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Comprehensive Set of 15 Sample Papers
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Latest CBSE Examination Pattern 2024-25

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(2024-25)

In-depth
Explanations

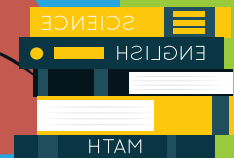
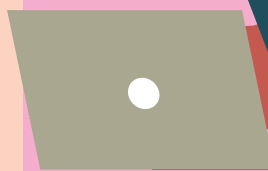
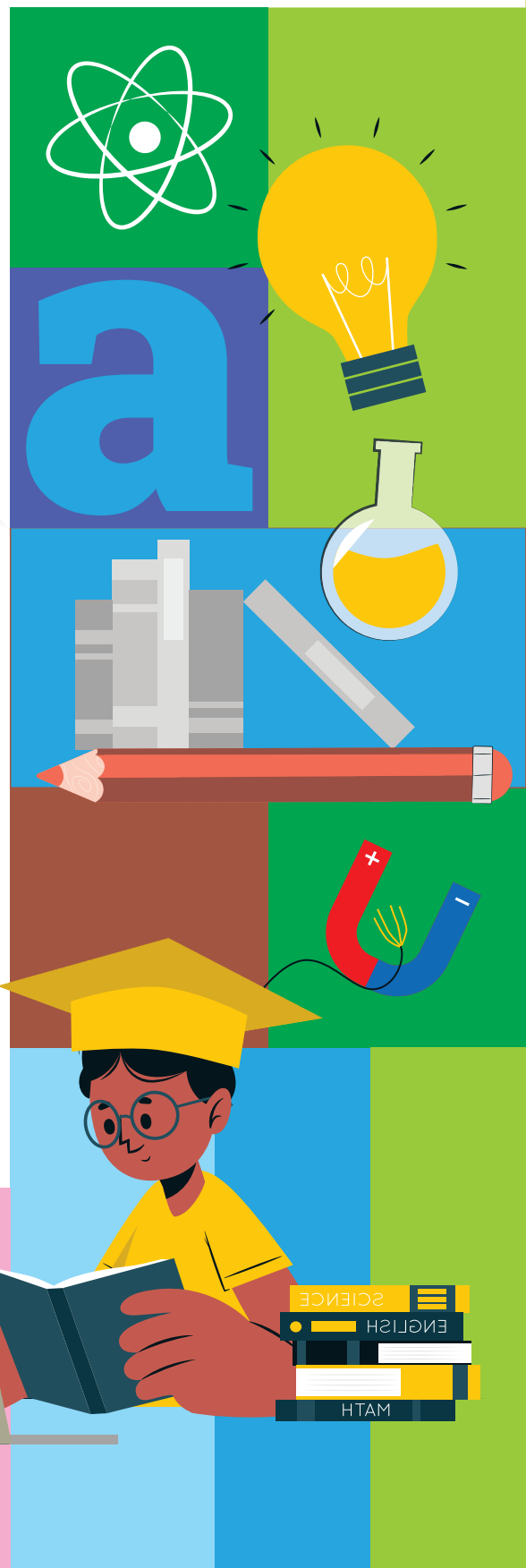
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Series ARSP/01

Set ~ 1

Roll No.

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Q.P Code 15/1/1



Candidates must write the Q.P Code
on the title page of the answer-book.

- Please check that this question paper contains **06** printed pages.
- Q.P. Code given on the right hand side of the question paper should be written on the title page of the answer-book by the candidate.
- Please check that this question paper contains **39** questions.
- **Please write down the serial number of the question in the answer-book before attempting it.**
- 15 Minute times has been allotted to read this question paper. The question paper will be distributed at 10:15 a.m. From 10.15 a.m to 10.30 a.m, the students will read the question paper only and will not write any answer on the answer – book during this period.

