PLAN! PRESENTATION!!!

PUBLIC EXAM 10 SCIENCE EXAM STUDY PLAN 2021-22

May be CLASS: X SCIENCE

- > 5-10% GOVT PUBLIC EXAM PREVIOUS YEAR QUESTION PAPER SEPTEMBER 2020(S20), SEPTEMBER 2021(S21).
- > 3-10% TAMIL NADU STATE TEACHER PARENTS ASSOCIATION 2019-20 PTA 1-6Ouestion paper (PTA).
- > 5-10% first revision question paper 2022, second revision question paper 2022.
- > 30-40% Prepare well BOOK BACK- ONEWORD, QUESTION ANSWER
- > 40-50% creative questions Text book inside

Prepare well BOOK BACK, PTA & ONEWORD & QA, PTA MODEL Question paper, Revision exams I &II. PUBLIC OUESTIONS.

Aim: Centum Marks, Study 114 Marks, Write 75 Marks.

DAY	1 PF	IYSICS 24-05-2022	TUESDAY
SN	TIME	LESSON	REMARKS
1	2-3 PM	LESSON 1 BOOK READ, 1 mark BB & PTA 1-6	
2	3-4PM	2 mark, 4 mark, 7 mark & ACTC question Bank	
3	4-5 PM	LESSON 2 BOOK READ, 1 mark BB & PTA 1-6	
4	5-6 PM	2 mark, 4 mark, 7 mark & ACTC question Bank	
5	6-7 PM	LESSON 3 BOOK READ, 1 mark BB & PTA 1-6	
6	7-8 PM	2 mark, 4 mark, 7 mark & ACTC question Bank	
7	8-9 PM	LESSON 4 BOOK READ, 1 mark BB & PTA 1-6	
8	9-10 PM	2 mark, 4 mark, 7 mark & ACTC question Bank	
9	10-11PM	PROBLEM LESSON 1-4	
DAY 2 PHYSICS , CHEMISTRY & BIOLOGY 25-05-20202 WEDNESDAY			
SN	TIME	LESSON	
1	5-6 AM	LESSON 5 BOOK READ, BB & PTA QA, 1, 2, 4, 7 mark & AC	
2	6-7 AM	LESSON 6 BOOK READ, BB & PTA QA, 1, 2, 4, 7 mark & AC	TC question Bank
3	7-8 AM	LESSON 7 BOOK READ, BB & PTA QA, 1, 2, 4, 7 mark & ACT	ΓC question Bank
4	8-9 AM	LESSON 8 BOOK READ, BB & PTA QA, 1, 2, 4, 7 mark & AC	TC question Bank
5	9-10 AM	LESSON 9 BOOK READ, BB & PTA QA, 1, 2, 4, 7 mark & AC	TC question Bank
6	10-11 AM	LESSON 10 BOOK READ , BB & PTA QA, 1, 2, 4, 7 mark & A (CTC question Bank
7	11- 12PM	LESSON 11 BOOK READ, BB & PTA QA, 1, 2, 4, 7 mark & A (CTC question Bank
8	12-1 PM	LESSON 11 IUPAC NAME, EQUATIONS	
9	1-2 PM	REVISE PHYSICS, CHEMISTRY PROBLEM	
10	2- 3 PM	LESSON 12 BOOK READ, BB & PTA QA, 1, 2, 4, 7 mark & AC	TC question Bank
11	3-4 PM	LESSON 14 BOOK READ, BB & PTA QA, 1, 2, 4, 7 mark & AC	TC question Bank
12	4-5 PM	LESSON 16 BOOK READ, BB & PTA QA, 1, 2, 4, 7 mark & AC	TC question Bank
13	5-6 PM	LESSON 17 BOOK READ, BB & PTA QA, 1, 2, 4, 7 mark & AC	TC question Bank
14	6-7 PM	LESSON 18 BOOK READ, BB & PTA QA, 1, 2, 4, 7 mark & AC	TC question Bank
15	7-8 PM	LESSON 19 BOOK READ, BB & PTA QA, 1, 2, 4, 7 mark & AC	TC question Bank
16	8-9 PM	LESSON 20 BOOK READ, BB & PTA QA, 1, 2, 4, 7 mark & AC	TC question Bank
17	9-10 PM	LESSON 21 BOOK READ, BB & PTA QA, 1, 2, 4, 7 mark & AC	TC question Bank
18	10-11 PM	LESSON 22 BOOK READ, BB & PTA QA, 1, 2, 4, 7 mark & AC	TC question Bank
DAY 3 REVISION 26-05-2022 THURSDAY EXAM DAY			
SN	TIME	LESSON	REMARKS
1	4-5 AM	REVISION PHYSICS, PROBLEM, ONE MARK	
2	5-6 AM	REVISION CHEMISTRY, PROBLEM, EQUATION, ONE MARK	
3	6- 7AM	REVISION BIOLOGY, DIAGRAM, ONE MARK	
4	8:30-9:30	ONE MARK REVISION	
		ALL THE BEST SCORE CENTUM MARKS	

