



Summer Vacation Homework

CLASS – 12th Foundation Section

SURAJ SCHOOL

Admission No. _____ Class & Sec _____ Roll No. _____
Name _____ Father Name _____

Respected Parents,

Please do this in Holiday Homework Notebook. Please help your ward in this work.

Subject		❖ ENGLISH							
Learning	<p>Learn all short answers questions and long answer question from the following lessons and poems in Flamingo.</p> <table border="1"> <thead> <tr> <th>Lessons</th> <th>Poems</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> The Last Lesson Lost Spring Deep Water The Rattrap Indigo </td> <td> <ul style="list-style-type: none"> My Mother at Sixty Six Keeping Quiet A Thing of Beauty A Roadside Stand Aunt Jennifer's Tigers </td> </tr> </tbody> </table>			Lessons	Poems	<ul style="list-style-type: none"> The Last Lesson Lost Spring Deep Water The Rattrap Indigo 	<ul style="list-style-type: none"> My Mother at Sixty Six Keeping Quiet A Thing of Beauty A Roadside Stand Aunt Jennifer's Tigers 		
	Lessons	Poems							
<ul style="list-style-type: none"> The Last Lesson Lost Spring Deep Water The Rattrap Indigo 	<ul style="list-style-type: none"> My Mother at Sixty Six Keeping Quiet A Thing of Beauty A Roadside Stand Aunt Jennifer's Tigers 								
Writing	<table border="1"> <thead> <tr> <th>Write theme and Message of each poem mentioned below :</th> <th>Write Seven notices based on the following:-</th> <th>Write articles having following titles :</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> My Mother at Sixty Six Keeping Quiet A Thing of Beauty A Roadside Stand Aunt Jennifer's Tigers </td> <td> <ul style="list-style-type: none"> Cultural Activities Academic Activities Sports, Excursion and Fetes Lost & Found </td> <td> <ul style="list-style-type: none"> Changing trends in education Role of youth in frightening corruption Status of women in society Why is tourism not flourishing in India Importance of head work and punctuality in a student life </td> </tr> </tbody> </table>			Write theme and Message of each poem mentioned below :	Write Seven notices based on the following:-	Write articles having following titles :	<ul style="list-style-type: none"> My Mother at Sixty Six Keeping Quiet A Thing of Beauty A Roadside Stand Aunt Jennifer's Tigers 	<ul style="list-style-type: none"> Cultural Activities Academic Activities Sports, Excursion and Fetes Lost & Found 	<ul style="list-style-type: none"> Changing trends in education Role of youth in frightening corruption Status of women in society Why is tourism not flourishing in India Importance of head work and punctuality in a student life
	Write theme and Message of each poem mentioned below :	Write Seven notices based on the following:-	Write articles having following titles :						
<ul style="list-style-type: none"> My Mother at Sixty Six Keeping Quiet A Thing of Beauty A Roadside Stand Aunt Jennifer's Tigers 	<ul style="list-style-type: none"> Cultural Activities Academic Activities Sports, Excursion and Fetes Lost & Found 	<ul style="list-style-type: none"> Changing trends in education Role of youth in frightening corruption Status of women in society Why is tourism not flourishing in India Importance of head work and punctuality in a student life 							
Activity	<table border="1"> <tbody> <tr> <td colspan="3" style="height: 60px;"></td> </tr> <tr> <td colspan="3"> <p>❖ Cut 10 - 15 different reports from English Newspapers about current global issues and Social Problems and paste them in your notebook.</p> </td> </tr> </tbody> </table>						<p>❖ Cut 10 - 15 different reports from English Newspapers about current global issues and Social Problems and paste them in your notebook.</p>		
<p>❖ Cut 10 - 15 different reports from English Newspapers about current global issues and Social Problems and paste them in your notebook.</p>									



Homework Summer Vacation

CLASS – 12th Foundation Section

SURAJ SCHOOL

Subject		❖ Music Hind Vocal
<div> Learning + Writing </div>	1. ताल परिचय – रूपक ताल, झपताल, धमार ताल,	
	2. परिभाषाएं – अंलकार, ग्राम, कण स्वर, वर्ण, आलाप, खटका, मुर्की, मूर्च्छना, गमक, मींड़, तान	
	3. ग्रंथ परिचय – <input checked="" type="checkbox"/> संगीत रत्नाकर <input checked="" type="checkbox"/> संगीत परिजात	
	4. रागो का शास्त्रीय परिचय – <input checked="" type="checkbox"/> राग भैरव <input checked="" type="checkbox"/> राग मालकौस <input checked="" type="checkbox"/> राग बागेश्री	
	5. रागों के समय सिद्धांत के बारे में आप क्या जानते हैं? वर्णन कीजिए।	