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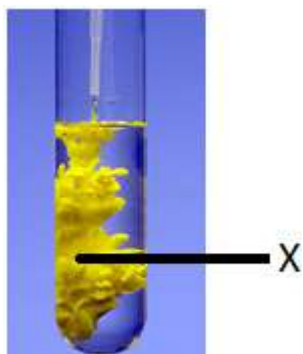
Time allowed: 3 hours

Maximum Marks: 80

1. This question paper consists of 39 questions in 5 sections.
2. All questions are compulsory. However, an internal choice is provided in some questions. A student is expected to attempt only one of these questions.
3. Section A consists of 20 objective-type questions carrying 1 mark each.
4. Section B consists of 6 Very Short questions carrying 02 marks each. Answers to these questions should be in the range of 30 to 50 words.
5. Section C consists of 7 Short Answer type questions carrying 03 marks each. Answers to these questions should be in the range of 50 to 80 words.
6. Section D consists of 3 Long Answer type questions carrying 05 marks each. Answers to these questions should be in the range of 80 to 120 words.
7. Section E consists of 3 source-based/case-based units of assessment of 04 marks each with sub-parts.

Section A

1. The image shows a substance **X** formed when potassium iodide and lead nitrate react together. What is **X**? [1]



- | | |
|---|--|
| <p>a) Lead iodide, Precipitate</p> <p>c) Lead sulphate, Gas</p> | <p>b) No change</p> <p>d) Potassium nitrate, Precipitate</p> |
|---|--|
2. In the electrolysis of water, at which electrodes are hydrogen and oxygen collected? [1]
- | | |
|--|--|
| <p>a) graphite rods, metal rods</p> <p>c) anode, cathode</p> | <p>b) cathode, anode</p> <p>d) graphite rods, non-metal rods</p> |
|--|--|
3. If the pH of a solution is 13, it means that it is [1]
- | | |
|---|---|
| <p>a) Weakly acidic</p> <p>c) Strongly acidic</p> | <p>b) Strongly Basic</p> <p>d) Weakly basic</p> |
|---|---|

4. IUPAC names of a few esters are given below: [1]

- i. Ethyl propanoate
- ii. Propyl methanoate
- iii. Methyl butanoate
- iv. Ethyl butanoate

The ester(s) which contain(s) ten hydrogen atoms per molecule is/are

- a) (i) and (ii) only
- b) (iv) only
- c) (i) and (iii) only
- d) i only

5. Aqueous solutions of zinc sulphate and iron sulphate were taken in test tubes I and II by four students A, B, C and D. Metal pieces of iron and zinc were dropped in the two solutions and observations made after several hours were recorded in the form of table as given below: [1]

Student	Metal	Solution	Colour change of solution	Deposit/Coating obtained
A	Fe	ZnSO ₄	Turned green	Silvery grey coating
	Zn	FeSO ₄	No change	No change
B	Fe	ZnSO ₄	No change	Black deposit
	Zn	FeSO ₄	Colour faded	Grey coating
C	Fe	ZnSO ₄	No change	No change
	Zn	FeSO ₄	Turned colourless	Black deposit
D	Fe	ZnSO ₄	No change	Grey deposit
	Zn	FeSO ₄	No change	Black deposit

The correct reporting has been made in observations:

- a) Student A
- b) Student C
- c) Student D
- d) Student B

6. A metal X is used in thermite process. When X is burnt in air it gives an amphoteric oxide Y. X and Y are respectively: [1]

- a) Fe and Fe₃O₄
- b) Al and Al₂O₃
- c) Fe and Fe₂O₃
- d) Al and Al₂O₃

7. Structural formula of ethyne is [1]

- a) H - C \equiv C - H
- b) 
- c) H₃ - C \equiv C - H
- d) 

8. Which of these reactions occurs during photosynthesis? [1]

- a) Carbon dioxide and water are both oxidized
- b) Water is reduced and carbon dioxide is oxidized
- c) Carbon dioxide and water are both reduced
- d) Carbon dioxide is reduced and water is oxidized

