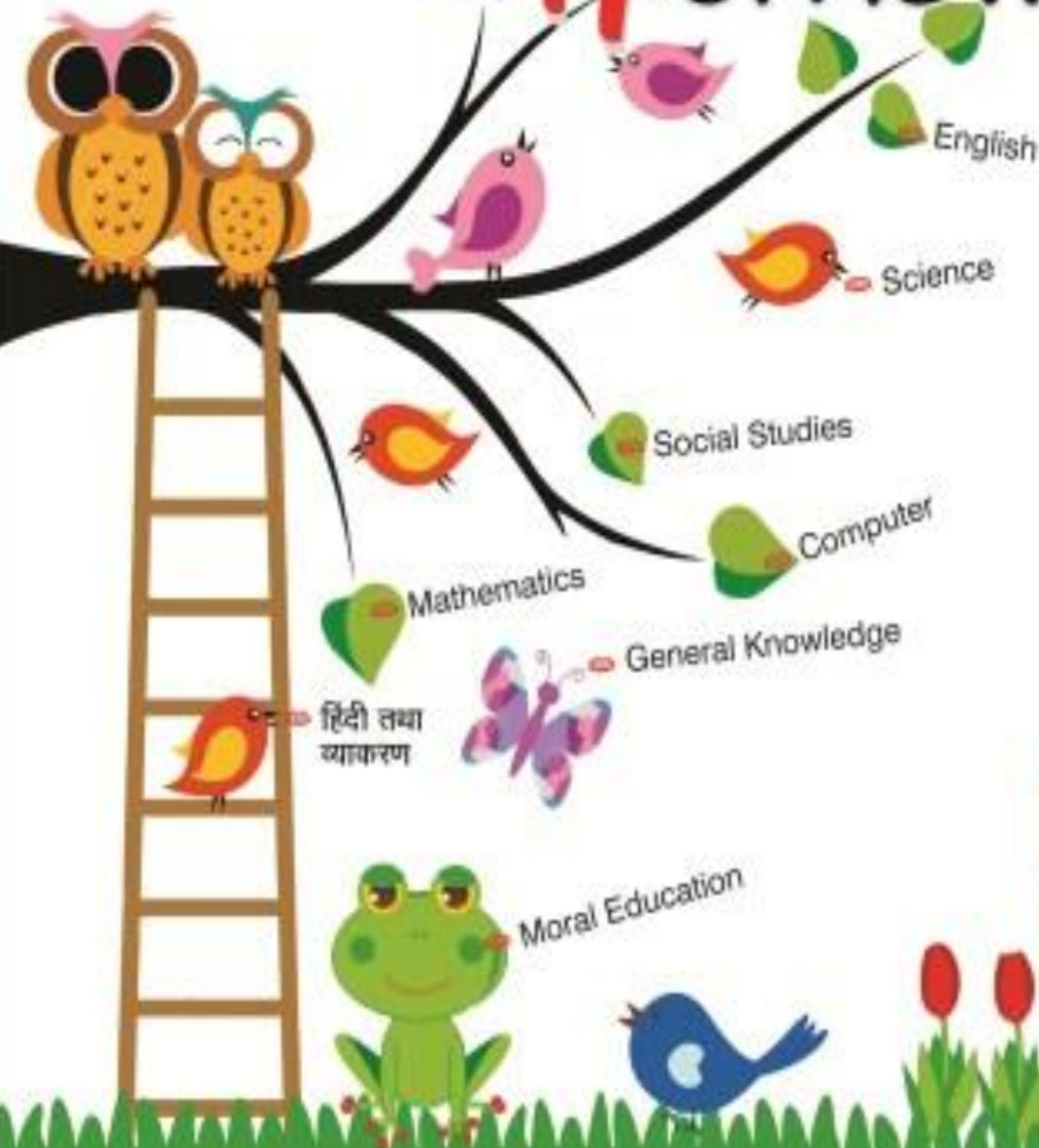


Holidays Homework



B.R.B. MODEL SCHOOL

Holiday Home Work

Class- XII

Hindi

- 1- 'काले मेघा पानी दे' पाठ के आधार पर कौन सा पात्र इन्द्र सेना पर पानी फेंका जाना सही ठहराता है? वह उसके तर्क में क्या उत्तर देता है?
- 2- 'दिनोदिन गहराते पानी के संकट' से बचने के लिए क्या आज का युवा वर्ग 'इन्द्र सेना' की तर्ज पर कोई सामूहिक आन्दोलन प्रारम्भ कर सकता है? अपने विचार लिखिए।
- 3- पाठ के आधार पर जल और वर्षा के अभाव में गाँव की दशा का वर्णन कीजिए।
- 4- लेखक जीली के तर्कों के सामने अपने को असहाय क्यों मानता है?
- 5- इन्द्र सेना पर पानी फेंके जाने पर लेखक की जीजी उसकी मान्यताओं को किस प्रकार छिन्न-भिन्न कर देती है स्पष्ट कीजिए।
- 6- लेखक ने लोकमान्यताओं के पीछे छिपे तर्क को उभारा है आप भी किसी अन्धविश्वास के पीछे छिपे तर्क को स्पष्ट कीजिए।
- 7- कैमरे में बंद अपाहिज करुणा के मुखौटे में छिपी क्रूरता की कविता है- विचार स्पष्ट कीजिए।
- 8- हम समर्थ शक्तिवान और हम एक दुर्बल को लौएंगे पंक्ति के माध्यम से कवि ने क्या व्यंग्य किया है?
- 9- पंरदे पर वक्त की कीमत है कहकर कवि ने पूरे साक्षात्कार के प्रति अपना नजरिया किस रूप में रखा है?
- 10- यदि आप इस कार्यक्रम के दर्शक हैं तो टी0वी0 पर ऐसे सामाजिक कार्यक्रम को देखकर एक पत्र में अपनी प्रतिक्रिया दूरदर्शन निदेशक को भेजते हुए स्पष्ट कीजिए।
- 11- किसी भी दुर्घटना के साक्षी उस हादसे के प्रति प्रायः उदासीन रहते हैं। उनकी हृदयहीनता की चर्चा करते हुए किसी समाचार के संपादक को पत्र लिखिए।
- 12- 'सूचना का अधिकार: जनता के हाथ एक नायाब हथियार' विषय पर एक फीचर लेखन कीजिए।
- 13- 'राजनीति में चरित्रवान लोगों की आवश्यकता' विषय पर एक आलेख लिखिए।
- 14- 'जलवायु परिवर्तन: कितना अनर्थकारी' विषय पर निबन्ध लिखिए।
- 15- 'शिक्षा के क्षेत्र में आधारभूत चुनौतियाँ' विषय पर निबन्ध लिखिए।

P.H.E

Unit – 1- Plannig in sports

- Meaning & objectives of Planning
- Various committees & its Responsibilities
- Tournament- knock out, League or Round Robin & combination
- Procedure to Draw fixture-Knock-out (Bye & seeding) & League (Stair case & cyclic)
- Internal & Extramural- Meaning objectives & its significance.
- Specific sports Programme (Sports day, Health Run, Run for fun, Run for specific cause & run for unity)

Unit-2- Adventure sports & Leadership Training.

- Meaning & objectives of Adventure sports
