WINTER Vocations HOME WORK (2019)

Class XII SUBJECT BIOLOGY

1) Give short answers to the following Questions.
   a) How does breathing differ from cellular respiration?
   b) Write about the morphology of Lungs
   c) Write the characteristics of Respiratory surface
   d) Differentiate between Haemoglobin & Myoglobin
   e) What do you know about chloride shift mechanism?
   f) How animals are classified on the bases of temperature regulation?
   g) Compare three types of muscles in tabulated form
   h) Compare Bone to that of Cartilage
   i) Why velocity of Nerve impulse is faster in myelinated Neuron
   j) What is Semin? Write about its chemical composition & functions
   k) Differentiate between Incomplete dominance & co-dominance
   l) Write about the morphology of chromosomes
   m) Why post transcriptional changes are necessary for Eukaryotic cells?
   n) Give some applications of PCR

2) Draw the Labelled Diagrams of the following
   a) Sarcomere
   b) Longitudinal Section of Human Kidney
   c) Structure of Nephron
   d) three types of neurons
   e) Male & Female Reproductive System of Human
   f) Steps Showing the Steps of PCR cycles

3) Solve Past Board Papers of years 2018 & 2019 on separate papers as per Board standard

NOTE- Students are directed to write the H.W on separate Register or on assignment papers

HOMEWORK WINTER VACATIONS 2019
CLASS XII (Physics)

NOTE. Use a separate register/Notebook for all the assignments/tasks given below

Task 1: MCQs Prepare 20 MCQs per Chapters other than Book and provided by the department.
Task 2: Write Answers to all short question given in exercise of chapter 11 TO 20.
Task 3: Solve all the Numerical Questions given in exercise of chapter 11TO 20.
Task 4: Complete Practical Note Book (XI &XII).
Task 5: Write detailed answer of the long Questions given in the exercises of the following chapters.
Chapers 11,13,15,17,18
Task 6: Solve the 2 yrs past papers for practice.

Cptr Sc Home Assignment Winter Vacation Class 1st year

ASSIGNMENT:
Q1. Go through all the MCQs from MCQs’ booklet.
Q2. Revise the following topics & write the definition, purpose, explanation and one example each.
   - Instructions & types of instructions.
   - Network topologies
   - OSI Model
   - Cellular communications
   - Database models.
   - Normalization.
Q3. Also create a network topology (combination of star & Bus topology) for your home. Also write the advantages & drawbacks of such topology.
Q4. Create an OSI Model b/w two users that shares information. Also mention transferring data step by step with the help of a diagram.

Q5. Revise the concepts of database development and create at least two database projects one for college and one for houses (SAS, SIS, STS) in Army burn Hall College or boys.

Q6. Attempt the past paper of 2019 and Model Paper which are attached as Appendix-I.

Assignment Submission Instructions:
1. Take a separate register for above tasks or you may use your previous computer’s register.
2. Every task should be written neat and clean with proper margins drawn on sides.
3. Vacations work will be collected on the very first day of the winter camp.

In case of any query, send me an email at sohailshahuop@gmail.com

Model Paper 1

Section B
Attempt all Questions:
1. Why LED monitors are better choices than LCDs?
2. Compare microcomputer with mainframe computer.
3. Give important Characteristics of computers.
4. State three differences b/w primary and secondary memory.
5. Differentiate b/w sequential access and direct access memory.
6. Differentiate b/w system software & application software.
7. Give any five advantages of using LCD monitor over CRT monitor.
8. Why dot matrix printers are becoming obsolete?
9. What is the purpose of secondary memory?
10. Why data access time in sequential access devices is more than the random access devices.

Section C
Attempt all Questions:
1. What are the advantages of using forms?
2. What is meant by referential integrity?
3. Define primary and secondary key?
4. Differentiate b/w data and information.
5. Differentiate b/w asynchronous and synchronous network transmission.
6. Differentiate b/w server and client computers.
7. What is OSI Model?
8. Define Global positioning system (GPS)?
9. What is wireless Markup language?
10. What is a database Management System (DBMS)?

Section D
Attempt all Questions:
1. Explain the types of buses used in computers.
2. Explain magnetic tape and hard disk.
3. Describe cellular communication and mention its advantages and disadvantages.
4. What are the functions of following expansion cards?
   a) sound card  b) modem card  c) Network interface card (NIC)

CLASS SECOND YEAR CHEMISTRY
1. Memorize and write the following mechanisms
   a. Ozonolysis
   b. Electrophilic substitution reactions
      nitration
      sulphonation
      halogenations
      Friedal craft’s alkylation
      Friedal craft’s acylation
c. SN reactions
d. Aldol condensation and Caznizzaro’s mechanism
e. Esterification

2. Practice of all chemical equations of chapter 13 and chapter 14
3. Go through all the MCQs provided to you and which are given at the end of each chapter and prepare them for the test which will be conducted immediately after the winter vacation.
5. Solve last three board papers on your notebook

Winter Vacation Home Work

ENGLISH
2nd Year

- Attempt the Section - C of past papers of 2015 onwards along with the Model Paper (English) of 2020.

Winter vacation home work 2nd year

• دینیے گنیے نوٹس کی مدد سے بورڈ پیپر کے مطابق دہرائی کریں।
• مشقوں میں شامل تمام گرامر لکھ کر لائیں۔
• مندرجہ ذیل موضوعات پر مفصل مضامین لکھیں:۔
• محنی کی برکتیں،سیاحت کی اہمیت اور افادیت کی مضمون کے مطابق لکھیں۔