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ACTC SCIENCE COACHING CENTRE, 41/1-PWD ROAD, NAGERCOIL 9940847892

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FORGET THE REST!!!

WE WISH U ALL THE BEST

ACTC

ADVANCED CHEMISTRY TUITION CENTRE

41/1, PWD ROAD, NEAR PARTHAS, NAGERCOIL. 9940847892, 9487762892

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+1, +2 CHEMISTRY & X SCIENCE

E.MUTHUSAMY

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2022-23 CLASS 10 SCIENCE CLASS STARTS FROM 1-06-2022 WEDNESDAY

2022-23 +2 BATCH CHEMISTRY CLASS STARTS FROM 2-06-2022 THURSDAY

2022-23 +1 BATCH CHEMISTRY CLASS STARTS FROM 16-06-2022 THURSDAY

REDUCED SYLLABUS 10 SCIENCE 2021-22

CLASS 10 SCIENCE QUESTION BANK 2022

(WITH TEXT ROOK PACE NUMBER)

Question Bank from

- > GOVT PUBLIC EXAM PREVIOUS YEAR QUESTION PAPER SEPTEMBER 2020(S20), SEPTEMBER 2021(S21).
- Text book inside

QUESTION PATTERN

PART –I choose the correct answer 1 mark 12x1=12

PART- II Answer any seven questions (10) 2 mark 7 x2=14 QNo:22 compulsory

PART-III Answer any seven questions (10) 4 mark 7 x4=28 ONo:32 compulsory

PART- IV Answer ALL questions (6) 7 mark 3 x7=21 within choice

TOTAL 75MARKS 75/114

CLASS 10 SCIENCE REDUCED SYLLABUS 2022

IMPORTANT QUESTION BANK (TEXT BOOK INSIDE)

& PREVIOUS YEAR GOVT PUBLIC QUESTIONS
SEPTEMBER 2020 & SEPTEMBER 2021

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PRESENTATION!!!

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PLAN! PREPARE!! **UNIT 1 LAWS OF MOTION**

PHYSICS

- What is mechanics? Explain its branches.(2)
- 2. Define inertia.(2)
- 3. What are the types of inertia.(2)
- Give any two examples of inertia.(2)
- 5. Define linear momentum.(3)
- 6. Stat Newton's law of motion. (3,6,7) S21 7 MARK
- State Newton's first law. (3)
- 8. What is meant by force.(3)
- What are the types of forces? (3) 9.
- 10. Define resultant force. (3)
- 11. State Newton's second law of motion.(6)
- Deduce the equation of a force using Newton's second law of motion. (6) 12.
- Define 1 newton (N). (6) 13.
- 14. State Newton's Third law of motion. (7)
- Give any two examples of Newton's law of motion.(7) 15.
- 16.Describe rocket propulsion. (8) **S20 4MARK**
- 17. State Newton's universal law of gravitation. (8)
- & Study well book Evaluation. 18.Differentiate mass and weight. (10)