- Types of Activities- Camping, Rock Climbing, Tracking, River Rafting & Mountaineering
- Material Requirement & Safety Measures
- Identification & Use of Natural Resources
- Conservation of Surrounding
- Creating Leaders through Physical Education

Unt-3- Sports and Nutrition

- Balanced Diet & Nutrition: Macro & Micro Nutrients
- Nutritive & Non-Nutritive components of Diet
- Eating Disorders- Anorexia Nervosa & Bulimia

Project-Business Studies

All the students of class XII commerce will prepare their project report. Individually according to the topic and submit till 15 july 2017.

Note- Each students will prepare two files one file from Part-A and other are from Part-B.

Project-Economics

All the students of class XII commerce will prepare their Project report. Individually according to the topic and submit till 20 july 2017.

Economics

- 1- How does Taxation Policy help the government to increase in Revenue?
- 2- How fiscal policy is used to reduce deficit demand in the economy?
- 3- Explain the role of following in correcting (i)- Open Market Operation
- 4- Why should planned saving & investment be equal at equilibrium at level of income? Explain with the help of diagram.
- 5- Explain the concept of Inflationary Gap. Also explain the role of legal reserve in reducing it.
- 6- Draw on a diagram straight line saving curve for an economy. From it derive the consumption curve. Explain the method of derivation a point on the consumption curve at which Propensity to consume is equal to 1.
- 7- Explain the meaning of inflationary deflationary gap with the help of diagram.
- 8- Give two sources each of demand & supply of foreign exchange. Giving reason explain the relation b/w FFR & supply of foreign Exchange rate.
- 9- How is the foreign exchange rate determined with the help of diagram?
- 10- Explain the restriction b/w autogram & accounting transactions in BOP & also explain the concept of Payments Define in this context.
- 11- Explain the concept of Revenue Deficit in a Government Budget. What does this deficit indicates?
- 12- What does mean by fiscal Deficit & Revenue Deficit? What problem can save fiscal Deficit create?

