

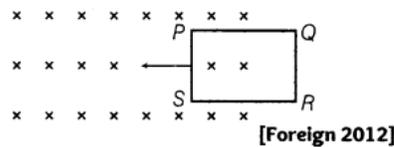
Amrit Public School, Mau

Dussehra Holiday Homework-2018

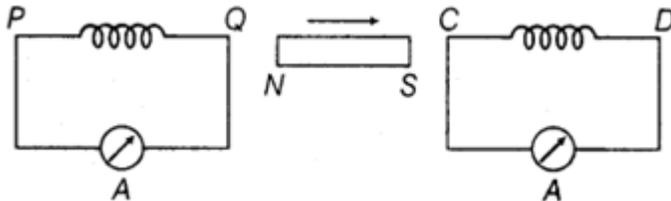
Class-XII- Science Group

Physics

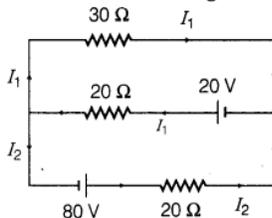
1. State Lenz's law. A metallic rod held horizontally along east-west direction, is allowed to fall under gravity. Will there be an emf induced at its ends? Justify your answer.
2. The closed loop PQRS of wire is moved into a uniform magnetic field at right angles to the plane of the paper as shown in the figure. Predict the direction of the induced current in the loop.



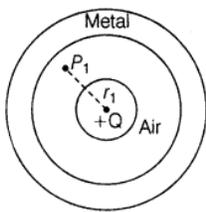
3. A bar magnet is moved in the direction indicated by the arrow between two coils PQ and CD. Predict the directions of induced current in each coil.



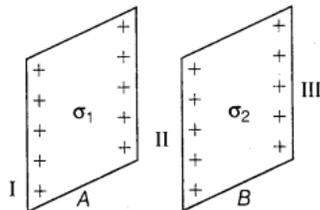
4. Write the condition under which an electron will move undeflected in the presence of crossed electric and magnetic fields.
5. A plane electromagnetic wave travels in vacuum along Z- direction. What can you say about the direction of electric and magnetic field vectors?
6. Draw a sketch of a plane electromagnetic wave propagating along the Z-direction. Depict clearly the directions of electric and magnetic fields varying sinusoidally with Z.
7. How does the mutual inductance of a pair of coils change, when
 - (i) distance between the coils is increased and
 - (ii) number of turns in the coils is increased?
8. Define the term self-inductance of a solenoid. Obtain the expression for the magnetic energy stored in an inductor of self-inductance L to build up a current I through it.
9. The current flowing in the two coils of self-inductance $L_1 = 16$ mH and $L_2 = 12$ mH are increasing at the same rate. If the power supplied to the two coils are equal, find the ratio of
 - (i) induced voltages
 - (ii) the currents and
 - (iii) the energies stored in the coil at a given instant.
10. Use Kirchhoff's rules to determine the value of the current I_x flowing in the circuit shown in the figure.



11. Two point charges q and $-2q$ are kept d distance apart, find the location of the point relative to charge q at which potential due to this system is zero.
12. An electric dipole is placed in a uniform electric field E with its dipole moment p parallel to the field. Find
 - (i) the work done in turning the dipole till its dipole moment points in the direction opposite to E .
 - (ii) the orientation of the dipole for which the torque acting on it becomes maximum.
13. A small metal sphere carrying a charge $+Q$ is located at the centre of a spherical cavity in a large uncharged metallic spherical shell. Write the charges on the inner and outer surfaces of the shell. Write the expression for the electric field at the point P_x .



14. (i) Point charge (+Q) is kept in the vicinity of and uncharged conducting plate. Sketch electric field lines between the charge and the plate.
 (ii) Two infinitely large plane thin parallel sheets having surface charge densities σ_1 and σ_2 ($\sigma_1 > \sigma_2$) are shown in the figures. Write the magnitude and directions of net fields on the marked II and III.



15. Define the term electric dipole moment. Is it a scalar or vector? Deduce an expression for the electric field at a point on the equatorial plane of an electric dipole of length $2a$.
 16. Solve the numerical and question answer of last 7 years paper from 2010 to 2016 chapterwise which have been taught.

