Q 1. Read the passage given below and answer the questions that follow:

One day, I hopped in a taxi and we took off for the airport.We were driving in the right lane when suddenly a car jumped out of a parking space right in front of us. My taxi driver slammed on his brakes, skidded and missed the other car just by inches! The driver of the other car whipped his head around and started yelling at us. My taxi driver just smiled and waved at the guy. And I mean he was really friendly.

So I asked ,'why did you just do that? This guy almost ruined your car ad sent us to the hospital!'

This is when my taxi driver taught me what I now call the ' The Law of the Garbage Truck'. He explained that many people are like garbage trucks. They run around full of garbage, full of anger, and full of disappointment.As their garbage piles up, they need a place to dump it and sometimes they'll dump it on you. Don't take it personally, Just smile, wave, wish them well, and move on. Don't take their garbage and spread it to other people at work, at home, or on the streets.

The bottom line is that successful people do not let garbage tucks take over their dy. Life's too short to wake up in the morning with regrets , so………'Love the people who treat you right . Forgive the ones who don't .This attitude will help you sail through life. There will be fewer jerks and bumps. Learn to take the bad with the good for life can never be perfect . Acceptance of what is, is the solution. Don't react; just accept and you will be a lot more happy. Life is ten percent what you make it and ninety percent how you take it !

Answer the following questions given below:
a)   How did the taxi driver avert an accident?
b)   The narrator learnt an invaluable lesson from the taxi driver. What was it?
c)   The term 'garbage' in the context of the passage means……
d)   The narrator boarded a taxi [i] ………. When all of sudden a car jumped [ii] …………
Give words from the passage that mean the same as………
i] to slide   ii] feeling of defeat.

Section B – Writing and Grammar

Q You are Saharsh, a student of an International School, Hyderabad. It is a Tree Plantation Week. You have to give a short speech on tree plantation and our ecological system. Study the information given below about the trees. Using the information given below, along with your own ideas, write an article stressing upon the importance of trees and their plantation and making some practical suggestions in about 120 words. (4)
➢   Afforestation
➢   Prevents soil erosion
➢   Ecological balance
➢   Relationship between layers of environment
➢   More greenery-less pollution

Q Look at the words and phrases below. Rearrange them to form meaningful sentences. Write the correct sentences in your answer sheet
a)   more than / are child workers / the Indian population / five percent of
b)   engaged / in agriculture / tens of thousands / are chiefly

c) work / in urban areas / many of industries/ in a variety

Section C –Literature

Q Answer the following question in about 30-40 words.

If you had been in place of the nightingale, what would have you done on the following occasions?
a) When the frog did not appreciate your talent
b) When the frog asked you to stretch yourself and sing all night

Q6. Answer any ONE of the following value based question in about 80-100 words.
a) Why do you think the narrator bought wild strawberries from the two boys, though his driver had suggested that he could get better strawberries in town? Justify.

OR

b) What should the nightingale have realized when the frog and other creatures listened to her song for the first time? What could have been the consequences after this realization? What would have been the outcome of the story?

SCIENCE

1 A substance X is used for photography and decomposed to form substance A and B.Identify X,A and B.

2 Give the characteristic tests for the – (a) carbon dioxide (b) hydrogen

3 Write the chemical reactions for the following-

a) Electrolysis of water
b) Burning of natural gas
c) Decomposition of calcium carbonate
d) Burning of Mg ribbon in air
e) Burning of copper powder in china dish
f) Decomposition of ferrous sulphate

4 A small amount of substance X when added in water it gives substance Y which on reaction with carbon dioxide gives substance Z.Identify X,Y and Z.

5 Give reasons-

a) All decomposition reactions are endothermic.
b) Respiration is exothermic.
c) Displacement reactions are redox reactions

6 Balance the following equations-

a) $HNO3 + Ca(So4)$---------- $Ca(No3)2$
b) $NaOH + H2So4$----------$Na2So4 + H2o$
c) $NaCl + AgNo_3$----------$AgCl + NaNo_3$
d) $BaCl_2 + H_2So_4$-------------$BaSo_4 + HCl$
e) $BaCl_2 + H_2So_4$--------------$BaSo_4 + HCl$
f) $Al + CuCl_2$ ------------$AlCl_3 + Cu$
g) $BaCl_2 + K_2So_4$------------- $BaSo_4 + KCl$

h) $AgNo_3 + CuCl_2$ ---------- $AlCl_3 + Cu$

i) $FeSo_4$ ---------------------- $Fe_2o_3 + So_2 + So_3$

j) $Al + FeSo_4$ _____ $Al_2So_4 + Fe$

k) $Na + H_2o$ _____ $NaOH + H_2$

l) $CuSo_4 + NaOH$ --------- $Cu(oH)_2 + Na_2So_4$

m) $KClo_3$ ------- $KCl + O_2$

n) $TiCl_4 + Mg$ ---------- $Ti + MgCl_2$

o) HgO --------- $Hg + O_{2S}$

p) $CuSo_4 + KI$ --------- $Cu_2I_2 + K_2So_4 + I_2$

q) $Al + ZnCl_2$ _____ $AlCl_3 + Zn$

r) $KMno_4 + H_2o + So_2$ -------- $K_2So_4 + MnSo_4 + H_2So_4$

s) $Mg + N_2$ -----------Mg_3N_2

Mathematics

1. The traffic lights at three different road crossings change after every 48 seconds, 72 seconds and 108 seconds respectively. If they change simultaneously at 8 am , at what time will they change together again?