Numerical

- 1- Determination Income & Employment
- 2- Government Budget
- 3- BOP

Project work for Board exam 2017-18 Part – A (Accountancy)

- 1.4.2017 Assets- Cash `80,000 cash at bank ` 20,000 stock ` 54,000 debtors `47000 (Ashok `12000, Raman `15,000 Vivek `20,000)
Liabilities- Creditor `20,000 (Deepak `7,000 Ompal `13,000 Capital `2,00,000)
- 2.4.17 Goods purchase & Payment Paid by Cheque `10,000
- 3.4.17 Cash sales` 40,000 out of this amount `30,000 deposited into Bank.
- 4.4.17 Placed on fixed deposit account at bank by Transferring from current account `20,000
- 5.4.17 Ravi who owed us `10,000 who is declared insolvent & 30 Paise per rupee received from his estate.
- 6.4.17 Salary due to Clerks `5,000
- 7.4.17 Paid to Sita `9,650 in full Payment & her dues `10,000
- 12.4.17 Fire Insurance premium on building paid by cheque `1,000 & proprietorship Life insurance premium by cheque` 4,000
- 15.4.17 Purchase from Sudhir `60,000
- 17.4.17 Goods worth `5,000 distributed as free sample
- 20.4.17 Charge Depreciation @ 10% p.a for 2 months on purchasing of Machine `30,000
- 22.4.17 Purchase goods from Raghav for `40,000 & paid C.S.T. @ 8%.
- 26.4.17 Purchase goods from Azad Ltd. For `40,000 less trade discount 15% plus vat @ 10%
- 28.4.17 Sold goods costing `45,000 to Ashok at a profit of $33\frac{1}{3}\%$ on cost less 20% Trade discount.
- 30.4.2017 Goods worth `10,000 were destroyed by fire insurance co. admitted & paid claim for 80%.

Math

- 1- if $Y = X^X$, prove that $y_2 - \frac{1}{y} \times y_1^2 - \frac{y}{x} = 0$
- 2- Differentiate $\tan^{-1} \frac{\sqrt{1+x-1}}{x}$ with respect to $\tan^{-1} \frac{10}{x}$.
- 3- If $y = (\tan^{-1} \frac{10}{x})^2$ prove that $(x^2+1)^2 y_2 + 2x (x^2+1) y_1 = 2$

- 4- If $x^{16}y^9 = (x^2+y)^{17}$, prove that $\frac{dy}{dx} = \frac{2y}{x}$
- 5- If $x^m y^n (x+y)^{m+n}$, prove that $\frac{dy}{dx} = \frac{y}{x}$
- 6- If $\log(x^2+y^2) = 2 \tan^{-1} \frac{x}{y}$ Prove that $\frac{dy}{dx} = \frac{x+y}{x-y}$
- 7- If $\sqrt{1-x^2} + \sqrt{1-y^2} = a(x-y)$ prove that $\frac{dy}{dx} = \sqrt{\frac{1-y^2}{1-x^2}}$
- 8- Prove that the semi vertical angle of the right circular cone of given volume and least curved surface area is $\cot^{-1} \sqrt{2}$.
9. of all the closed right circular cylindrical cans of volume $128\pi\text{cm}^3$, find the dimensions of the can which has minimum surface area.
- 10- Show that the semi vertical angle of the cone of maximum volume and given slant height is $\cos^{-1} \frac{1}{\sqrt{3}}$.
- 11- If the sum of the length of the hypotenuse and a side of a right triangle is given. Show that the area of triangle is maximum. When the angle between them is 60° .
- 12- Prove that height of cylinder of maximum volume that can be inscribed in a sphere of radius R is $\frac{2R}{\sqrt{3}}$. Also find the maximum volume.
- 13- A window is of the form of a semicircle with a rectangle on its diameter. The total perimeter of the window is 10m. Find the dimensions of the window to admit max length through the whole opening.
- 14- Prove that area of greatest rectangle that can be inscribed in an ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$
- 15- Show that $y = \log(x+1) - \frac{2x}{2+x}$, $x > -1$ is an increasing function of x , throughout its domain.
- 16- An open box with a square base is to be made out of a given quantity of metal sheet of area c^2 . Show that max volume of the box is $\frac{c^3}{6\sqrt{3}}$.
17. Sand is pouring from a pipe at rate of $12 \text{ cm}^3/\text{sec}$ the falling sand forms a cone on the ground in such a way that the height of cone on the ground is such a way that the height of cone is always one sixth of the radius of the base. How fast is the height of the sand cone increasing, when the height 134 cm.
- 18- Find the equations of normal to the curve $y = x^3 + 2x + 6$, which are parallel to the line $x + 14y + 4 = 0$
- 19- Prove that $\cos[\tan^{-1}\{\sin(\cot^{-1} x)\}] = \sqrt{\frac{1+x^2}{2+x^2}}$
- 20- Prove that $\tan\left(\frac{\pi}{4} + \frac{1}{2}\cos^{-1}\frac{a}{b}\right) + \tan\left(\frac{\pi}{4} - \frac{1}{2}\cos^{-1}\frac{a}{b}\right) = \frac{2b}{a}$

