

KENDRIYA VIDYALAYA AFS BAGDOGRA

Winter break homework

Class: XI(SC)

Sub: English

1. Notice-The 10th International Book Fair is being held at Pragati Maidan between 7 Jan. – 14 Jan 2020. As Secretary of Literary Association, write a notice informing students about it using maximum 50 words.
2. Poster – Design a poster in not more than 50 words for your school library on the value of books and good reading habits. You may use slogans.
3. You are the Personnel Manager of a leading industrialist group. You need a lady receptionist capable of handling the large EPABX . Computer literate graduates, fluency in English, pleasing personality preferable. Write out an advertisement for publication in a newspaper.
4. You are Sahil Kukreja, the Sports Secretary of your school. Write a letter to Globe Enterprises, New Delhi, a leading firm dealing in sports goods, requesting them to supply their trade catalogue. You may mention the items you intend to buy and ask for a discount on the catalogue price.
5. You are greatly disturbed by the increase in traffic, pollution and uncleanliness in your city. Write a letter to the Editor of The Tribune, Chandigarh, throwing light on these aspects, so as to make the citizens aware of these growing drawbacks in their city and seeking their cooperation

Sub: Computer Science

- a) Which key word is used to sort the records of a table in descending order? Give example.
- b) Which clause is used to sort the records of a table? Give example.
- c) Which command is used to modify the records of the table? Give example.
- d) Which clause is used to remove the duplicating rows of the table? Give example.
- e) Differentiate between Primary key and Candidate key.
- f) Differentiate between Degree and Cardinality.
- g) Write a output for SQL queries (i) to (iii), which are based on the TABLE

Study the following tables FLIGHTS and FARES and write SQL commands for the questions (i) to (iii)

FL_NO	STARTING	ENDING	NO_ FLIGHTS	NO_ STOPS
IC301	MUMBAI	DELHI	8	0
IC799	BANGALORE	DELHI	2	1
MC101	INDORE	MUMBAI	3	0
IC302	DELHI	MUMBAI	8	0
AM812	KANPUR	BANGALORE	3	1
IC899	MUMBAI	KOCHI	1	4
AM501	DELHI	TRIVENDRUM	1	5
MU499	MUMBAI	MADRAS	3	3
IC701	DELHI	AHMEDABAD	4	0

FL_NO	AIRLINES	FARE	TAX%
IC701	INDIAN AIRLINES	6500	10
MU499	SAHARA	9400	5
AM501	JET AIRWAYS	13450	8
IC899	INDIAN AIRLINES	8300	4
IC302	INDIAN AIRLINES	4300	10
IC799	INDIAN AIRLINES	1050	10
MC101	DECCAN AIRLINES	3500	4

- (i) Display FL_NO and NO_FLIGHTS from “KANPUR” TO “BANGALORE” from the table FLIGHTS.
- (ii) Arrange the contents of the table FLIGHTS in the ascending order of FL_NO.
- (iii) Display the FL_NO and fare to be paid for the flights from DELHI to MUMBAI using the tables FLIGHTS and FARES, where the fare to be paid = FARE+FARE+TAX%/100
- h) Write SQL queries for (i) to (iv), which are based on the table given in the question

Consider the following tables Product and Client.
Write SQL commands for the statement (i) to (iv)

Table: PRODUCT

P_ID	Product Name	Manufacturer	Price
TP01	Talcom	Powder LAK	40
FW05	Face Wash	ABC	45
BS01	Bath Soap	ABC	55
SH06	Shampoo	XYZ	120
FW12	Face Wash	XYZ	95

Table: CLIENT

C_ID	Client Name	City	P_ID
01	Cosmetic Shop	Delhi	FW05
06	Total Health	Mumbai	BS01
12	Live Life	Delhi	SH06
15	Pretty Woman	Delhi	FW12
16	Dreams	Banglore	TP01

- (i) To display the details of those Clients whose city is Delhi.
- (ii) To display the details of Products whose Price is in the range of 50 to 100 (Both values included).
- (iii) To display the ClientName, City from table Client, and ProductName and Price from table Product, with their corresponding matching P_ID.
- (iv) To increase the Price of all Products by 10

SUBJECT :- CHEMISTRY

CH-1

EX. QN. 1,3,4,6,7,8,

CH-2

EX.Qn. 2,3,4,5,6

Ch-3

Ex.Qn. 1,4,6,9,11,13

Ch-4

Ex.Qn. 3,4,6,7,9,10,13,15,17

Ch-5

Ex.Qn. 1,2,3,4,7,8,9

Ch-6

EX.Qn. 3,5,7,8,9,11,13,15

Ch-7

ExQn. 1,3,4,5,7,8,10,12,15,16

Ch-8

ExQn, 2,5,6,7,8

Ch-9

Ex.Qn. 1, 5, 7, 9, 11, 12, 13

Physics holiday homework

1. Derive the formula for variation of acceleration due to gravity with altitude and depth
2. Derive formula for gravitational potential and gravitational potential energy
3. Derive the formula for escape velocity
4. Derive the formula for orbital velocity, height and time period of a satellite
5. Explain about geostationary satellite
6. Derive the formula for elastic potential energy of a stretched wire
7. State pascals law and its application in hydraulic lift and hydraulic brakes
8. State and prove bernoullis theorem
9. Write principle, construction and working of venturimeter
10. State surface energy and its derivation
11. Derive the formula for excess pressure inside the liquid drop and soap bubbles
12. Derive the formula for capillary rise
13. To prove mayer's formula
14. To prove Adiabatic equation
15. Explain refrigerator and its co-efficient of performance