UNIT 2 OPTICS

- 1. Explain the properties of light? (16)
- 2. Define refraction of light. (17)
- 3. State First law of refraction. (17)
- 4. State second law of refraction. Snell's law (17)
- 5. Define dispersion of light. (17)
- 6. Define lens. (19)
- 7. What are the types of lens?(basic classification) (19)
- 8. What is meant by Plano-convex lens? (19)
- 9. What is meant by Plano-concave lens? (19)
- 10. Explain images formed due to refraction through a convex and concave lens. (20)
- 11.Draw formation of images by a convex lens when the objects is placed at infinity, beyond C, at C, between F and C, Principal focus F, Between the principal focus F and optical centre O(20)
- 12. Draw formation of images by a concave lens when the **objects is placed** at infinity, Object anywhere on the principal axis at a finite distance(21,22)
- 13. What are the applications of convex lenses? (Any two) (21)
- 14. What are the applications of concave lenses? (Any two) (22) **S21 7 MARK ii**
- 15. Write Lens formula. (22)
- 16.Explain sign convention. (22)

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- 17.Draw structure of the human eye.(24)
- 18. Explain defects in eye? (25)
- 19. Differentiate the eye defects: Myopia and Hypermeteropia. (25) S21 7 MARK i
- 20.A beam of light passing through a diverging lens of focal length 0.3m appear to be focused at a distance 0.2m behind the lens. Find the position of the object.(28) **S20 2mark compulsory** & Study well book Evaluation.

UNIT 3 THERMAL PHYSICS

- 1. Define temperature. (32)
- 2. Define absolute temperature. (32)
- B. Define thermal equilibrium. (33)
- 4. Define thermal energy. (33)
- 5. What are the characteristics features of heat energy transfer? (33)
- 6. Define Calorie. (34)
- 7. Define kilocalorie. (34)
- 8. State Boyle's law & formula (36)
- 9. State Charles's law & formula (37)
- 10.State Avogadro's law & formula (37)
- 11. What is real gas? (37)
- 12. What is ideal gas? (37)

& Study well book Evaluation.

4. ELECTRICITY

- 1. Define electric current. SI unit of current. (42,43)
- 2. A charge of 12 coulomb flows through a bulb in 5 second. What is the current through the bulb?(43) **S21 4MARK ii**
- B. Define ampere. (43)
- 4. Symbols of some components of a circuit. (43)
- 5. Write the symbol for the following component **S21 4MARK i** i)ground connection ii)Resistor iii) Light emitting diode iv) A diode
- 5. Define electric potential & SI unit.(44)
- 7. Define electric potential difference.(44)
- 8. Define volt. (44)
- 9. The work done on moving a charge of 10 C across two points in a circuit is 100J. What is the potential difference between the points?(44)
- 10. State Ohm's law.(45)
- 11.Define resistance of a conductor & SI Unit(45)
- 12. Calculate the resistance of a conductor through which a current of 2A passes, when the potential difference between its ends is 30V.(46)
- 13. Define electrical resistivity. (46)
- 14. Define electrical conductivity. (46)

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- 15. The resistance of a wire of length 10m is 2 ohm. It the area of cross section of the wire is 2 x 10^{-7} m², determine its (i) resistivity (ii) conductance. (47)
- 16. State Joule's law of heating. (50)
- 17.An electric heater of resistance 50hm is connected to an electric source. If a current of 6A flows through the heater, then find the amount of heat produced in 5 minutes.(51)
- 18.Define electric power& SI unit(51)
- 19. What are the factors of consumption of electricity.(51) & Study well book Evaluation.

UNIT 5 ACOUSTICS

- 1. Define acoustics? (59)
- 2. What is a longitudinal wave? (60)
- 3. Write note on Audible waves. (60)
- 4. Write note on infrasonic waves. (60)
- 5. Write note on Ultrasonic waves. (60)
- 6. Difference between sound and light. (60)
- 7. Define reflection of sound. (62)
- 8. State law of reflection (62)
- 9. Explain the reflection at the boundary of a denser medium. (63)
- 10. Explain the reflection at the boundary of a rarer medium. (63)
- 11.Explain the reflection at curved surfaces. (63)
- 12. Define Echoes. (64)
- 13. What are the conditions necessary for hearing echo? (64)
- 14. What are the application echoes? (64) Medical application S20 4MARK ii
- 15. When a sound wave travels through air, the air particles------BB(70) S21 2MARK
 - a) vibrate along the direction of the wave motion b) vibrate but not in any fixed direction c) vibrate perpendicular to the direction of the wave motion d) do not vibrate
- 16.i) What is the audible range of frequency? BB 71 S21 2MARK i
 - ii) what is the minimum distance needed for an echo? BB 71 S21 2MARKii

