

ECONOMICS

1. Solve all the M.C.Q.'s, Very short answer type questions, Short answer type Questions and Long answer type Questions given at the back side of textbook of all the completed chapters of Macro Economics in a separate assignment copy.
2. Solve the Questions of the concerned topics from Economics Question paper of C.B.S.E. Board Exam in a separate assignment copy?
3. Memories all the important formulas of the concerned topics?
4. Draw all the flow charts/Diagrams from the chapters concerned in a separate assignment copy?
5. Frame atleast 25 different questions from each completed chapters other than those given in textbooks?

HINDI

- 1) परिवार निर्माण में नारी की भूमिका विषय पर लगभग 200 शब्दों में निबंध लिखिए।
- 2) किसी दैनिक समाचार पत्र के संपादक को सड़क दुर्घटनाओं को रोकने के लिए सुझाव देते हुए एक पत्र लिखिए।
- 3) 'गाँव से मजदूरों का पलायन' विषय पर लगभग 150 शब्दों में आलेख लिखिए।
- 4) निम्न में किसी एक विषय पर लगभग 150 शब्दों में अनुच्छेद लिखिए:
 - 1) भारत की सामाजिक समस्याएँ
 - 2) स्वाभिमान चाहिए, अभिमान नहीं
 - 3) विकास के लिए शिक्षा आवश्यक

ENGLISH

1. On behalf of IIT Tutorials, draft a display advertisement to published in the local daily announcing new batches for Engineering Entrance Exams.
2. You are Himani/ Himaksh, the student prefect incharge of the school library of St. Mary's Convent, Nainital. You have ben asked by your Librarian to write a letter placing an order for children's story book (10-13 years) to M/s Sunshine Book Depot Ramnagar, Nainital Invent the necessary details.
3. Every teenager has a dream to achieve something in life. What they are going to become tomorrow depends on what our youth dreams today. Write an article in 1520-200 words on "What I want to be in life." You are Simranjit/Sunita.
4. "Our large population is not a cause of poverty but an asset, a resource." Write a debate in 150-200 words either for or against the motion.
5. Arya Vidya Mandir, Bhavnagar celebrates their Annual Prize Distribution Ceremony to honour the achievers in various curricular activities. Write a report of the ceremony inventing details wherever necessary inventing details. You are Rohit Malhotra.

COMPUTER SCIENCE

1. Write and complete Note Book up to covered syllables.
2. Solve question no. 1 and 7 from sample Question Paper 1 to 5 [SATGE 1]. [Arihant- 15 Sample Question Papers]
3. Run and execute program no 1 to 5.
 - a) Program to display array elements in reverse order.
 - b) Program to find biggest number from the array.
 - c) Program to search any particular element from the array.
 - d) Program to display array elements in ascending order.
 - e) Program to find sum of all elements of Matrix 3x3.