English- Bravia

Reading – Note making – 20,21,22,23

Writing – Invitation – 31 (Q.1) 32. (Q.3, Q.5) Letter- 39, 40, 43, 44 Article- 48,50 Speech- 51,52

Project of Physics- TOPIC-(1)-Electric charge and electric field (2)- Capacitance (3)- Potentiometer (4)- Earth Magnetism

(5)- Moving coil galvanometer (6)-Alternating current (7)- Electromagnetic waves (8)- Interference (9)- Polarization (10)- Optical Instruments (11)- Atoms and nuclei (12)- Radioactivity (13)- Semiconductor device (14)- Communication system (15)- Logic Gates (16)- Cyclotron

FILE FORMAT- (i)- Index (ii)- Acknowledgement (iii)- Certificate (iv)- Introduction (v)- Topics to be covered (vi)- Bibliography written in last page

Chemistry-

- Complete all the assignment which has been given.
- Write down answers of all the question there in N.C.E.R.T (intext question example & exercise) of all the chapters which has been studied.
- (Project work given to each student).

Biology- Make a project file on the topic which have already prescribed by the subject teacher.

BRB MODEL SCHOOL
Holiday Homework
Class – XII
Computer Science

Topics covered

- 1) SQL**
- 2) Review of class XI**
- 3) Networking**

1. Consider the following tables FACULTY and COURSES. Write SQL commands for the statements (i) to (v) and give outputs for SQL queries (vi) to (viii)

FACULTY

F_ID	Fname	Lname	Hire_date	Salary
102	Amit	Mishra	12-10-1998	12000
103	Nitin	Vyas	24-12-1994	8000
104	Rakshit	Soni	18-5-2001	14000
105	Rashmi	Malhotra	11-9-2004	11000
106	Sulekha	Srivastava	5-6-2006	10000
107	Niranjan	Kumar	26-8-1996	16000

COURSES

C_ID	F_ID	Cname	Fees
C21	102	Grid Computing	40000
C22	106	System Design	16000
C23	104	Computer Security	8000
C24	106	Human Biology	15000
C25	102	Computer Network	20000
C26	105	Visual Basic	6000
C27	107	Dreamweaver	4000

- i) To display details of those Faculties whose salary is greater than 12000.
- ii) To display the details of courses whose fees is in the range of 15000 to 50000 (both values included).
- iii) To increase the fees of all courses by 500.
- iv) To display details of those courses which are taught by 'Sulekha'.
- v) To display name of the Faculty whose salary is maximum.
- vi) Select COUNT(DISTINCT F_ID) from COURSES;
- vii) Select MIN(Salary) from FACULTY,COURSES where COURSES.C_ID = FACULTY.F_ID;
- viii) Select SUM(Fees) from courses Group By F_ID having count(*) > 1;
- ix) Select Fname, Lname from FACULTY Where Lname like "M%";

2. Study the following tables DOCTOR and SALARY and write SQL commands for the questions (i) to (iv) and give outputs for SQL queries (v) to (vi):

TABLE : DOCTOR

ID	NAME	DEPT	SEX	EXPERIENCE
101	John	ENT	M	12
104	Smith	ORTHOPEDIC	M	5
107	George	CARDIOLOGY	M	10
114	Lara	SKIN	F	3
109	K George	MEDICINE	F	9
105	Johnson	ORTHOPEDIC	M	10
117	Lucy	ENT	F	3
111	Bill	MEDICINE	F	12
130	Morphy	ORTHOPEDIC	M	15