UNIT 6 NUCLEAR PHYSICS

- 1. Define radioactivity.(75)
- 2. Define natural radioactivity. (75)
- 3. Define artificial radioactivity or induced radioactivity (75)
- 4. Difference between natural radioactivity and artificial radioactivity. (76)
- 5. Define curie(76)
- 6. Define Rutherford. (76)
- 7. Define Becqurel. (76)
- 8. Define Roentgen(76)
- 9. Compare the properties of alpha, beta and gamma radiations. (77) **S20 7MARK**
- 10. Write note on alpha decay. (78)
- 11. Write note on Beta decay. (78)

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- 12. Write note on Gamma decay. (78)
- 13. What is meant by Dosimeter. (83)
- 14.Explain the uses of radioactivity in agriculture, medicine, industries, Archeological research.(83)
- 15. Write note on permitted range. (83)
- 16. Write note on prevent measures of radioactivity. (84)
- 17.₉₂U²³⁵ experiences one α-decay and one β-decay. Find number of neutrons in the final daughter nucleus that is formed. (85) **S21 4MARK compulsory**

& Study well book Evaluation.

PREPARE WELL PHYSICS PROBLEM QUESTION EXAMPLE, EXCERISE

CHEMISTRY

UNIT 7 ATOMS AND MOLECULES

- 1. State the findings of modern atomic theory. (91) **S20 7MARKi**
- 2. Define mass number. (92)
- B. Define amu. (92)
- 4. Define relative atomic mass. (92)
- 5. Define gram atomic mass. Give an example, (93)
- 6. Define molecule. (94)
- 7. Explain classification of molecules. (94)
- 8. Define atomicity. (94) **S21 4MARK i**
- 9. Classify the following molecules based on their atomicity. (95)
 - Fluorine (F_2) , Carbon dioxide (CO_2) , Phosphorous (P_4) , Sulphur (S_8) , Ammonia (NH_3) , Hydrogen iodide (HI), Sulphuric Acid (H_2SO_4) , Methane (CH_4) , Glucose $(C_6H_{12}O_6)$, Carbon monoxide (CO).
- 10. Differentiate atom and molecule give an example. (96)
- 11.State Avogadro's law & mathematical expression. Give an example(98) **S21 2MARK** compulsory **S20 7MARK** ii
- 12. Explain the application of Avogadro's law. (99)
- 13. Find the gram molecular mass of the following from the data given: (99)
 - (i) H_2O (ii) CO_2 **S21 4MARK ii** (iii) $Ca_3(PO_4)_2$
- 14. Define isotopes. Give an example. (102)
- 15.Define isotones. Give an example.(102)
- 16.Define isobars. Give an example.(102) & Study well book Evaluation.

UNIT 8 PERIODIC CLASSIFICATION OF ELEMENTS

- 1. State modern periodic law. (107)
- 2. What is meant by modern periodic table.(107)
- 3. Explain the features of Periods in modern periodic table.(107)
- 4. Explain the features of Groups in modern periodic table. (109)

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5. Explain the physical properties of metals (114)

- 5. Explain the physical properties of metals.(114)
- 6. Explain the chemical properties of metals.(114)
- 7. What is an alloy? (119)
- 8. What is an amalgam? (119)
- 9. What are reasons for alloying? (119)
- 10. Write the methods of making alloys. (119)
- 11. Why alloys as solid solutions. (119)
- 12. What are the types of alloys? (119)
- 13. Write the copper alloy and its uses. (119)
- 14. Write the aluminium alloys and its uses. (119)
- 15. Write the Iron alloys and its uses. (119)
- 16. What is corrosion? (119)
- 17. Explain methods of preventing corrosion.(120) **S21 4MARK ii** (2methods)

& Study well book Evaluation.