9. The branch of biology-related with heredity and variation is called [1]

- a) Livinglogy
- b) Genetics

- c) Evolution d) Taxonomy
10. Select the STD caused by bacteria among the following. [1]
- a) Giardiasis b) Hepatitis-B
c) Genital herpes d) Syphilis
11. For evolution to occur in a population, which of the following must happen? [1]
- i. The frequencies of some alleles in an organism's genotypes must change during its lifetime.
ii. The frequencies of each allele in an organism's genotype must remain constant within its lifetime.
iii. The frequencies of some alleles in a population's gene pool must change over successive generations.
iv. The frequencies of each allele in a population's gene pool must remain constant over successive generations.
- a) Statement (iii) is correct. b) Statement (vi) is correct.
c) Statement (ii) is correct. d) Statement (i) is correct.
12. A few drops of iodine solution were added to rice water. The solution turned blue-black in colour. This indicates that rice water contains [1]
- a) Simple proteins b) Fats
c) Starch d) Complex proteins
13. The process of inducing a current in a coil of wire by placing it in a region of changing magnetic field is: [1]
- a) Electrical effect b) Magnetic effect of current
c) Electromagnetic induction d) Heating effect of current
14. What is the current in a circuit if the charge passing each point is 20 C in 40 s? [1]
- a) 0.5 C b) 0.5 A
c) 0.2 A d) 0.2 C
15. What will happen if the deer are missing in the following food chain? [1]
- Grass → Deer → Tiger
- a) The population of tigers will increase b) The tigers will die
c) The tigers will start eating grass d) The amount of grass will decrease
16. Which of the following groups contain only biodegradable items? [1]
- a. Grass, flowers and leather
b. Grass, wood and plastic
c. Fruit peels, cake and lime-juice
d. Cake, wood and grass
- a) Groups (a), (c) and (d) b) Groups (a), (b) and (c)
c) Groups (a), (b) and (d) d) Groups (b), (c) and (d)
17. **Assertion (A):** Rusting of iron metal is the most common form of corrosion. [1]
Reason (R): The effect of rusting of iron can be reversed if they are left open in sunlight.
- a) Both A and R are true and R is the correct explanation of A. b) Both A and R are true but R is not the correct explanation of A.

- c) A is true but R is false. d) A is false but R is true.
18. **Assertion (A) :** Non flowering plants cannot reproduce sexually. [1]
Reason (R) : Flower is only reproductive part of the plant that can produce gametes.
- a) Both A and R are true and R is the correct explanation of A. b) Both A and R are true but R is not the correct explanation of A.
c) A is true but R is false. d) A is false but R is true.
19. **Assertion (A):** The strength of the magnetic field produced at the centre of a current-carrying circular coil increases on increasing the current flowing through the coil. [1]
Reason (R): Magnetic field strength is inversely proportional to the current flowing in the coil.
- a) Both A and R are true and R is the correct explanation of A. b) Both A and R are true but R is not the correct explanation of A.
c) A is true but R is false. d) A is false but R is true.
20. **Assertion (A):** Flow of energy in a food chain is unidirectional. [1]
Reason (R): Energy captured by autotrophs does not revert back to the solar input and it passes to the herbivores.
- a) Both A and R are true and R is the correct explanation of A. b) Both A and R are true but R is not the correct explanation of A.
c) A is true but R is false. d) A is false but R is true.

Section B

21. Classify the following compounds as alkanes, alkenes and alkynes: C_2H_4 , C_3H_4 , C_4H_8 , C_5H_{12} , C_5H_8 , C_3H_8 , C_6H_6 [2]
22. a. Budding, fragmentation and regeneration, all are considered as asexual mode of reproduction. Why? [2]
b. With the help of neat diagrams, explain the process of regeneration in Planaria.
23. i. State the role of ATP in cellular respiration. [2]
ii. What ensures sufficient exchange of gases in plants?
iii. State the conditions on which the direction of diffusion of gases in plant depend upon.

OR

Why does leaf appears green?

24. The refractive index of a medium x with respect to a medium y is $\frac{2}{3}$ and the refractive index of medium y with respect to medium z is $\frac{4}{3}$. Find the refractive index of medium z with respect to medium x. If the speed of light in medium x is $3 \times 10^8 \text{ ms}^{-1}$, calculate the speed of light in medium y. [2]
25. Mention the ecologically amplified elements that lead to the decline in population of predator birds. [2]

OR

Give some methods that could be applied to reduce our intake of pesticides.