Subject		❖ Physical Education
<div> Learning + Writing </div>	Unit 1 planning in sports Unit 2 children and women in sports	
	Activity	Prepare daily routine exercise for 21 st June

Subject		❖ Mathematics
<div> Learning + Writing </div>	❖ Holiday Homework 12th Sp Maths	
	1. Relation and Functions	
	2. Inverse trigonometric functions	
	3. Matrices	
	4. Determinants	
	5. Quadratic equation	
	6. Sets	
	7. Binomial Theorem	
	8. Permutation and combination	
	9. Sequence and series	
	10. Straight Line	
(For all the above mentioned chapters - complete each and every pyq of jee main last 5 years)		



Homework Summer Vacation

CLASS – 12th Foundation Section

SURAJ SCHOOL

Subject

❖ **Chemistry**

XII SP (NEET)

1. Concentration term (Theory + exercise of Cengage module + NCERT + NEET PYQ)
2. liquid solution (Theory + exercise of Cengage module + NCERT + NEET PYQ)
3. Electrochemistry (Theory + exercise of Cengage module + NCERT + NEET PYQ)
4. Chemical kinetics (Theory + exercise of Cengage module + NCERT + NEET PYQ)
5. D block element (Theory + Cengage module + NCERT + JEE PYQ)

XII SP1 (JEE - MAINS)

1. Concentration term (Theory + Cengage module + NCERT + JEE PYQ)
2. liquid solution (Theory + Cengage module + NCERT + JEE PYQ)
3. Electrochemistry (Theory + Cengage module + NCERT + JEE PYQ)
4. Chemical kinetics (Theory + Cengage module + NCERT + JEE PYQ)
5. D block element (Theory + Cengage module + NCERT + JEE PYQ)

Subject

❖ **Physics**

XII F (NEET)

1. Coulomb's law
2. Electric field, potential
3. Gauss law, properties of conductor
4. Capacitor
5. Ohm's Law
6. KCL, KVL



MCQ from module pyz from 2010 –2025
questions from HC verma

Do all numericals from NCERT, DC PANDEY, HC VERMA on above mentioned topics.
Also practice all previous year questions of NEET

XII F1 (JEE - MAINS)

1. Coulomb's law
2. Electric field, potential
3. Gauss law, properties of conductor
4. Capacitor
5. Ohm's Law
6. KCL, KVL



MCQ from module pyz from 2010 –2025
questions from HC verma

Do all numerical from NCERT, DC PANDEY, HC VERMA, CENGAGE on above mentioned topics.
Also practice all previous year questions of IITJEE MAINS, ADVANCED.



Homework Summer Vacation

CLASS – 12th Foundation Section

SURAJ SCHOOL

• BIOLOGY

- Do this Holiday homework in your homework note book.
- All parts are compulsory.
- Submission of both hard copy as well as soft copy of holidays H.W must be necessary to the concerned subject teacher after completion of holidays.
- Make neat and clean properly labeled diagrams.

Part- A:-

(Multiple Choice Questions)

1. _____ is a lytic enzyme released by the sperm.
 - a. Hyaluronidase
 - b. Trypsin
 - c. Helicase
 - d. None of the above
2. How many autosomes does a human primary spermatocyte have?
 - a. 34
 - b. 44
 - c. 54
 - d. 33
3. Where does the ovum receive the sperm?
 - a. Animal pole
 - b. Vegetal pole
 - c. Zonapellucida
 - d. None of the above
4. _____ is an organelle that helps the sperm to penetrate the ovum.
 - a. Acrosome
 - b. Zonapellucida
 - c. Megalis
 - d. None of the above
5. Umbilical cord contains _____.
 - a. Pluripotent stem cells
 - b. Cord blood stem cells
 - c. Blood stem cells
 - d. None of the above
6. How does human sperm locomote?
 - a. Flagella
 - b. Cilia
 - c. Neutrophils
 - d. None of the above
7. Cryptorchidism is a condition where _____.
 - a. One of both testes are not developed
 - b. One or both testes fail to descend into the scrotum
 - c. One or both testes are not formed
 - d. None of the above
8. Bidder's canal receives _____.
 - a. Eggs
 - b. Sperms
 - c. Ammonia
 - d. Oxygenated blood
9. The hormone that is released from the testes is _____.
 - a. Progesterone
 - b. Vasopressin
 - c. Testosterone
 - d. None of the above
10. Wolffian duct is also known as _____.
 - a. Mesonephric duct
 - b. Ejaculatory duct
 - c. Major sublingual duct
 - d. Cystic duct
11. Acrosome is filled with _____.
 - a. Lipids
 - b. Hormones
 - c. Digestive enzymes
 - d. None of the above
12. _____ is an example of a viviparous animal.
 - a. Goat
 - b. Duck
 - c. Crocodile
 - d. None of the above
13. _____ is an example of an oviparous animal.
 - a. Pigeon
 - b. Elephant