UNIT 9 SOLUTIONS

- 1. Define solution.(125)
- 2. Define solute & solvent. (125)
- 3. Define dissolution. (125)
- 4. Define binary solution. (125)
- 5. Define ternary solution.(125)
- 6. Explain types of solution based on the physical state of the solute and the solvent.(126) (Types of binary solutions)
- 7. What are the types of solution based on the type of solvent.(126)
- 8. Define aqueous solution and example. (126)
- 9. Define non-aqueous solution and example. (126)
- 10. What are the types of solution based on the amount of solute. (126)
- 11. Define saturated solution and example. (126)
- 12. Define unsaturated solution and example. (127)
- 13. Define super saturated solution and example. (127)
- 14. Define concentrated solution and dilute solution. (127)
- 15. Define water of crystallization. & hydrated salts (130)
- 16. Give an example of Hydrated salts. (130)
- 17. Explain the action of blue vitriol and Epsom salt. (130)
- 18. Define Hygroscopy. Give an example of hygroscopic substances. (131)
- 19. Define Deliquescence. Give an example of Deliquescence. (131)
- 20.Explain hygroscopic substances and deliquescent substances with examples. (131) **S21 7MARK**
- 21. Difference between hygroscopic substances and deliquescence. (131) & Study well book Evaluation.

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UNIT 10 TYPES OF CHEMICAL REACTIONS

- 1. What happens during a chemical reaction? (138)
- 2. Define balanced chemical equation and example.(138)
- 3. What are types of chemical reactions based on the nature of rearrangements of atoms? (139)
- 4. Define combination reaction and example.(139)
- 5. What are classes of combination reaction and Give an example. (139)
- 6. Define decomposition reaction and example.(140)
- 7. Define thermal decomposition reaction and example.(Thermolysis reaction) (140)**S21**7MARK i
- 8. Define electrolytic decomposition reaction and example.(140)
- 9. Define photo decomposition reaction and example.(140)
- 10. Define single displacement reaction and example. (141) S20 7MARK i
- 11. Explain the types double displacement reaction with examples. (142) S20 7MARK ii
- 12. Differences between combination and decomposition reaction. (142)
- 13. Define combustion reaction and example. (143)
- 14. Define precipitation reaction and example. (142)
- 15. Define Neutralization reaction and example.(142)
- 16.Define reversible reaction and example.(144)
- 17. Define irreversible reaction and example. (144)
- 18.Differences between reversible and irreversible reactions.(145) S21 7MARK ii
- 19. Define ionic product of water & mathematical expression. (148)
- 20. Define pH an expression of PH(148)
- 21. Give pH of vinegar, coffee, Orange, milk of magnesia (148) study all pH Value.(148)
- 22. Calculate the pH of 0.01 M HNO_3 ? (150)
- 23. The hydroxyl ion concentration of a solution is 1×10 -9M. What is the pOH of the solution?
- 24.A solution has a pOH of 11.76. What is the pH of this solution? (150)
- 25. Calculate the pH of 0.001 molar solution of HCl. (150)
- 26. What would be the pH of an aqueous solution of sulphuric acid which is 5×10^{-5} mol litre–1 in concentration? (150)
- 27. Calculate the pH of 1×10^{-4} molar solution of NaOH.(150)
- 28. Calculate the pH of a solution in which the concentration of the hydrogen ions is 1.0×10^{-8} mol litre⁻¹. (151)
- 29. If the pH of a solution is 4.5, what is its pOH? (151) & Study well book Evaluation

UNIT 11 CARBON AND ITS COMPOUNDS

- 1. Explain General characteristics of organic compounds.(155)
- 2. Explain classification of organic compounds.(156)
- 3. What is meant by hydrocarbon? How are classified?(157)
- 4. Explain Characteristics of hydrocarbons.(158)
- 5. How to identify saturated and unsaturated compounds. (158)

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- 6. Define functional groups? What is the functional group of alcohols, aldehydes, ketones, carboxylic acids, ester, ether.(158,159)
- 7. Define homologous series. Characteristics of homologous series. (159)
- 8. Write the **structure** of following compounds.
 - i)Ethane ii) Heptane iii) propene iv) propanal v)butanone vi) butyne vii)bromopropane viii) butanol ix) propanoic acid x) methoxy methane xi)ethanol xii) furan xiii) cyclopropane xiv) actelaldehyde xv)aceticacid xvi) benzene . (163)
- 9. Explain manufacture of ethanol.(163)
- 10. Define fermentation. Give an example(164)
- 11. Study all chemical properties of ethanol. (164)
- 12. Write a reaction which is used for the identification of alcohol. (164) S20 2MARK
- 13. Explain uses of ethanol. (165) S21 two uses 2MARK
- 14. Explain uses of organic compounds in daily life. (166) & Study well book Evaluation

