

SURAJ SURAJ SURAJ SURAJ SURAJ SURAJ SURAJ

Summer Vacation Homework

CLASS – 12th Spark Section



Subject			ENGLI	
4 Learning	Learn all short answers questions a poems in Flamingo. Lessons The Last Lesson Lost Spring Deep Water The Rattrap Indigo	And long answer question from the following lessons and Poems My Mother at Sixty Six Keeping Quiet A Thing of Beauty A Roadside Stand Aunt Jennifer's Tigers		
4 Writing	 Write theme and Message of each poem mentioned below : My Mother at Sixty Six Keeping Quiet A Thing of Beauty A Roadside Stand Aunt Jennifer's Tigers 	 Write Seven notices based on the following:- Cultural Activities Academic Activities Sports, Excursion and Fetes Lost & Found 	 Write articles having following titles: Changing trends in education Role of youth in frightening corruption Status of women in societ Why is tourism not flourishing in India Importance of head work and punctuality in a student life 	
4 Activity	 Cut 10 - 15 different report Social Problems and paste 		about current global issues a	





Homework Summer Vacation

CLASS – 12th Medical



Music Hind Vocal

Subject

1.	ताल	पारचय -	- रूपक	તાલ,	झपताल,	धमार	ताल,

 परिभाषाएं – अंलकार, ग्राम, कण स्वर, वर्ण, आलाप, खटका, मुर्की, मूर्च्छना, गमक, मींड, तान

Learning +

4 Writing

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- 3. ग्रंथ परिचय 🗹 संगीत रत्नाकर 🗹 संगीत परिजात
- रागो का शास्त्रीय परिचय 🗹 राग भैरव 🗹 राग मालकौस 🗹 राग बागेश्री
- 5. रागों के समय सिद्धांत के बारे में आप क्या जानते है? वर्णन कीजिए।

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

Subject	 Mathematics
Subject Learning	 Mathematics Holiday Homework 12th Sp Maths Relation and Functions Inverse trigonometric functions Matrices Determinants Quadratic equation
↓ Writing	 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 of last 5 years)



Homework Summer Vacation

CLASS – 12th Medical

1.Concentration term (Theory + exercise of Allen module + NCERT + NEET PYQ

2.liquid solution (Theory + exercise of Allen module + NCERT + NEET PYQ

1.Concentration term (Theory + exercise S1 and O1 + NCERT + NEET PYQ

2.liquid solution (Theory + exercise S1 and O1 + NCERT + NEET PYQ

3.Electrochemistry (Theory + exercise S1 and O1 + NCERT + NEET PYQ

4. Chemical kinetics (Theory + exercise S1 and O1 + NCERT + NEET PYQ

Do all numericals from NCERT, DC PANDEY, HC VERMA on above mentioned topics.

Do all numericals from NCERT, DC PANDEY, HC VERMA, CENGAGE on above mentioned

Also practice all previous year questions of IITJEE MAINS, ADVANCED.

3.Electrochemistry (Theory + exercise of Allen module + NCERT + NEET PYQ

4. Chemical kinetics (Theory + exercise of Allen module + NCERT + NEET PYQ



Subject

Subject

Chemistry

Physics

XII SP (NEET)

XII SP1 (JEE - MAINS)

XII SP (NEET)

1. Coulomb's law

4. Capacitor

5. Ohm's law

XII SP1 (JEE - MAINS) 1. Coulomb's law

> 4. Capacitor 5. Ohm's law 6. KVL, KCL

topics.

2. Electric field, potential

6. KVL, KCL

2. Electric field, potential

3. Gauss law, properties of conductor

7. Combinations of resistors, capacitors

8. Combinations of battery, RC circuits.

3. Gauss law, properties of conductor

7. Combinations of resistors, capacitors 8. Combinations of battery, RC circuits.

Also practice all previous year questions of NEET





Homework Summer Vacation

CLASS – 12th Medical



• BIOLOGY

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

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
 - ____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

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4.







- 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 tovariation

(D) Large biomass

22. The outer wall and inner wall of the pollen grain respectively. are

- (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 (D) Sporopollenin

- (C) Pollenkitt
- 28. Banana is an example of
 - (A) parthenocarpy
- (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)

प्रकाशमय कल के लिए

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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	Торіс
ROLL NO 1-5	T.S OF AN ANTHER, 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 21-25	GRAPH OF MC,
	FORMATIONOF BILAMINAR
	AND TRILAMUNAR DISC
ROLL NO 25-30	T.S OF AN ANTHER, 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:-

- What is the reason for the absence of menstrual cycles during conception or pregnancy?
- 2. State the role of the epididymis in male fertility.



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.