Chemistry

- In a crystalline solid, the atoms A and B are arranged as follows: a. atoms A are arranged in ccp array b. atoms B occupy all the octahedral voids and half of the tetrahedral voids. What is the formula of the compound?
- What type of substances show antiferromagnetism?
 - Assign reason for the fact that silicon doped with phosphorus is a semiconductor.
- Calculate the density of silver which crystallizes in face centred cubic form. The distance between nearest metal atoms is 287pm. (molar mass of Ag = $107.87 \text{ g mol}^{-1}$, $N_0 = 6.022 \times 10^{23}$)
- The molar mass of bio molecules is determined by osmotic pressure and not by other colligative properties. Why?
- Differentiate between molarity and molality of a solution. What is the effect of change in temperature on its molality and molarity values?
- A solution containing 15g of urea (molar mass = 60 g mol^{-1}) per litre of solution in water has the same osmotic pressure (isotonic) as a solution of glucose (molar mass = 180 g mol^{-1}) in water. Calculate the mass of glucose present in one litre of its solution.
- Write the anode and the cathode reactions and the overall reaction occurring in a lead storage battery sending out an electric current. ii) Determine the value of equilibrium constant K_c and ΔG° for the following reaction:

$$\text{Ni(s)} + 2\text{Ag} \rightarrow \text{Ni}^{2+}(\text{aq}) + 2\text{Ag(s)}$$
 Given : ($1F = 96500C$) and $E^\circ = 1.05V$
- Define the term molar conductivity and explain how molar conductivity changes with solution concentration for weak and strong electrolytes.
 - A strip of nickel metal is placed in a 1 molar solution of $\text{Ni(NO}_3)_2$ and a strip of silver metal is placed in 1 molar solution of AgNO_3 . An electrochemical cell is created when the two solutions are connected by a salt bridge and the two strips are connected by wires to a voltmeter.
 - Write the balanced equation for the overall reaction occurring in the cell and calculate the cell potential.
 - Calculate the cell potential E_{cell} at 25°C for the cell if the initial concentration of $\text{Ni(NO}_3)_2$ is 0.100 molar and initial concentration of AgNO_3 is 1.00 molar
- Solve the numerical and question of last 7 years paper from 2010 to 2016 chapterwise which have been taught.

English

- Q.1** You are Simar / Smriti of Lotus International School, Jodhpur. Your school is organizing a workshop on "Prevention of Drug Abuse" in the coming week. Prepare a poster with complete information for the students of class X-XII.
- Q.2** You are Simar / Smriti of Lotus International School, Jodhpur. Your school has decided to contribute in controlling traffic near your school and requires the names of volunteers from IX to XII. Write a notice to be displayed on the notice board. (50 words) (4)

- Q.3** Public demonstration causes a lot of disturbance in daily routine of common man. You almost missed your important entrance examination as people blocked the highway. As Tarun / Taruna, a student aspiring to be a doctor, write a letter to the Editor of The Times of India highlighting the need to discourage such demonstrations and disturbance by public on highways which cause a great loss of time and opportunity for many. (100-125 words)
- Q.4** You are Tarun / Taruna who bought a new Luminous Inverter for your home from R.K. Electronics, Noida but found many functional problems as the charging is not done properly and battery water is getting leaked. Write a letter of complaint to the proprietor to take care of the same. (100-125 words)
- Q.5** You are Mukul / Mahima of Alps Public School. Your school has organized a debate on „Social Media and It’s Effects“and you will be participating from your school. Prepare your views against or in favour of the motion. (150-200 words)
- Q.6** As Mukul / Mahima of Alps Public School, write a speech to be delivered in school assembly highlighting the importance of cleanliness suggesting that the state of cleanliness reflects the character of its citizens. (150-200 words)
- Q.7** By 2050, India will be amongst the countries which will face acute water shortage. You are highly alarmed and terrified of the future world without water. So, write an article on „Save water- are we doing enough?“ for the local daily in 150-200 words.
- Q.8** You are Karan / Kirti of L.M. Memorial Public School, Dwarka. Your school has adopted a village as a social responsibility. Students are being taken to teach the children of that village on a regular basis. Write a report, for your school magazine, on the various other programmes organized there in 150-200 words.
- Q.9.** Read ten chapters of the novel ‘Silas Marner’ properly and frame two questions from each chapter in your own words and note down in your copy along with the answer. Each question should be of 4 marks.