BIOLOGY

UNIT 12 PLANT ANATOMY AND PLANT PHYSIOLOGY

- 1. What is meant by Tissues? (173)
- 2. What are tissue system in plants.(173)
- 3. Explain Tissue system and its functions. (174)
- 4. What are the functions of Dermal tissue system.(174)
- 5. Write note on ground Tissue system. (174)
- 6. Explain Vascular Tissue system. (174)
- 7. Explain Internal structure of Dicot Root (Bean) (175)
- 8. Explain Internal structure of Dicot Root (sunflower) (176)
- 9. Differences between Dicot and Monocot root. (177) S20 4MARK
- 10.Explain internal structure of Dicot (mango)(178)
- 11. What is meant by plastids.(180)
- 12. What are the types of plastids? (180)
- 13. Explain structure of chloroplast. (180)
- 14. What are the functions of chloroplast. (180)
- 15. Define photosynthesis and Where does photosynthesis occur in cell?(181) S21 4MARK i
- 16. Write note on photosynthetic pigments? (181)
- 17. Write note on role of sunlight in photosynthesis. (181)
- 18. What are factors affecting Photosynthesis. (182)
- 19. What is meant by Aerobic respiration.(183)
- 20. Write note on anaerobic respiration. (184)
- 21. Differentiate Aerobic and Anaerobic respiration. (183) S21 4MARK ii
- 22. What is Respiratory Quotient. (184) **S21 2MARK** & **Study well book Evaluation UNIT 14 TRANSPORTATION IN PLANTS AND CIRCULATION IN ANIMALS**
- 1. Define diffusion.(201)
- 2. Write note on active transport. (201)

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- 3. Define osmosis. (201)
- 4. What is meant by plasmolysis & imbibition? (201)
- 5. Draw and explain root tip with Root Hairs. (201)
- 6. Write note on Apoplast pathway. (202)
- 7. Write note on Symplast pathway. (202)
- 8. Define transpiration pull. (202)
- 9. What is the importance of Transpiration? (203)
- 10. Write note on Root pressure. (203)
- 11. Write note on uptake of minerals. (203)
- 12. Write note on translocation of mineral ions? (203)
- 13. Write note on Phloem transport. (203)
- 14. Write note on translocation of sugars. (203)
- 15. What are components of Blood? (204)
- 16.Enumerate the functions of blood? (206) **S21 7MARK** i
- 17. Write note on Erythrocytes. (205)
- 18. Write note on Leucocytes. (205)
- 19. What are the types of Granulocytes? (205)
- 20. Explain the functions of blood. (206)
- 21.Draw external structure of Human heart and label the parts (207) S20 4MARKS
- 22. Explain distribution of Antigen and antibody in different blood groups. (212) & Study well

book Evaluation

UNIT 16 PLANT AND ANIMAL HORMONES

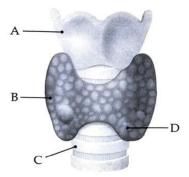
- 1. What is meant by plant Hormones? (229)
- 2. What are types of plant Hormones? (230)
- 3. How Auxins are classified.(230)
- 4. Explain physiological effects of Auxins. (230)
- 5. Explain physiological effects of Cytokinins. (231)
- 6. Name the gaseous plant hormone. Mention any three of its physiological effects in plants. (232)**S21 4MARK** (Explain physiological effects of Ethylene. (232))
- 7. State Endocrinology. (233)
- 8. What are the endocrine glands? (233)
- 9. What are the hormones secreted by anterior pituitary gland? (233)
- 10. Explain the functions of thyroid hormones. (235)
- 11. Functions of Insulin (236)

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12. Identify the parts A,B,C and D in the given diagram. (234) S20 2MARK



- 13. Functions of Glucocorticoids. (237)
- 14. Functions of Testosterone. (238)
- 15. Functions of Thymosin. (238)
- 16. Functions of Progesterone. (238)

