Class – XI

English

Q 1 Migration of professionals from developing countries has become a major concern. Write an article on " Brain Drain" in about 150-200 words . You are Asha/Ashwini.

Q2 You are Sagar living at house no. 333/3A CR Park New Delhi. Write a letter to the editor of a newspaper regarding wastage of money in election.

Q3 Draft an application for job for the post of an accountant in GY Solutions Pvt. Company Chennai in response to their advertisement that appeared in the Times of India. Enclose a copy of resume . You are Vijay/Vijaya.

Q4 Drug addiction is destroying the foundations of development of an individual and nation as a whole. Several measures need to be adopted to control this destructive habit among the adults. Write a speech on the topic –" Drug Addiction" to create awareness among youth.

Q 5 Mention the way in which sparrows expressed their sorrow when the author's grandmother died.

Q 6 Author's grandmother was strong in character . Give proper illustrations to prove it.

Q 7 What is the central idea of the poem, 'A Photograph'

Q 8 Read the novel Canterville Ghost and prepare summary of the same.

Hindi

i) लेख लेखन हेतु - भाग्य और पुरुषार्थ, समय का सदुपयोग, परिश्रम का महत्व
ii) रिपोर्ट (प्रतिवेदन) - विद्यालय में शिक्षक दिवस समारोह की रिपोर्ट, वादविवाद प्रतियोगिता की रिपोर्ट, अपने इलाके में आयोजित नशा मुक्ति अभियान की रिपोर्ट।
iii) फीचर लेखन हेतु - महानगरों में बढ़ते अपराध, मोबाइल के सुख-दुख, कर्ज में डूबा किसान।
iv) दूरदर्शन पर प्रसारित कार्यक्रमों की समीक्षा करते हुए उनकी गुणवता बढ़ाने का निवेदन करते हुए निदेशक दिल्ली दूरदर्शन, संचार भवन नई दिल्ली को पत्र लिखें।
अपने शहर की टूटी-फूटी सड़कों की दयनीय दशा का उल्लेख करते हुए नगर पालिका अध्यक्ष को एक शिकायत पत्र लिखें।

Maths

Exercise 1.3, 1.4, 1.5, 1.5.

Misc Ex Ch – 1, Q 13, 14, 15, 16

Exercise 3.1, 3.2, 3.3

Misc Ex Ch - 3

Physics

1. Solve for x : $2x^2+5x-12 = 0$
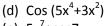2. The value of acceleration due to gravity (g) at a height (h) above the surface of Earth of Radius (R) is given by

$$g' = \frac{gR^2}{(R+h)^2}$$

3. Write the value of 1 Right angle , 1^0 , 1^1 , and 1 radian.
4. Fill in the blanks :-
   (i)   Sin $(-\ominus)$= ....
   (ii)   Cos $(180-\ominus)$ = ...
   (iii)   Sin $(270-\ominus)$ = ...
   (iv)   Cos $(90+\ominus)$ = ...
   (v)   Sin $(90+\ominus)$ = ...
   (vi)   Tan $(90-\ominus)$ = ...
5. Fill in the blanks :-
   (i)   Sin (A+B) = ...
   (ii)   Cos (A+B) = ...
   (iii)   Sin 2A = ...
   (iv)   Cos (2A) = ...
6. Differentiate the following with respect to x (w.r.t.x).
   (a) Cos (5x+b)
   (b) Sin $(3x^2+4x)$
   (c) $e^{(3x^2+3x)}$
   (d) $5x^4+3x^3-2x^2+5$
   (e) $(x^2+2x)(x^2-3x)$
   (f) Log (ax+b)
   (g) $\frac{2x+5}{3x-6}$
   (h) $\sqrt{x^4+2x}$
   (i) Sin (5x) cos (6x)
   (j) e^{x^2}
7. Find the integration of the following with respect to x(w.r.t.x)
   (a) $5x^3$
   (b) $4x^3+3x^2+e^x$
   (c) Sin $(2x^3+4x)$