2. The HCF of 65 and 117 is expressed in the form 6m -117. Find value of m. Also find LCM of 65 and 117 using prime factorization method.

3. Show that square of any positive odd integer is of the form 8m+1 for some integer m.

4. if α and β are zeros of quadratic polynomial p(x) = $x^2 - (k+6)x + 2(2k-1)$. find the value of K. If $\alpha + \beta = 1/2\alpha\beta$.

5. What should be added polynomial $x^3 + 2x^2 - 9x + 1$ so that it divided by x+4.

6. If $If \; \alpha, \beta \; and \; \gamma$ are the zeros of the polynomial $6x^3 + 3x^2 - 5x + 1$ then find the value of $\alpha^{-1} + \beta^{-1} + \gamma^{-1}$.

7. If two zeros of the polynomial $x^4 - 3x^3 - 20x^2 - 6x + 36$ are $\sqrt{2} \; and - \sqrt{2}$, find other two zeros.

8. Solve for $x \; and \; y$ $\frac{a^2}{x} - \frac{b^2}{y} = 0$; $\frac{a^2 b}{x} + \frac{b^2 a}{y} = a + b$

9. Solve graphically $2x + 3y = 12$; $x - y = 1$

10. The sum of numerator and denominator of a fraction is 8. If 3 is added to both numerator and denominator, the fraction becomes $\frac{3}{4}$. Find the fraction.

11. Ram Dass can row down stream 18 km in 2 hours and upstream 9 km in 3 hours. Find the speed of rowing in still water and speed of current.

12. Father's age is 3 times sum of the age of his two children. After 5 years his age will twice the sum of ages of his two children. Find the father age.

13. Find the value of a and b for which the system of equation have many solutions.
$3x - y = 14; (a+b)x - 2by = 5a + 2b + 1.$

14. Solve for x $\frac{x+1}{x-1} + \frac{x-2}{x+2} = 4 - \frac{2x+3}{x-2}$

15. Solve for x $\frac{1}{a} + \frac{1}{b} + \frac{1}{x} = \frac{1}{a+b+x}$

विषय -हिंदी

प्रश्न :-

1- निंदक के ल्एि कवि ने क्या करने की प्रेरणा दी है?

2- कबीर जी संसार को देखकर दुखी क्यों होते हैं ?

3- 'अपना तन शीतल करै,औरन को सुख होई '- पंक्ति कवि ने किस संदर्भ में कही है?

4- मीराबाई की दो विशेषताएँ लिखिए।

5- दूसरे पद में भक्ति के विषय में हमें मीरा जी क्या संदेश देना चाहती हैं?

6- 'अंधे के हाथ बटेर लग गई' - यह कथन भाई साहब ने किस संदर्भ में कहा?

SOCIAL SCIENCE

Q1: Differentiate between economic and non- economic activities. Give any three points.

Q2: In what ways can employment being increased in urban area.

Q3: How would income and employment increases if farmers were provided with irrigation and marketing facilities ?

Q4: What is an unorganised sector. Give any three disadvantages of unorganized sector.

Q5: What do you mean by organized sector? Give three advantages.

Q6: Explain the objectives of implementing NREGA 2005.

Q7: Why is the public sector required to provide certain things at a reasonable cost?

Q8: Why is tertiary sector is also known as service sector?

Q9: How is the tertiary sector gaining importance in India?

Q10: What historical changes have been brought about in primary, secondary and tertiary sector?

Q11: What is skill development? How does it help in creating employment?

Q12: What are the different types of employment in India?

Q13: How can workers be protected in unorganized sector?

Q14: Distinguish between public sector and private sector?

Q15: What are various ways to provide employment opportunities in rural areas.

Q16: "When a country develops the contribution of primary sectors declines and that of secondary and tertiary sector increases". Analyse the statement.

Q17: "There has been a big change in the 3 sectors of economic activity in India but a similar shift has not taken place in the sphere of employment." Explain the above statement on the basis of facts.

Q18: Why it has been estimated by 2025, nearly 2 billion people will face acute water scarcity.

Q19: What was considered as a viable alternative to the multipurpose project and why?

Q20: Irrigation has changed the cropping patterns of many regions with farmer shifting to water intensive and commercial crops. Mention its ecological consequences.

Q21: Explain 3 ways in which irrigation schemes have changed the social landscape of region.

Q22: Write the features of the tanks built in the houses of Bikaner, Jaisalmer etc.

Q23: Explain various problems associated with the poor people due to the construction of large dams.

Q24: How can employment opportunities be generated in tourism and information technology sectors?

Q25: How far is it correct to say that in recent years India has experienced some significant changes in the contribution of GDP services sector? Explain.

Q26: Why a large no. of workers are forced to enter in unorganized sector?