Define fever. Mention their types.
5. How can aware People for TB?
6. Briefly explain method to prepare tea.
7. Write the difference between dry method and wet method of cooking. In your opinion which method of cooking is better. Give reasons.
8. Mention 4 main good personal hygiene habits.
9. Write the causes, symptoms and nutritional management for Typhoid?
10. How will you prevent cross contamination in kitchen?
11. Define BMR?
12. What diet would you suggest for a person suffering from fever?
13. Define nutrition. Differentiate between the types of nutrition.
14. Explain different types of diets with example.
15. Write 2 cooking methods with their advantage and disadvantages with example.

Suman Nayak


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KENDRIYA VIDYALAYA SUNDARGARH
HOLIDAY HOMEWORK SUMMER VACATION 2023
CLASS: XII Science and Commerce

SUB: ENGLISH

Q1. A Hare was making fun of the Tortoise one day for being so slow.

"Do you ever get anywhere?" he asked with a mocking laugh.

"Yes," replied the Tortoise, "and I get there sooner than you think. I'll run you a race and prove it."

The Hare was much amused at the idea of running a race with the Tortoise, but for the fun of the thing he agreed.

So, the Fox, who had consented to act as judge, marked the distance and started the runners off.

The Hare was soon far out of sight, and to make the Tortoise feel very deeply how ridiculous it was for him to try a race with a Hare, he lay down beside the course to take a nap until the Tortoise should catch up.

The Tortoise meanwhile kept going slowly but steadily, and, after a time, passed the place where the Hare was sleeping. But the Hare slept on very peacefully; and when at last he did wake up; the Tortoise was near the goal.

The Hare now ran his swiftest, but he could not overtake the Tortoise in time.

Choose the correct options from the questions that follow.

a. The Hare made fun of the Tortoise because _____

- i. The tortoise is a funny creature ii. The tortoise was way much confident
iii. The tortoise was not a match for him iv. The tortoise was sluggish

b. Assertion(A): The Hare lost the battle.

Reason (R): The Hare was over-confident.

- i. Both the A and R are true and R is the reason for A.
ii. Both the A and R are true but R is not a reason for A.
iii. Both the A and R are false.
iv. A is true but R is false.

c. Which word will replace the underlined word as its closest synonym.

...make the tortoise feel very deeply how ridiculous it was for him to try a race with him


- i. risible ii. sarcastic iii. challenging iv. lackadaisical

d. Why did the Hare lose the race ?

Q2. You are Sumit/Sumita of Pahadgunj, New Delhi. You came across a group of rag-pickers in the city who were without footwears in the summer. Draft a notice for your schoolmates asking them to donate their spare footwears which no more fit their feet. You study at Bloomsberg Public School.

OR

You are Rebat/Riyaz of KV Jabalpur. Your school is planning to organize an exhibition of Millets in your school. Request the students and parents to take part in it by displaying the millets and cuisines made from it. Include relevant details.


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Q3. You are Adyasha/Abinash, a press reporter of a national daily. You attended an eye-testing camp organized at Firozabad for the bangle-makers. Use the following cues to write a report for your newspaper.

- *It was a need of the locality.
- *Most people lose their eye-sight too early.
- *Doctors sensitized people about protection of eyes.
- *30% people aged 30 and above were reported eye-sight issues.
- *Some were given eye-goggles and medicine.
- *more than 50 cases were referred for further testing.
- *The Chief Health Officer expressed concerns and assured all cooperation.

OR

You are Ravindra/Rekha of Savitribai Phule Govt. School, Pune. Your school organized a sensitization programme on the 'Importance of Girls Education' which was attended by school students and local community. Write a report for your school newsletter as a member of CCA Club. You can use the following cues.

- *There is a huge gap of about 15% in the literacy rate of males and females as per 2011 census.
- *Focus is being given for co-education and providing incentives to girls education.
- *The programme was inaugurated by the District Edn. Officer.
- *Role of Savitribai Phule was reiterated.
- *The Headmaster read out a report of their school.
- *The women from community were motivated
- *It was decided to start an enrolment drive.

Q4. Write a letter to the Editor, The Nav Bharat Times informing him about the lack of sewage, drainage and drinking water facility available for the slum dwellers of Seemanagri, Delhi requesting him to highlight the problem through the daily suggesting some feasible solutions and steps to be taken. You are Anandita/Anand, a resident of East Delhi.

OR

Write a letter to the Editor, New Eastern Times informing him about the pathetic conditions of the bangle-makers of your city Firozpur requesting him to highlight the problem through the daily suggesting some feasible solutions and steps to be taken. You are Arunima/Arjun, a resident of Firozpur.

Q5. Answer any two of the following questions in about 120-150 words.

- Mother Tongue is essential for one's identity. Describe how the people of Alsace realize it too late.
- Comment how time and place intersected in the story 'The Third Level' making the story a riveting one.
- Poverty has but a single face; that is of deprivation, illiteracy and poor living condition. Discuss it after reading of the chapter 'Lost Spring'.

M
Sub. Tr

CL-TP

BRINDA
KUMARI
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शीष्मकालीन अवकाश गृह कार्य

कक्षा - बारहवीं (अ/ब)

विषय - हिन्दी

प्र१. 'एक गीत' कविता के माध्यम से कष्टों को सहते हुए भी खुशी और मस्ती का माहौल कैसे पैदा किया जा सकता है?

प्र२. आपके जीवन में शरद ऋतु क्या मायने रखती है?

प्र३. 'भाषा को सहूलियत' से बरतने से क्या अभिप्राय है?

प्र४. किशनदा का चारित्रिक व्यक्तित्व का उल्लेख करें।

प्र५. निम्नलिखित विषयों पर रचनात्मक लेख लिखिए।

क) स्त्री-शिक्षा

ख) ऑनलाइन खरीदारी: व्यापार का बदलता स्वरूप

ग) राष्ट्र हमारा सबको प्यारा

Pinki Kumari Samanth