(d) $\cos(5x^4+3x^2)$

(e) $5x^7+\cos 7x$

(f) $\dfrac{1}{ax+b}$

(g) $\left(x+\dfrac{1}{x}\right)$

(h) $\left(x^2-\cos x+\dfrac{1}{x}\right)$

(i) $(x^2+3x)^{-3}$

(j) $\sqrt{ax+b}$

8. Write fundamental and supplementary quantities and there units .

9. Write the prefix values of following:-

(a) 1 fermi

(b) 1 angterm

(c) 1 micron

(d) 1 light year

(e) 1a.m.u

(f) 1 Parsec

10. Write the dimension of

(a) Work

(b) Power

(c) Energy

(d) Force

(e) Kinetic Energy

(f) Stress

(g) Thrust

(h) Surface Tension

(i) Surface Energy

11. Check the accuracy of the relation :-

(i) $\frac{1}{2}\,mv^2 = mgh$

(ii) $v^2-u^2 = 2as$

(iii) $S = ut+\dfrac{1}{2}\,at^2$

12. Dimensionally show that $T= 2\pi\sqrt{\dfrac{l}{g}}$

13. Derive second equation of motion by calculus method.

14. Derive third equation of motion by graphical method.

15. What is instantaneous acceleration write its formula and SI UNIT.

Chemistry

1. Why can't solids be compressed?
2. Liquid take the shape of the container in which they are placed. Why?
3. Give two examples of a homogeneous mixture.
4. Write the SI unit of temperature.
5. Define law of multiple proportions.
6. Calculate the mass percentage of Na and Cl atoms in common salt.
7. Calculate the number of electrons in 17.0g NH_3.
8. Calculate the number of atoms present in 64.0 u in helium.
9. Calculate the number of g-atoms of sulphur in 8.0g sample.
10. How are 0.5 mol Na_2CO_3 and $0.5Na_2CO_3$ are different from each other?
11. State the law of defininte proportions. Explain it with the help of an example.
12. Write the difference between a homogeneous and a heterogeneous mixture.
13. How much Cu can be obtained from 100 g $CuSO_4$.
14. A Compound contains 4.07% hydrogen, 24.27% carbon and 71.65% chlorine. Its molar mass is 98.96 g. Determine its empirical and molecular formulas.
15. Define molality of a solution. How is it different from molarity?
16. Give modern periodic law.
17. What are dobereiner's triads?
18. What are the defects of long form of the periodic table?
19. What is diagonal relationship? Explain it with the help of Be and Al.
20. What is electron gain enthalpy? On what factors it depends? Chlorine has greater electron gain enthalpy the fluorine.
21. Describe briefly the merits and demerits of Modern periodic table.

Computer Science

Q1. **Number System:**
Binary to decimal

i)   100010
ii)   101010
iii)   100100
iv)   100101

Decimal to binary

i)   256
ii)   789
iii)   243
iv)   376

Hexadecimal to binary

     i)   2AF
     ii)   ACD
     iii)   FCD
     iv)   ABC

Decimal to Hexadecimal

     i)   267
     ii)   876
     iii)   987
     iv)   736

Octal to binary

     i)   675
     ii)   345
     iii)   456
     iv)   345

Q2. Write a program to find reverse of two digit nos.

Q3. Write a program to find series of even nos.

Q4. Write a program to find series 1,2,4,7,_____.

Q5. Write a program to find area of circle.

Q6. Write a program to find greatest of three nos.

Q7. Write program to find sum ,add, area of square using switch case.

Q8. Write a program to find reverse of two digit nos.

Q9. 2's complement of 65 ,75, 120.

Q10. 100, _____,_____,_____,_____.

Q11. 1000000+ 1001010

Q12. 11110-101

Q13. 100010-1001

Q14. 2's complement of 10000,101010,101010.

Q15. Full form of:

a) ASCII   b) RAM   c) SMPS   d) MICR   e) OCR
    f) ALU
g) UPS   h) MODEM   I) EROM   J) EEROM   K) OCR   L) IP

Q16. SHORTCUT KEYS:

A) CTRL+F
B) CTRL+O
C) CTRL+P
D) CTRL+U
E) CTRL+B

Biology

Q 1 –What is inflorescence ? differentiate racemose and cymose inflorescence

Q2 –Define actinomorphic and bisexual flower .

Q 3 – Name two plants medicinal plants of each –

    A – solanaceae

    B – lilaceae

    C – fabaceae

Q 4 – Draw hypogynous and epigynous flower

Q 5 – Write any four anatomical differences between monocot and dicot stem .