26. A person is unable to see clearly a poster fixed on a distant wall. He however sees it clearly when standing at a distance of about 2 m from the wall. [2]
- a. Draw ray diagram to show the formation of image by his eye lens when he is far away from the wall.
b. List two possible reasons of this defect of vision.
c. Draw ray diagram to show the correction of this defect using appropriate lens.

Section C

27. What would happen to copper vessel if it is left for a few days in humid atmosphere without being cleaned? [3]
28. (i) Name a metal for each case: [3]
- (a) It does not react with cold as well as hot water but reacts with steam.
- (b) It does not react with any physical state of water.
- (ii) When calcium metal is added to water the gas evolved does not catch fire but the same gas evolved on adding sodium metal to water catches fire. Why is it so?
- OR
- State three reasons for the following facts:
- i. Sulphur is a non-metal.
- ii. Magnesium is a metal.
- One of the reasons must be supported with a chemical equation.
29. "If there were no algae there would be no fish in the sea." Comment. [3]
30. In pea plant, round seed is dominant over the wrinkled. If a cross is carried out between these two plants, give answer to the following questions. [3]
- i. Mention the genes for the traits of parents.
- ii. State the trait of F_1 hybrids.
- iii. Write the ratio of F_2 progeny obtained from this cross. What is the name of the cross?
31. Distinguish between real image and virtual image. [3]
32. Derive the relation between kilowatt hour and joule. [3]
33. i. A hot plate of an electric oven connected to a 220 V line has two resistance coils A and B, each of 24Ω resistance, which may be used separately, in series, or in parallel. What are the currents in the three cases? [3]
- ii. Calculate the resistance of an electric bulb that allows a 10A current when connected to a 220V power source?

Section D

34. Describe the addition reaction of carbon compounds with its application. State the function of catalyst in this reaction. How this reaction is different from a substitution reaction? Explain with an example. [5]
- OR
- i. Butane had both Carbon - Carbon bonds as well as Carbon Hydrogen bonds. Draw its structural formula and state the number of (1) C - H bonds and (2) C - C bonds in it.
- ii. You have two carbon compounds with the molecular formula C_3H_6O . Name two compounds with this formula and also draw their structural formula.
35. a. Name the parts of a bisexual flower that are not directly involved in reproduction. [5]
- b. Differentiate between self pollination and cross pollination. List any two significance of pollination.
- c. What is the fate of ovules and ovary after fertilization in a flower?
- OR
- Why do we call pituitary gland as the master gland? Where is it located and what are its functions?
36. Differentiate between a concave mirror and a convex mirror. [5]
- OR
- a. Draw a ray diagram for showing the convergence of a parallel beam of light by a concave mirror and mark the positions of pole and the centre of curvature in it.

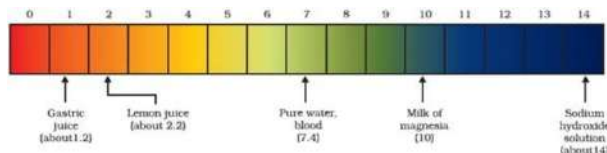
- b. An object 4 cm in size is placed at 25 cm in front of a concave mirror of focal length 15 cm. At what distance from the mirror should a screen be placed in order to obtain a sharp image? Find the nature and size of the image.
- c. List any two uses of a concave mirror.

Section E

37. Read the following text carefully and answer the questions that follow:

[4]

The strength of acid and base depends on the number of H^+ and the number of OH^- respectively. If we take hydrochloric acid and acetic acid of the same concentration, say one molar, then these produce different amounts of hydrogen ions. Acids that give rise to more H^+ ions are said to be strong acids, and acids that give less H^+ ions are said to be weak acids. Can you now say what weak and strong bases are?