Biology

1. Describe the three different ways by which natural selection can affect the frequency of a heritable trait in a population.
2. (i) Explain Darwinian theory of evolution with the help of one suitable example. State the two key concept of theory.
(ii) Mention any three characteristics of Neanderthal man that lived in near East and central Asia.
3. (i) Explain adaptive radiation with the help of suitable example.
(ii) Cite an example where more than one adaptive radiations have occurred in an isolated geographical area. Name the type of evolution your example depicts and state why it is so named?
4. What was proposed by Oparin and Haldane on origin of life? How did SL Miller’s experiment support their proposal?
5. Given below is a part of the template strand of a structural gene.
TACCATTAGGAT
(i) Write its transcribed mRNA strand with its polarity.
(ii) Explain the mechanism involved in initiation of transcription of this strand.
6. (i) Write the specific features of the genetic code AUG.
(ii) Genetic codes can be universal and degenerate. Write about them, giving one example of each.
(iii) Explain aminoacylation of the tRNA.
7. Describe the process of transcription in bacterium.
8. ‘Intra-cytoplasmic sperm injection’ and ‘Gamete Intra Fallopian Transfer (GIFT)’ are two assisted reproductive technologies. How is one different from the other?
9. (i) Describe the formation of mature female gametophyte within an ovule in angiosperms.
(ii) Describe the structure of cell that guides the pollen tube to enter the embryo sac.
10. Solve the questions of last 7 years paper from 2010 to 2016 chapterwise which have been taught.

Mathematics

1. If f is an invertible function defined as $f(x) = \frac{3x-4}{5}$, then write $f^{-1}(x)$.
2. If the binary operation $*$ defined on Q is defined $a*b = 2a + b - ab$, for all $a, b \in Q$. Find the value of $3*4$.
3. Write the value of $\sin\left[\frac{\pi}{3} - \sin^{-1}\left(-\frac{1}{2}\right)\right]$
4. Find x and y , if $2\begin{bmatrix} 1 & 3 \\ 0 & x \end{bmatrix} + \begin{bmatrix} y & 0 \\ 1 & 2 \end{bmatrix} = \begin{bmatrix} 5 & 6 \\ 1 & 8 \end{bmatrix}$
5. Find for what value of x , is the following matrix singular?

$$\begin{vmatrix} 3 - 2x & x + 1 \\ 2 & 4 \end{vmatrix}$$

6. Write the derivatives of Sin x with respect to Cosx.
7. Using derivatives, find the approximate value of $\sqrt{49.5}$
8. Evaluate: $\int_0^1 \cot^{-1}(1-x+x^2) dx$
9. Find the area of regular bounded by $y^2=4x$, $x=1$ and $x=2$ in first quadrant.
10. Find the differential equation family of parabola $x^2=4ay$.
11. Solve the questions of last 7 years paper from 2010 to 2016 chapter wise which have been taught.

Physical Education

1. What are the 5 main causes of poor posture? Explain each cause briefly.
2. Suggest any five physical exercises as corrective measures for kyphosis and lordosis.
3. What are the effects of good nutrition on an individual?
4. What are fats? Write a detailed note on its types. Also mention its importance in the proper functioning of the body.
5. What are the goals of eating during competition? Explain the two different categories of such nutrition, indicating the different requirements
6. How can physical education create leaders and desirable qualities of leaders in people?
7. Explain five methods of conservation of environment which should be employed by persons engaging in adventure sports.
8. Explain cyclic method of league tournament for 4 teams.
9. Explain the staircase method of a league tournament for 7 teams.
10. What do you mean by knock-out tournament? Draw the fixture of 21 teams on knock-out basis.

Informatics Practices

- a) Define: (a) Relation, (b) Attribute or column, (c) Touple or row, (d) Field or Attribute (e) Degree, (f) Cardinality, (g) Entity.
- b) Define: DDL , DCL , DML , TCL , Query command.
- c) Define the following **KEYs**: FOREIGN KEY , PRIMARY KEY , CANDIDATE KEY , ALTERNATIVE KEY
- d) Describe different 3 types (1-1, 1-many, many-many) of data relationships.
- e) With diagram describe the different components of Database.
- f) What are problems of Data Redundancy and Data Inconsistency?
- g) What is Cartesian Product? Give example.
- h) What will be value of the cardinality if you add 3 rows to a table of existing 5 records?
- i) In a query what is the use of “_ _a%” ? [1]
- j) How do you create a Foreign Key (REGNO) in table (CLASS) to make relationship with a Master/Parent table (STUDENT)? Also write the basic factors to select a field as the Key field (Primary/Foreign). [2]
- k) Write the use of these constraints: NOT NULL , UNIQUE , CHEQUE , PRIMARY KEY , DEFAULT