TABLE : SALARY

ID	BASIC	ALLOWANCE	CONSULTATION
101	12000	1000	300
104	23000	2300	500

107	32000	4000	500
114	12000	5200	100
109	42000	1700	200
105	18900	1690	300
130	21700	2600	300

- i) Display NAME of all doctors who are in "MEDICINE" having more than 10 years experience from the table DOCTOR.
- ii) Display the average salary of all doctors working in "ENT" department using the tables DOCTOR and SALARY. Salary = BASIC + ALLOWANCE
- iii) Display the minimum ALLOWANCE of female doctors.
- iv) Display the highest consultation fee among all male doctors.
- v) To display records of all the doctors in ascending order of experience.
- vi) SELECT count(*) from DOCTOR where SEX = "F"
- vii) SELECT NAME, DEPT, BASIC from DOCTOR, SALARY where DEPT = "ENT" and DOCTOR.ID = SALARY.ID

3. Consider the following C++ declarations and answer the questions given below:-

```
class alpha
{
    int x,y;

    protected:
        void putvala( );
    public:
        void getvala( );
};
```

```
class beta : private alpha
{
    int m,n;
    protected:
        void getvalb( );
    public:
        void putvalb( );
```



```

};
class gamma : protected beta
{
    int a;
    public:
        void getdata( );
        void showdata( );
};

```

- i. Write the names of member functions, which are accessible from the object of class gamma.
- ii. Write the names of members, which are accessible from the member function of class beta.
- iii. Name the base class and derived class of class gamma.
- iv. Name the private member functions of class gamma.

4. Answer the questions (i) to (iv) based on the following :

```

class COMP
{ private :
    char Manufacturer [30];
    char addr[15];

    public:
    toys( );
    void RCOMP( );
    void DCOMP( );
};

class TOY: public COMP
{ private:
    char bcode[10];
    public:
    double cost_of_toy;
    void RTOY ( );
    void DTOY( );
};

```

```
class BUYER: public TOY
{ private:
char nm[30];
char delivery date[10];
char *baddr;
public:
void RBUYER( );
void DBUYER( );
};

void main ( )
{   BUYER MyToy;   }
```

1. Mention the member names that are accessible by MyToy declared in main() function.
2. Name the data members which can be accessed by the functions of BUYER class.
3. Name the members that can be accessed by function RTOY().
4. How many bytes will be occupied by the objects of class BUYER?

5. Rewrite the following program after removing the syntactical error , if any.
Under line each correction.

```
i) #include<iostream.h>
    const int Devidor 5;
    void amin( )
    {
        Number=15; for(int count=1;
        count<=5;count++) if( Number/ Devidor= = 0)
        cout<<Number/Devidor; cout<<endl;
    Else
        cout<< Number+Devidor<<endl;
```

```
ii)  # include <iostream.h>
const int Max 10;
void main ( )
{
    int Numbers [Max];
    Numbers = { 20, 50,10, 30,40 } ;
    for (Loc= Max-1 ; Loc > = 0 ; Loc - -)
    cout>>Numbers [Loc]; }
```

6. In the following C++ program what is the expected value of Myscore from
Options (i) to (iv) given below. Justify your answer.

```
a.  #include<stdlib.h>
    #include<iostream.h>
    void main( )
    {
        randomize();
        int Score[] = {25,20,34,56, 72, 63}, Myscore;
        Myscore = Score[2 + random(2)];
        cout<<Myscore<<endl; }
```

(i) 25

(ii) 34

(iii) 20

(iv) None of the above

b. Observe the following program RANDNUM.CPP carefully. If the value of VAL entered by the user is 10, choose the correct possible output(s) from the options from i) to iv) and justify your option.

```
//program RANDNUM.CPP
#include<iostream.h>
#include<stdlib.h>
#include<time.h>
void main()
{
    randomize();
    int VAL, Rnd; int n=1;
    cin>>VAL;
    Rnd=8 + random(VAL) * 1;
    while(n<=Rnd)
    {
        cout<<n<< "\t";
        n++;
    }
}
```

output options:

i) 1 2 3 4 5 6 7 8 9 10 11 12 13

ii) 0 1 2 3

iii) 1 2 3 4 5

iv) 1 2 3 4 5 6 7 8

7. Define the following:

a) Primary Key b) Candidate Key c) Alternate Key d) Foreign Key e) Tuple
f) Attribute g) Cardinality h) Degree i) Relation.

8. List any four advantages of DBMS.

9. List any for RDBMS packages.

10. Revise the notes of networking.