- Fresh milk has a pH of 6. How do you think the pH will change as it turns into curd? (1)
- Is Gastric juice a weak acid? (1)
- Milk of magnesia is an acid or base? For what purpose it can be used? (2)

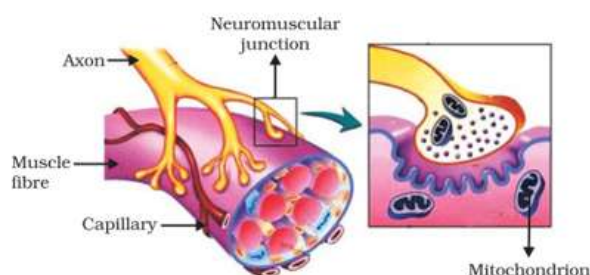
OR

What is the pH value of saliva after the meal? (2)

38. Read the following text carefully and answer the questions that follow:

[4]

In animals, control and coordination are provided by nervous and muscular tissues. Touching a hot object is an urgent and dangerous situation for us. We need to detect it and respond to it. How do we detect that we are touching a hot object? All information from our environment is detected by the specialised tips of some nerve cells. These receptors are usually located in our sense organs, such as the inner ear, the nose, the tongue, and so on. So gustatory receptors will detect taste while olfactory receptors will detect the smell. This information, acquired at the end of the dendritic tip of a nerve cell sets off a chemical reaction that creates an electrical impulse. This impulse travels from the dendrite to the cell body, and then along the axon to its end. At the end of the axon, the electrical impulse sets off the release of some chemicals. These chemicals cross the gap, or synapse, and start a similar electrical impulse in the dendrite of the next neuron. This is a general scheme of how nervous impulses travel in the body. A similar synapse finally allows the delivery of such impulses from neurons to other cells, such as muscles cells or glands.



- Why does the flow of signals in a synapse from axonal end of one neuron to dendritic end of another neuron take place but not in the reverse direction? (1)
- From where the electrical impulse travels? (1)
- Name the chemical which released at the end of axon to transmit the signal to the other neuron. (2)

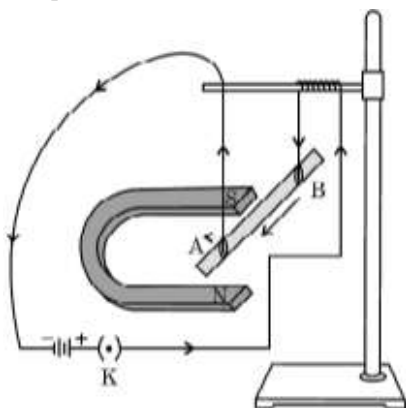
OR

What happens at the synapse between 2 neurons? (2)

39. A student was asked to perform an experiment to study the force on a current carrying conductor in a magnetic

[4]

field. He took a small aluminum rod AB, a strong horse shoe magnet, some connecting wires, a battery and a switch and connected them as shown. He observed that on passing current, the rod gets displaced. On reversing the direction of current, the direction of displacement also gets reversed. On the basis of your understanding of this phenomenon, answer the following questions:



- i. Why does the rod get displaced on passing current through it? (1)
- ii. State the rule that determines the direction of the force on the conductor AB. (1)
- iii. a. If the U shaped magnet is held vertically and the aluminum rod is suspended horizontally with its end B towards due north, then on passing current through the rod from B to A as shown, in which direction will the rod be displaced?
- b. Name any two devices that use current carrying conductors and magnetic field. (2)

OR

Draw the pattern of magnetic field lines produced around a current carrying straight conductor held vertically on a horizontal cardboard. Indicate the direction of the field lines as well as the direction of current flowing through the conductor. (2)



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SKILL MODULES BEING OFFERED IN MIDDLE SCHOOL



Artificial Intelligence



Beauty & Wellness



Design Thinking & Innovation



Financial Literacy



Handicrafts



Information Technology



Marketing/Commercial Application



Mass Media - Being Media Literate



Travel & Tourism



Coding



Data Science (Class VIII only)