हिन्दी

१. निम्नलिखित विषय पर अनुच्छेद लिखिए
क: राजनीति और धर्म ख: युवा पीढ़ी और अनुशासन
२. निम्नलिखित प्रश्नों के उत्तर दीजिए
क: चार्ली चैप्लिन की भारत को क्या दें बताई गई है ? स्पष्ट कीजिए
ख: डॉ. अम्बेडकर की कल्पना के आदर्श समाज के तीन बिंदुओं का उल्लेख कीजिए।
ग: ढोलक की आवाज़ का पुरे गाँव पर क्या असर होता था ?
घ: कवि फ़िराक गोरखपुरी निंदा करने वालों को किस रूप में देखते हैं? 'गज़ल शीर्षक के आधार पर उत्तर दीजिए।'
ङ: "सिंधु सभ्यता की खूबी उसका सौंदर्य बोध है , जो राजपोषित या धर्म पोषित न होकर समाज पोषित था" ऐसा क्यों कहा गया है ?
३. निम्नलिखित विषय पर परियोजनात्मक कार्य करे-
"स्वच्छ भारत - स्वस्थ भारत"

नोट - प्रश्न न.-३ को फाइल पेज पर करें

Amrit Public School, Mau

Dussehra Holiday Homework-2018 Class-XII- Commerce Group

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- k) Write the use of these constraints: NOT NULL , UNIQUE , CHECK , PRIMARY KEY , DEFAULT
- l) What is joining of tables, write its“ types? What is Alias using queries on multiple tables? Give example.
- m) Write the uses of GROUP BY and ORDER BY clauses.
- n) How can you restrict user to enter duplicate values in a field?
- o) Differentiate: (i) ALTER & UPDATE tables
- p) Differentiate: (i) Equi Join & Non-Equi Join
- q) Define: COMMIT ROLLBACK SAVEPOINT
- r) What is group function? Give two examples.
- s) How do you make any change permanent in Database?
- t) Differentiate the uses of: DROP & DELETE.

2. Write the USE and OUTPUT of the following library functions (STRING , ARITHMETICAL , DATE):

- A.** (i) CONCAT() (ii) INSTR() (iii) SUBSTR() (iv) LEFT() (v) RIGHT() (vi) TRIM() (vii) LTRIM() / RTRIM()
- B.** (i) ROUND() (ii) POWER() / POW() (iii) TRUNCATE() **C.** (i) DATE() (ii) CURDATE() (iii) NOW() (iv) YEAR() (v) DAYOFMONTH() (vi) MONTHNAME() (vii) MONTH() (viii) DAYNAME() (ix) SYSDATE()

हिन्दी

१. निम्नलिखित विषय पर अनुच्छेद लिखिए
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 "स्वच्छ भारत - स्वस्थ भारत"

नोट - प्रश्न न.-३ को फाइल पेज पर करें

Accountancy

1. Calculate Interest on Capital in the following cases
 A and B are partners in a firm with capital of Rs. 400,000 and 6,00,000 respectively. Interest on capital 9% PA.
 Case1: Profit at the end of year Rs. 300,000
 Case2: Loss at the end of year Rs. 60,000
 Case3: profit at the end of year Rs. 50,000
 Case 4: Partners decided interest on capital against the profit, profit at the end of year Rs. 30,000
2. Calculate new profit sharing ratio:
 Case1: A , b are partner with ratio 2:1, c is admitted, A surrendered ¼ of his share and b surrendered 1/6 of his share in favour of C.

Case2: X, Y are partner with ratio 5:3, Z is admitted 1/6 share which he takes equally from X & Y

3. X, Y and Z are partner their ratio 3:2:1. Z retired his share was taken by X and Y in the ratio 1:1. Goodwill of the firm is valued 600,00. After retirement of Z, X & Y earned profit Rs. 240,000 pass journal entries for G/W and distribution of profit and show your calculation clearly.
4. Calculate the amount of subscription which will be credited to Income & expenditure A/C on 31/03/18.
 - a. Subscription received during the year Rs. 5,60,000
 - b. Subscription O/S on 31/03/2017 Rs. 40,000
 - c. Subscription O/S on 31/03/2018 Rs. 60,000
(Subscription is still arrear for 2017 Rs. 10,000)
 - d. Subscription recived in Adv. On 31/03/2017 Rs. 30,000
 - e. Sub Received in Adv. On 31/03/2018
 Prepare balance sheet of 2017 and 2018 also

5. A,B and c are partners their Balance sheet on 31/03/2018 is as under

Liabilities	Rs.	Assets	Rs.
Creditors	60,000	Cash	5,000
B/P	30,000	Debtors	150,000
G/R	65,000	Furniture	50,000
Investment – Fluctuation Fund	50,000	Stock	1,20,000
		P &M	2,40,000
Workmen Compensation Fund	90,000	L & B	3,00,000
		Goodwill	30,000
Capital		Investment	1,00,000
A	300,000		
B	200,000		
C	100,000		
	9,95,000		9,95,000