Q 6 – Explain vaxillary and twisted aestivation .

Q 7 – Draw T.S of monocot stem .

Q 8 – Differentiate heartwood and sapwood .

Q 9 – Define -

    Meristematic tissue

    Closed vascular bundles

Q 10 – What is periderm ? how does periderm formation take place in the dicot stem .

Q 11 – What is herbarium ?

Q 12 –Who proposed five kingdom classification . name the five kingdoms ,how it differ

    from two. Kingdom classification .

Q 13 – Draw L.S of phloem and label its part '

Q 14 – Make a table showing taxonomical classification of man and wheat '

Q 15 – Maize grain is monocot / dicot . justify your answer with help of diagram'

Q 16 – Expand ICBN

Q 17 – Who proposed binomial nomenclature . what is it '

Q 18 – Name two famous botanical gardens of India '

Q 19 – Following feature are related to which phylum

    a-choanocyte

    b-maipighian tubule

    c- nephridia

d-water vascular system

Q 20 – Differentiate chordate and non chordate.

Q 21 – Prepare a list of some animals that are found parasitic on human body.

Q 22 – How the sub phylum vertebrata is classified .

Q23 – What do mean by poikilothermous and homoiothermous .

Q 24 Collect and paste dried pressed specimens of following in your practical file –

Q 25 – Tap root and fibrous root

Q 26 – Leaf showing its parts

Q 27 – Types of leaves - simple and compound leaves , pinnately , palmately

Q 28 – Different types of phyllotaxy – alternate , opposite , whorled

Q 29 – Different types of venation – reticulate and parallel .

Q 30 – Learn the lessons 1,2,5,6 .

Physical Education

1. Make a project file on your favourite game.
2. Lesson 1, 2 and 3 written in copy. 5 essay type questions from each chapter.
3. Prepare a Power Point Presentation on any of Cricket World Cup Match

Accounts

(1)   Revise your syllabus fully covered upto 16.05.17

(2)   Prepare journal of questions from QN. 1 to QN.33 i.e practical problems page no. 8.51 to 8.59 T.S. Grewals Double Entry Book-keeping [Financial Accounting Book].

B. Studies

(1)   Revise your syllabus fully covered upto 16.05.17

(2)   Write answer of the following questions – Nature and Purpose of Business

Very short answer type :- From QN.1 to QN.11 (page no. 24)

Short answer type :- From QN.1 to QN.15 (page no . 24 & 25)

Long answer type questions :- From QN.1 to QN.7 (page no . 25)

Project work :- Project No. 1& 2 (page no . 26) **[** Saraswati Business studies Book **]**

Economics

Prepare the project report on the following topic:
(Use internet, journals ,published articles to collect the information if required)

DO ANY ONE:
1. Prepare a Report on Demographic Structure of your neighbourhood.
2. Prepare a project report on Changing Consumer Awareness Amongst Households.

Write the answers of the following questions in a separate homework copy

1. A brief review of the state of Indian Agriculture,Industry,ForeignTrade,Occupational Structure on the eve of Independence.
2. Common Goals of Five Year Plans (long Term).
3. Problems being faced in Indian Agriculture System.
4. Reforms in indianAgriculture.: Technical Reforms, Institutional Reforms And General Reforms.
5. Scope and Importance Of Statistics in Economics.

*****note: write all the questions in detail.

History

Topic: Collect some pictures of tools and implements used in civilisation Neolithic man. Compare them with modern tools and implement (agricultural) being used in cultivation. Do you find Neolithic tools relevant even today?
Show some important sites of the early man on the political map of world.

Topic: Tablets are made by Mesopotamanian people and why they needed separate tablets? Discuss Mesopotamian contributed to the world civilisation?
Show some cetres of Mesopotamian civilisation on the political map of world of central asia.

Geography

1. Learn {CH-1,2,3} from book-1
   Learn {CH-1,2} from book-2
2. Write down 5 questions{1 marks},5 question{3 marks} and 5 questions   {5
   marks} from;{CH-1,2,3} BOOK-1
                    {CH-1,2} BOOK-2

NOTE:{15 questions from each chapter}

3. Prepare a Power Point Presentation on
   The Topic- Natural Disasters
                    1.Earthquake
                    2. Volcano
                    3. Drought
                    4. Landside