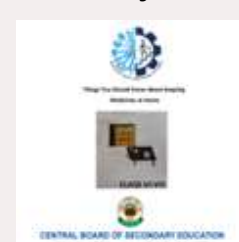
Augmented Reality / Virtual Reality



Digital Citizenship



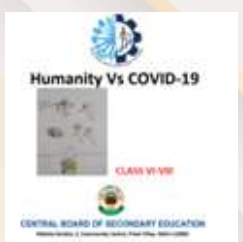
Life Cycle of Medicine & Vaccine



Things you should know about keeping Medicines at home



What to do when Doctor is not around



Humanity & Covid-19



Blue Pottery



Pottery



Block Printing



Food



Food Preservation



Baking



Herbal Heritage



Khadi



Mask Making



Mass Media



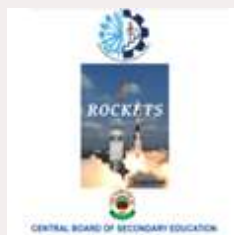
Making of a Graphic Novel



Kashmiri Embroidery



Embroidery



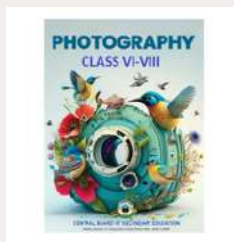
Rockets



Satellites



Application of Satellites



Photography

SKILL SUBJECTS AT SECONDARY LEVEL (CLASSES IX – X)



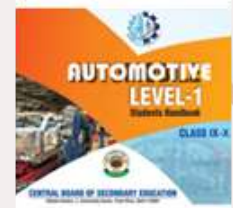
Retail



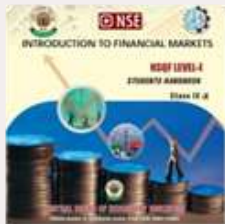
Information Technology



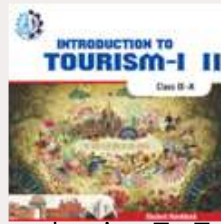
Security



Automotive



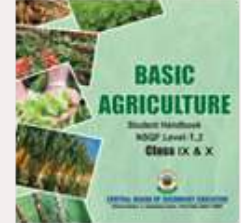
Introduction To Financial Markets



Introduction To Tourism



Beauty & Wellness



Agriculture



Food Production



Front Office Operations



Banking & Insurance



Marketing & Sales



Health Care



Apparel



Multi Media



Multi Skill Foundation Course



Artificial Intelligence



Physical Activity Trainer



Data Science



Electronics & Hardware (NEW)



Foundation Skills For Sciences (Pharmaceutical & Biotechnology)(NEW)

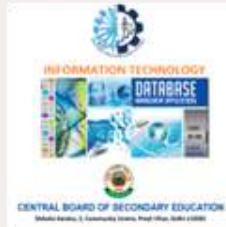


Design Thinking & Innovation (NEW)

SKILL SUBJECTS AT SR. SEC. LEVEL (CLASSES XI – XII)



Retail



Information Technology



Web Application



Automotive



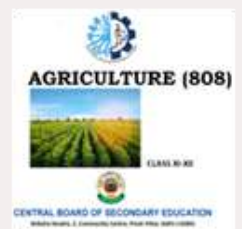
Financial Markets Management



Tourism



Beauty & Wellness



Agriculture



Food Production



Front Office Operations



Banking



Marketing



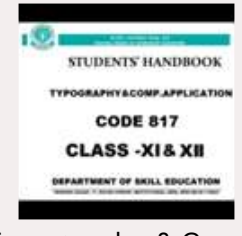
Health Care



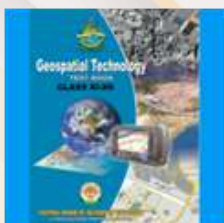
Insurance



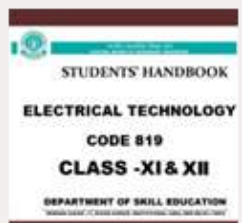
Horticulture



Typography & Comp.
Application



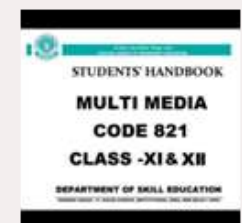
Geospatial Technology



Electrical Technology



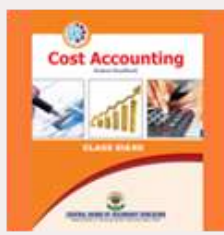
Electronic Technology



Multi-Media



Taxation



Cost Accounting



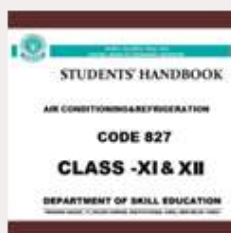
Office Procedures & Practices



Shorthand (English)