& Study well book Evaluation

UNIT 17 REPRODUCTION IN PLANTS AND ANIMALS

- 1. Write note on androecium. (245)
- 2. Write note on Gynoecium. (246)
- 3. What is meant by micropyle. (246)
- 4. What is pollination.(246) **S21 4MARK i**
- 5. State the importance of pollination. (247) S21 4MARK ii
- 6. Write note on self-pollination. (246)
- 7. Advantages of self-pollination. (246)
- 8. Disadvantages of self-pollination. (247)
- 9. What is meant by cross pollination? (247)
- 10. Advantages of cross-pollination. (247)
- 11. Disadvantages of cross-pollination. (247)
- 12. Explain the process of Fertilization in plants. (248)
- 13.Draw and label the parts of a sperm. (250) S21 2MARK
- 14. Draw the structure of Ovum. (250)
- 15. Explain menstrual cycle process of ovulation. (251)
- 16.Explain personal Hygiene, Body Hygiene, toilet hygiene, Menstrual and Napkin Hygiene(255) & Study well book Evaluation

UNIT 18 GENETICS

- 1. Define genetics. (261)
- 2. Why did mendel select pea plant for his experiments? (262)
- 3. Monohybrid cross-Inheritance of one gene. (262)
- 4. Dihybrid Cross- Inheritance of two genes and Law of Independent Assortment (263)
- 5. Explain Mendel's laws. (264)
- 6. Define Chromosomes & explain structure of chromosome. (265) S21 4MARK
- 7. Define diploid, haploid(266)
- 8. Explain structure of DNA. (266)
- 9. Explain Watson and Crick model of DNA(266)

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10. State the application of DNA Fingerprinting technique. (267) S20 2MARK

Any 2 Points

- Used in forensic applications the crime investigation such as identifying the culprit.
- It is used for paternity testing in case of disputes.
- It helps in the study of genetic diversity of population, evolution. and speciation.

Ans:

- 11. What is meant by DNA Replication. (268)
- 12. Write note on Significance of DNA. (268) **S20 7MARK i**
- 13. Explain Sex Determination in Human. (269) & Study well book Evaluation

19. ORIGIN AND EVOLUTION OF LIFE

- 1. Explain Theories on origin of life. (274)
- 2. What is Evolution. (276) S21 2MARK
- 3. Explain Use and Disuse theory (or) Lamarckism.(277)
- 4. Explain Darvinism or Theory of natural selection (277)
- 5. Define, aspects, Importance Ethnobotany. (281) **S20 4MARKS**

& Study well book Evaluation

20. BREEDING AND BIOTECHNOLOGY

- 1. Write note on Green Revolution. (286)
- 2. Explain Methods of Plant Breeding for Crop Improvement. (288)
- 3. Write note on Animal Breeding, Inbreeding, out breeding.
- 4. Write note on Heterosis. (291)
- 5. Explain Biotechnology in Medicine. (293) S21 4MARK
- 6. Explain Gene Therapy. (293) S20 4MARK

& Study well book Evaluation

21. HEALTH AND DISEASES

- 1. Child Abuse, Sexual Abuse, Child Sexual Abuse. (301)
- 2. Explain Approaches for protection of an abused child. (302) S20 7MARKiii
- 3. Write note on Drug De-addiction. (303)
- 4. Explain Smoking Hazards and effects of Tobacco.(304)
- 5. Explain Harmful effects of alcohol to health. (304)
- 6. Suggest measures to overcome the problems of an alcoholics.(305) S21 7MARK i
- 7. Explain Obesity, Prevention and control of obesity. (305) **S21 7MARK** ii
- 8. Explain Preventive measures for cancer. (309)
- 9. How is cancer cell different from normal cell? **S21 2MARK**
- 10. Explain Symptoms and treatment of AIDS. (310)
- 11. Explain Prevention and control of AIDS. (310) & Study well book Evaluation **UNIT 22 ENVIRONMENTAL MANAGEMENT**

- 1. Write note on Nonrenewable energy sources, renewable energy sources. (318)
- 2. What is meant by fossil fuels? (318)
- 3. Explain steps to conserve coal and petroleum resources. (319)
- 4. Explain shale gas. (321)
- 5. Explain water energy. (321)
- 6. Explain Tidal energy. (322)

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- 7. Explain Rainwater Harvesting. (322)
- 8. Explain Electrical energy. (323)
- 9. E-wastes and its management. (323)

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