Mathematics

Class 11 sci/com (holiday homework)

Ch- 9 (sequences and series) – ex 9.2:- Q. 9,11,12,15,16,18

Ex 9.3 :- Q. 17,18,20,22,23,25,27,28,29,32

Ex 9.4:- Q . 3, 4, 9

Miscellaneous ex. Q. 1,7,10,13,14,15,16,17,18,19,25,26,29

Ch-10 (straight lines) ex.10.1:- Q 13,14

Ex.10.2:- Q. 5,6,11,18,19

Ex 10.3:- Q. 14,16,18,

Miscellaneous ex:-Q. 2,10,13,15,16,23,18

Ch-11 (Conic section) ex. 11.1:- Q.11,12,13,14,15,

Ex.11.2 Q 6,10,11

Ex:- 11.3:- Q 6,7,12,14,15,17,19,20

Ex11.4 :- Q 6,10,12,15

Miscellaneous ex. Q.2 ,3,4,6,7

Ch-13 (limits and derivatives) ex. 13.1 Q 7,8,10,14,15,21,18,20,22,23,28,30,31,32

Ex.13.2:-Q4 (iii),5,6,7(ii),9(vi),10

Miscellaneous ex. :- Q 1 (iii),(iv) ,4,13,17,22,24,30

विषय –हिन्दी

1)क) किसी समाचार पत्र को एक संवाददाता की जरूरत है । अपनी योग्यता का उल्लेख करते हुए उक्त पद के लिए आवेदन पत्र लिखिए ।

ख) दिल्ली नगर निगम के स्वास्थ्य-अधिकारी को पत्र लिखकर उनसे आपके मोहल्ले की सफाई कराने का अनुरोध कीजिए।

2) निम्नलिखित विषयों एक पर 150 शब्दों में निबंध लिखिए ।

क) स्वच्छ भारत अभियान

- ख)हिन्दी के प्रसार में सिनेमा का योगदान
- 3)निम्नलिखित प्रश्नों के उत्तर दीजिये –
- क) लक्ष्य प्राप्ति में इंद्रिया बाधक होती है –इस संदर्भ में अपने तर्क दीजिये |
- ख) ईश्वर के लिए किस दृष्टांत का प्रयोग किया गया है और किस आधार पर ?
- ग) अपना घर से क्या तात्पर्य है ?इसे भूलने की बात क्यों की गई है ?
- 4) फ्रीलांसर पत्रकार किसे कहते हैं?
- 5)पूर्णकालिक पत्रकार किसे कहते हैं?

SUBJECT BIOLOGY (CHAPTERS—13 To 19)

- Q1.Who discovered and how that photosynthesis is a light dependant reaction?
- Q2. Differentiate between cyclic and non cyclic Photophosphorylation.
- Q3.Explain chemiosmotic hypothesis for the synthesis of ATP .
- Q4 Explain the Hatch and Slack Pathway.
- Q5. What is Photorespiration? Write some structural and functional differences between C3 and C4 plants.
- Q6. What do you understand by the term Respiratory substrates and respiratory quotient?
- Q7. Differentiate between fermentation and aerobic respiration.
- Q8. Describe with the help of a schematic diagram Tricarboxylic Acid Cycle.
- Q9.What is ETS? Give diagrammatic representation of ETS.
- Q10. Differentiate between arithmetic growth rate and geometric growth rate. .
- Q11. Explain differentiation, dedifferentiation, redifferentiation during plant growth and differentiation.
- Q12.What are heterophylly, plasticity, vernalisation and photoperiodism ? Explain giving example with the help of diagrams.
- Q13.What is PGRs? Mention various PGRs and write their significance in the growth and development of plants.
- Q14. What is glycolysis? Where does it take place? Explain the steps schematically
- Q15.Prepare a table to show the digestion of carbohydrate, fats and proteins in different parts of alimentary canal in man.
- Q16. Explain the mechanism of breathing with respect to Inspiration and Expiration.
- Q17.What is the role of hemoglobin in the transport of respiratory gasses.
- Q18. Explain ABO blood grouping in man and Rh incompatibility of foetus and mother.
- Q19. What do you understand by Cardiac Cycle and ECG? Explain with the help of a diagram.
- Q20.How is urine formed? Describe the counter current mechanism during concentration of urine.
- Q21. Describe sliding filament theory for the mechanism of muscle contraction.
- Q22. Draw a neat and well labeled diagram of the following
- a) Human alimentary canal.
 - b) Human heart
 - c) Excretory system in man
 - d) Nephron
 - e) Actin and Myosin filaments