Shorthand (Hindi)



Air-Conditioning & Refrigeration



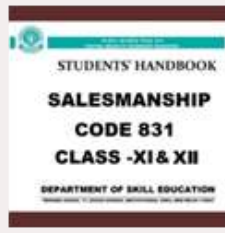
Medical Diagnostics



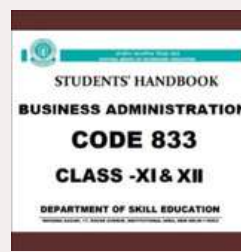
Textile Design



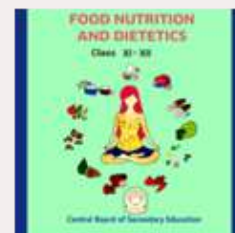
Design



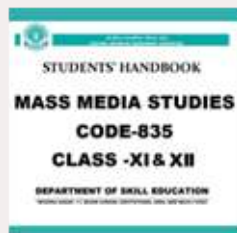
Salesmanship



Business Administration



Food Nutrition & Dietetics



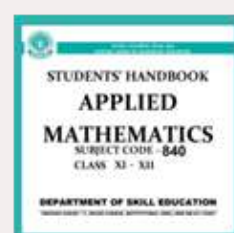
Mass Media Studies



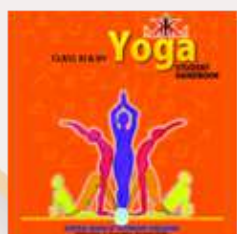
Library & Information Science



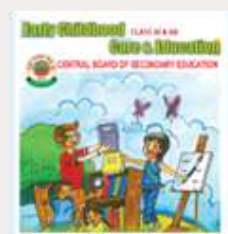
Fashion Studies



Applied Mathematics



Yoga



Early Childhood Care & Education



Artificial Intelligence



Data Science



Physical Activity Trainer (new)



Land Transportation Associate (NEW)



Electronics & Hardware (NEW)



Design Thinking & Innovation (NEW)

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Class 4



Class 5



Class 6



Class 7



Class 8



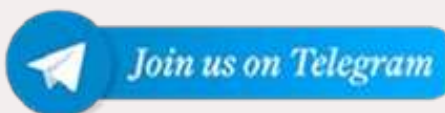
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Class 11 (Com)



Class 11 (Hum)



Class 12 (Sci)



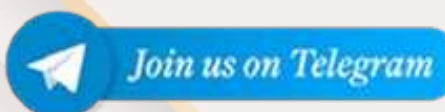
Class 12 (Com)



Class 12 (Hum)



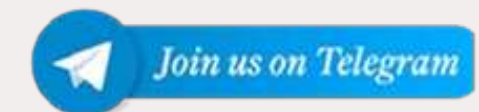
JEE/NEET



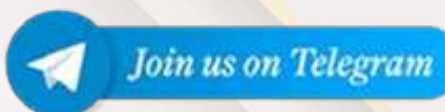
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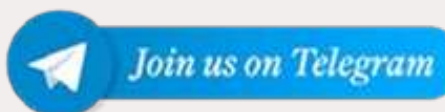


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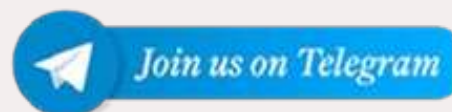
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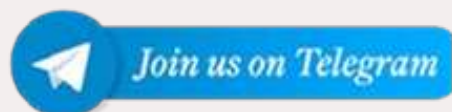
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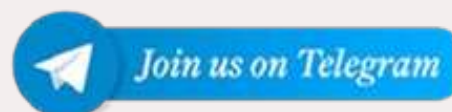
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Class 3



Class 4



Class 5



Class 6



Class 7



Class 8



Class 9



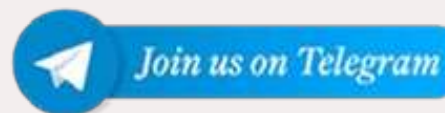
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Class 11 (Com)



Class 11 (Hum)



Class 12 (Sci)



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