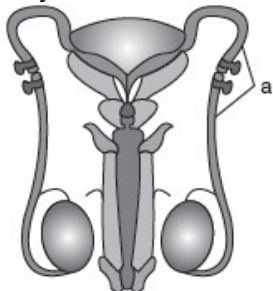


- c. Sheep
d. None of the above
14. The _____ is an ovoviviparous animal.
- a. Basking shark
b. Bonobo
c. Blue shark
d. None of the above
15. The _____ is a temporary organ that connects a mammalian mother to its foetus.
- a. Placenta
b. Chorion
c. Endometrium
d. None of the above
16. A typical angiosperm anther is
- (A) bilobed and monothecous
(B) bilobed and dithecous
(C) bilobed and athecous
(D) monolobed and dithecous
17. The wall of a typical microsporangium which nourishes the developing pollen grains is
- (A) Tapetum (B) endothecium
(C) Middle layers (D) epidermis
18. Somatogenic reproduction is nothing but
- (A) Asexual reproduction
(B) Sexual reproduction
(C) Parthenogenesis
(D) None of these
19. Asexual reproduction takes place in
- (A) Monera (B) Protists
(C) Sponges (D) all of these
20. Which one of the following layer of the anther wall helps in its dehiscence?
- (A) Epidermis (B) Middle layer
(C) Endothecium (D) Tapetum
21. Product of sexual reproduction generally generates
- (A) Longer viability of seeds
(B) Prolonged dormancy
(C) New genetic combination leading to variation
(D) Large biomass
22. The outer wall and inner wall of the pollen grain are _____ respectively.
- (A) Intine and exine
(B) Exine and intine
(C) Epidermis and endodermis
(D) None of the above
23. When both types of reproductive organs are present in separate parents, such animals are called

- (A) Dioecious
(B) Monoecious
(C) Hermaphrodite
(D) Both (B) and (C)
24. Pollen grain can withstand high temperature, acid and alkaline conditions due to presence of exine made up of
- (A) pectocellulose (B) sporopollenin
(C) Cellulose (D) lignocelluloses
25. Select the CORRECT statement from the following.
- (A) Sporogenous tissue is haploid.
(B) Endothecium of microsporangium nourishes the developing pollen grains.
(C) The outer three wall layers of microsporangium help in dehiscence of anther.
(D) Epidermis of microsporangium is followed by sporogenous tissue.
26. In pollen grain, sporopollenin is absent in
- (A) intine (B) exine
(C) Germ pores (D) both (A) and (C)
27. Which of the following has proved helpful in preserving pollen as fossils?
- (A) Oil content (B) Cellulosic intine
(C) Pollenkitt (D) Sporopollenin
28. Banana is an example of
- (A) parthenocarp
(B) apomixis
(C) parthenogenesis
(D) polyembryony
29. During embryonic development, the baby starts moving, and hair starts appearing on the head during embryonic development.
- (A) Fourth month
(B) Fifth month
(C) Eight month
(D) Ninth month
30. Which of the following hormones are involved in the process of oogenesis?
- (A) Estrogen
(B) Testosterone
(C) Follicle-stimulating hormones (FSH)
(D) Both (A) and (C)
31. The amniocentesis test is based on _____ to determine the sex of developing foetus.
- (a) External genitalia
(b) Secondary sexual characters
(c) Chromosomal pattern
(d) Embryonic enzymes



32. In lactational amenorrhea, which event does not occur in menstrual cycle?
 (a) Menstrual flow (b) Ovulation
 (c) Funicular phase (d) Luteal phase
33. Which portion of male reproductive system has been cut and ligated in figure?



- (a) Vasa efferentia (b) Urethra
 (c) Vas deferens (d) Rete testis
34. Surgical method for terminal contraception work on which of the following grounds?
 (a) Block gamete transport
 (b) Block gamete generation
 (c) Alter biochemical nature of gamete
 (d) Destroys gamete permanently
35. An ideal contraceptive should be
 (A) User-friendly
 (B) Easily available
 (C) Effective and reversible
 (D) With nor or least side-effects
 (a) A, B and C only (b) A and D only
 (c) B and C only (d) All
36. Which of the following viruses is not transferred through semen of an infected male?
 (a) Hepatitis B virus
 (b) Human immunodeficiency virus
 (c) Chikungunya virus
 (d) Ebola virus
37. An injectible form of the hormone based contraceptive is
 (a) Norplant (b) Depo-provera
 (c) Mala-D (d) Saheli
38. During which phase of the pregnancy MTP is safe?
 (a) 1st trimester (b) 2nd trimester
 (c) 3rd trimester (d) 4th trimester
39. IVF in which the early zygote with up to 8 blastomeres is transferred to the Fallopian tube is called
 (a) ZIFT (b) GIFT
 (c) ICSI (d) IUI
40. IUT Stands for
 (a) Inter Uterine Transfer
 (b) Intra Uterine Transfer
 (c) In-Uterus Transfer
 (d) None of these