B retired on the above date G/W of the firm is Rs. 300,000

Adjustment:

- i. Creditors reduced by 20% and B/P by Rs. 6000.
- ii. Market value of investment reduced by Rs. 20,000
- iii. Claim on workmen compensation is Rs. 30,000 only.
- iv. Rs. 5000 G/R transfer to provision on debtors.
- v. Furniture is undervalued by Rs. 21,000
- vi. Stock is overvalued by Rs. 30,000
- vii. P & M reduced to Rs. 180,000
- viii. L & B increased by 30%

Pass journal entries, prepare revaluation A/C , Partners capital A/C and Balance sheet.

Economics

1. A producer borrows money and starts a business. He himself looks after the business. Identify implicit cost and explicit cost from this information. Explain.
2. A producer starts a business by investing his own savings and hiring the labour. Identify implicit cost and explicit cost from this information. Explain.
3. An individual is both the owner and the manager of a shop taken on rent. Identify implicit cost and explicit cost from this information. Explain.
4. What are the different phases in the behaviour of Total Product in the Law of Variable Proportion? Also give reasons behind the behaviour in each case
5. State giving reasons whether the following statements are true or false.
 - (i) Average Product will increase only when Marginal Product increases.

- (ii) Under diminishing returns to a factor, Total Product continues to increase till Marginal Product reaches zero.
 - (iii) Where there are diminishing returns to a factor, Total Product first increases and then starts falling.
 - (iv) When Marginal Product falls, Average Product will also fall.
 - (v) Total Product always increases whether there is increasing returns or diminishing returns to a factor.
 - (vi) When there are diminishing returns to a factor, Total Product always decreases.
 - (vii) Product will increase only when Marginal Product increases.
 - (viii) Increase in Total Product always indicates that there are increasing returns to a factor.
 - (ix) When there are diminishing returns to a factor, Marginal product and Total Product both fall.
6. State the behaviour of Marginal Product is the Law of Variable Proportions. Explain the causes of this behavior
 7. When the price of a commodity falls by 20% its demand rises from 400 units to 500 units. Calculate its Price Elasticity of Demand.
 8. Explain any two factors that affect the Price Elasticity of Demand. Give suitable examples.
 9. Explain the difference between cardinal utility and ordinal utility. Give example.
 10. Explain the difference between a planned economy and a market economy

Business

1. State any three functions of a supervisor.
2. Malaysian budget airline group Sky Europe announced discounted fares, starting as low as Rs.1,099 for domestic destinations operated by its Indian Joint Venture carrier and Rs.2,099 for international flights operated by other group airlines under a limited period offer. A. Identify the medium of communication which can be used by the firm to inform a large number of people about the new fares. B. Also, state any two merits of the communication tool, apart from the one discussed above.
3. State any three responsibilities that a consumer must keep in mind while purchasing gold jewelry.
4. Having transformed 2500 Kirana stores across eight cities in to virtual super markets, the start up Quick Bizz further decided in advance, to collaborate with 15000-20,000 store owners in top 30 cities of the country by the end of this year. The company has set its eye on digitizing over 1,00,000 kirana stores over next 18-24 months. A. Identify and explain the step in the process of one of the functions of management discussed above. B. Also explain the last step to be performed by Quick Bizz as part of the process.
5. At present, apart from the basic pay and allowances as a part of compensation, the employees and employers contribute 12% of basic wages each towards Employees Provident Fund scheme and Employees Pension Fund scheme. A proposal to reduce the contribution by employers and employees to 10% of basic pay and dearness allowance was listed on the agenda for a recent meeting of Employees Provident Fund Organization held. The stakeholders expressed their reservations about it and they feel that it should be continued at 12%. Explain any two needs as suggested by Maslow's Need Hierarchy Theory, which will not be satisfied by the incentives discussed above.
6. State the first four steps which are involved in the screen-based trading for buying and selling of securities in the secondary market.
7. Bye-Bye Motors recently informed the media about its aim to train up to 4000 people in the next 3 years in the skills associated with automobile industry as part of its program to provide technical and vocational education for unemployed youth. The firm has already started the program in collaboration with Automobile Skill Development Council. This news in the media has helped the firm in promoting its image in the eyes of the public and consumer activist groups.
 - i Why is it important for the company to satisfy the public and the consumer activist groups. Give reasons.
 - ii Which departments in the firm can be given the responsibility to disseminate information and build goodwill of the firm?
8. State any three responsibilities that a consumer must keep in mind while purchasing gold jewelry.