PHYSICS

1. What is the area of the plates of a 2F parallel capacitor, given that the separation between the plates is 0.5 cm? And explain why ordinary capacitors are in the μF or less?
2. Three capacitors of capacitances 2pF, 3pF and 4pF are connected in parallel.
 - (a) What is the total capacitor of the combination?
 - (b) Determine the charge on each capacitor if the combination is connected to a 110 V supply.
3. An electron falls through a distance of 1.5 cm in a uniform electric field of magnitude $2.0 \times 10^4 \text{ N c}^{-1}$ [Fig. 1.13(a)]. The direction of the field is reversed keeping its magnitude unchanged and a proton falls through the same distance [Fig. 1.13(b)]. Compute the time of fall in each case. Contrast the situation with that of 'free fall under gravity'. **(NCERT Example Diagram)**
4. Two charges $5 \times 10^{-8} \text{ C}$ and $-3 \times 10^{-8} \text{ C}$ are located 16 cm apart. At what points on the line joining the two charges is the electric potential is zero? Take the potential at infinity to be zero.
5. A spherical conductor of radius 12 cm has a charge of $1.6 \times 10^{-7} \text{ C}$ distributed uniformly on its surface ,what is the electric field
 - (a) Inside the sphere
 - (b) Just outside the sphere
 - (c) At a point 18 cm from the centre of the sphere?
6. Four equal charge places at the vertices of square of side 5 cm. find the net force of the center of the square of unit positive charge.
7. A point charge $+10 \mu\text{C}$ is at a distance 5cm directly above the centre of a square of side 10 cm as shown in the figure .What is the magnitude of the electric flux through the square?
(NCERT Exercise Diagram)
8. Suppose the spheres A and B each of $6.5 \times 10^{-12} \text{ C}$ have identical sizes .A third sphere of the same size but uncharged is brought in contact with the first, then brought in contact with the second, finally removed from the both. What is the new force of repulsion between A and B?
9. A polythene piece rubbed with wool is found to have a negative charge of $3.2 \times 10^{-6} \text{ C}$
 - (a) Estimate the number of electrons transferred (from which to which?)
 - (b) Is there a transfer of mass from the wool to polythene?
10. Check that the ratio ke^2/Gm^2 is dimensionless .Determine the value of this ratio. What does the ratio signify?
11. An oil drop of 12 excess electrons is held stationary under a constant electric field of 2.55 N/C in Millikan's oil drop experiment .The density of the oil is 1.26 g/cm^3 .Estimate the radius of the drop?
12. Coulomb's law for electrostatic force between two point charges and Newton's law for gravitational force between two stationary point masses, both have inverse-square dependence on the distance between the charges/masses.
 - (a) Compare the strength of these forces by determining the ratio of their magnitudes
 - (i) for an electron and a proton and (ii) for two protons.
 - (b) Estimate the accelerations of electron and proton due to the electrical force of their mutual attraction when they are 1 \AA ($=10^{-10} \text{ m}$) apart? ($M_p = 1.67 \times 10^{-27} \text{ kg}$, $m_e = 9.11 \times 10^{-31} \text{ kg}$)

Project Related Assignment

1. Prepare investigatory file and prepare working model as assign by teacher

ACCOUNTANCY

1. Solve two numericals which includes interest on capital, Salary to the Partners, Interest on drawings regarding any of the cases.
2. Prepare the chart showing the cases regarding interest on drawings.
3. Solve any two questions related with:
 - a. Guarantee of one Partner.
 - b. Guarantee of two Partners.
4. Prepare two numerical which clarifies manager's commission before charging and after charging.
5. Prepare the questions and solve:
 - a. Profit and loss appropriation Account
 - b. Partners capital Accounts in case of fixed capital and fluctuating capitals.

BUSINESS STUDIES

CASE STUDY:-

1. R. Mukherjee has recently joined a company Manufacturing Refrigerators. He found that his department was under staffed and other departments were not co-operating with his department for smooth functioning of the organization..He required number of employees and his cooperation.
 - a. Identify the level at which R. Mukherjee was working.
 - b. Also explain three more functions of questions (a)?
2. XYZ power ltd set up a factory of manufacturing solar lanterns in a remote village as there was no electricity supply in rural areas. The revenue earned by the company was sufficient to cover the cost and the risk. They decided to employ people from the villages and also opened schools.
 - a. Identify and explain the objective of management?
 - b. State any two values.
3. Krishna Automobiles is a leading automobiles company with various departments working with their own objectives ignoring the organizational objectives. Name the values ignored by the departmental heads?
4. "Taylors Techniques" are universally applicable 'Defend or refute'?
5. In a manufacturing unit which is located in the remote area, a labor get 2400 after completing 100 units of product, Another gets 2500 after completing 80 units
 - a. Which principle id violated in the above case?
 - b. State some adverse effects?
 - c. Which values are being overlooked
6. State few values that are taken care of by applying Fayal's principles in management?