41. Which of the following is a correct statement?
 (a) IUDs once inserted need not be replaced
 (b) Jellies and cream enable sperms to reach towards ovum speedly
 (c) IUDs increase phagocytosis of sperms in the uterus
 (d) Pills suppress gametogenesis in males
42. Choose the correct matched statements from the following.
 I. IUT – Embryo is transferred into the uterus after *in vitro* fertilisation.
 II. GIFT – Gametes are collected and injected in the Fallopian tube.
 III. AI – Taking semen from donor and transferring it into female genital tract.
 IV. ZIFT – Zygote inserted into the Fallopian tube.
 V. ICSI – One sperm transferred into the ovum.
 (a) I, II and III
 (b) II, III and IV
 (c) III, IV and V
 (d) I, II, III, IV and V
43. Using which contraceptive also provides protection from contracting STDs and AIDs?
 (a) Diaphragms (b) Spermicidal foams
 (c) Condoms (d) lactational amenorrhoea
44. Mark the incorrect statement
 (a) According to 2001 census our population growth rate was 1.7%
 (b) Marriageable age for male and female is respectively 18 and 21 years
 (c) An ideal contraceptive should be reversible
 (d) The problem of infertility in India lies most often in female partner
45. Amniocentesis can be used to detect all the listed diseases except
 (a) haemophilia (b) malaria
 (c) sickle cell anaemia (d) Down syndrome
46. Which is the most widely accepted method in India?
 (a) Condom (b) LNG – 20
 (c) Progesterone (d) IUD's
47. Hormone releasing IUD's are
 (a) Progestasert (b) Lippes loop
 (c) Multiload 375 (d) None of above
48. What is the function of pills?
 (a) Inhibit ovulation
 (b) Increase phagocytosis of sperm
 (c) Inhibit fertilization
 (d) None of the above
49. MTPs are considered safe up to how many weeks of pregnancy?
 (a) 10 (b) 12
 (c) 8 (d) 4



50. Among the given diseases which of the following are related to STDs

- (A) Pelvic inflammatory disease
 (B) Still Birth
 (C) Infertility
 (a) Only (A) (b) Only (B)
 (c) Only (A) and (C) (d) All (A), (B) and (C)

Part- B

Make a PowerPoint presentation/ small size model according to your roll no/Name on the topic given below:-

General instructions:-

- It should be eco-friendly and light weight.
- No thermocol or polythene should be used.
- Size should be near about 16x20 inches.

Name	Topic
ROLL NO 1-5	T.S OF AN ANTER, MALE GAMETOPHYTE AND 7 CELLED- 8 NUCLEATE CONDITION
ROLL NO 6-10	EMBYROGENY IN DICOTS, MALE REPRODUCTIVE SYSTEM
ROLL NO 11-15	FEMALE REPRODUCTIVE SYSTEM AND GRAPH OF M.C
ROLL NO 16-20	STRUCTURE OF SPERM, EGG AND HUMAN FETUS WITHIN UTERUS
ROLL NO 21-23	GRAPH OF MC, FORMATIONOF BILAMINAR AND TRILAMUNAR DISC
ROLL NO 24-25	T.S OF AN ANTER, GRAPH OF MC

Part- C

Learn all the Questions OF Reproduction given in your N.C.E.R.T book and Effectual book from the chapters which had been done till our last class.

Part- D

Answer the following questions:-

1. What is the reason for the absence of menstrual cycles during conception or pregnancy?
2. State the role of the epididymis in male fertility.
3. a. How many spermatozoa does one secondary spermatocyte produce?

b. Where in zygote does the first cleavage division occur?
4. Why does corpus luteum stay active throughout pregnancy and in the absence of fertilization, is active only for 10-12 days?
5. What is foetal ejection reflex? How does it cause parturition?
6. Describe the structure of a seminiferous tubule.
7. What is oogenesis? Give a brief account of oogenesis.
8. Why is breastfeeding recommended during the initial stages of infant growth?
9. Define self-incompatibility. How do self-incompatible plants pollinate?
10. Explain the pollination occurring in the chasmogamous flowers.