APPENDIX - V

Post-Achievement Test
Standard VIII
English

Time : 90 Minutes
Note : Answer all Questions.

Marks : 50

Section I 30 X 1 = 30

Fill in the blanks choosing the right words from the given list

1. Mani is a lawyer, ----- he?
   (isn't, doesn't, is)

2. After she ---- the address on the envelope, she posted it.
   (has written, wrote, had written)

3. Bombay is the ----- city in India.
   (expensive, more expensive, most expensive)

4. The Chief Minister ------- Tanjore next month.
   (visits, has visited, would visit)

5. She ----- to attend an interview in Madras next week.
   (must, has, need)

Find the odd man out

6. rose, lotus, brinjal, lily
7. smell, beat, taste, feel
8. thunder, winter, summer, spring
9. dog, cow, cock, donkey
10. rice, wheat, mice, milk
Rewrite as directed

11. Drive slowly, otherwise you will meet with an accident. (Combine using 'Unless')

12. I wish I had a car. (Use 'would rather')

13. He was climbing up a tree. He fell down. (Use 'while')

14. Rose is the most beautiful of all the flowers. (Use 'more beautiful')

15. The company announced a bonus. It wanted to put down the strike. (Combine using 'in order to')

Fill in the missing letters and write the words

16. A carrer in the defence is not only exciting but also financially att--ctive.

17. Being an expe--enced pilot Jack knew that their plane was flying towards France.

18. One section takes and com--les the weather data.

19. I congra--late you, Dam. You're homest.

20. The judge gave the pun--hment.

Read the following passage and answer the questions

She went down to call Behrman up to be her model for a drawing. He was a painter who lived on the ground floor beneath them. He was past sixty and his ambition was to paint a masterpiece, but he had never yet begun it.

Questions:

21. What was Behrman?
22. Where did he live?
23. How old was Behrman?
24. Why did she go down to call Behrman?
25. What was Behrman's ambition in life?
Here is a conversation between two friends. Write suitable questions and answers

Vasu : Where —--?
Nathan : I am going to the library.
Vasu : How far is it from here?
Nathan : --- a kilometer.
Vasu : Are you a member in the library?
Nathan : Yes, ----
Vasu : How many ----?
Nathan : I can borrow two books at a time.
Vasu : When ----?
Nathan : I should return the books within two weeks.

Section II 5 X 2 = 10

1. What are the awards for meritorious services in the forest?
2. Why did Jack grow nervous in the German Chief's room?
3. Why was McIntyre very confident of his machine?
4. Why did Dan's father kill the dog?
5. Why did Dan come to the white house?

Section III 2 X 5 = 10

1. Describe the 'Brain' of McIntyre's machine.
2. How did Dan save the life of his brother Will Ripley?
Post-Achievement Test

Standard VIII

Mathematics

Time : 90 Minutes  
Marks: 50

Note : Answer all Questions.

Section I  

15 X 1 = 15

Choose the best answer

1. Volume of a cube is 27 cm. Then the length of one edge is
   a) 9 cm   b) 3 cm   c) 0.3 cm   d) 4.5 cm

2. 1 liter is
   a) 100 cm    b) 10 cm    c) 1000 cm   d) 10000 cm

3. 26, 0, 47, 38, 9 the mean of these numbers is
   a) 30   b) 24   c) 20   d) 120

4. ------ number of independent measurements required to draw a Rhombus.
   a) 2   b) 3   c) 4   d) 5

5. Inner radius is 10 cm. Outer diameter is 24 cm. Then the width of the ring is
   a) 14 cm   b) 2 cm   c) 7 cm   d) 4 cm

Fill in the blanks

6. 1 Are = ------ m

7. 30 m = ------ kilo liters.

8. In a quadrilateral if the opposite angles are ------ then it is a cyclic quadrilateral.

9. The fractional form of 65% ------

10. \( \sqrt{0.25} = ---- \)
State True or False

11. 20% of 1 kilogram = 200gm
12. We cannot draw a line of symmetry for a parallelogram
13. 512 is a square number
14. $R = r + w$
15. 0.16 is an irrational number

Section II

$5 \times 2 = 10$

1. $(-9x + 7m + 6) \times (-2m )$

2. Convert the following percentage into decimal 
   fraction $611 \times \frac{10}{-6}$

3. If $a = 5$, find the value of $a$

4. Find the least positive integer by which 507 may be 
   divided to make it a perfect square.

5. Find the value of $\sqrt{\frac{2^2}{9 + 12}}$

Section III

$5 \times 5 = 25$

1. Out of his income, a person spends 15% on house rent 
   and out of the remaining amount he spends 65% on 
   food. If the balance amount he has with him is 
   Rs. 2975, find his income.

2. The mean marks of 80 students in a test is 36. A 
   student scored 100. Two scored zero each. The mean 
   marks of 12 of the student is 15. Find the mean of 
   the remaining students.

3. A room is in the shape of a cuboid. Its measurements 
   are 85dm, 60dm, 42dm. Find the volume of air inside 
   the room. Find the total area of the four walls 
   inside.

4. Solve: $3x + 5y = 8$
   $4x + 7y = 11$

5. The outer circumference and inner circumference of a 
   circular ring are 154cm and 88cm respectively. 
   Calculate the width and area of the circular ring.
Choose the correct answer

1. The French people broke open the state prison
   a) Paris  b) Philadelphia  c) Bastile  d) London

2. The Indian sepoys marched into Delhi and proclaimed the Emperor of India.
   a) Nana Sahib  b) Kunwar Singh  c) Tantia Tope  d) Bahadurshah

3. The British wages war with Burma in 1824-26 and recovered
   a) Assam  b) Mandalay  c) Calcutta  d) Bengal

4. The first cotton mill in India was started in
   a) Madurai  b) Tirunelveli  c) Bombay  d) Bengal

5. Viswa Bharathi at Shantiniketan was established by
   a) Rabindranath Tagore  b) Gandhiji  c) William Bentick  d) Bharathiar

6. The age limit of the Indian citizen to vote is
   a) 21  b) 31  c) 18  d) 25

7. The chief of the Indian Naval staff is
   a) General  b) Admiral  c) Colonel  d) Captain

8. An example of sedimentary rock formed by Mechanical
   a) Dykes  b) Clay  c) Sand stone  d) Gypsum

9. The chief port of Burma is
   a) Rangoon  b) Chittagong  c) Colombo  d) Singapore

10. The suitable soil for the cultivation of cotton is
    a) Red soil  b) Alluvial soil  c) Laterite soil  d) Black soil
Fill in the blanks

11. The first European sailor to come to Indian was ----

12. Ram Mohan Roy supported _____ in banning the practice of Sati.

13. _____ become the first Indian Governor-General of India.


15. Ravi Varma painted legends from Indian _____

16. The news papers keep the people informed about the _____ and _____ of the Government.

17. The headquarters of the United International Children's Emergency fund is at _____

18. An oxbow lake is formed out of a _____

19. The World's highest peak is _____

20. The _____ season lasts during October and November.

Section II 10 X 2 = 20

1. What is meant by Industrial Revolution?

2. How was India divided after 1857?

3. How did the Zamindari system affect the cultivators?

4. What were the new forms of modern literary writing?

5. What are the causes for communalism?

6. What are the peace time activities of defence force?

7. What is the foreign policy of India?

8. How are beaches formed?

9. Why does Japan practice intensive cultivation?

10. What are the uses of manganese?
Section III

2 X 5 = 10

1. What were the reasons for the British success in India?

2. Discuss the factors affecting the climate of Asia.
Post-Achievement Test

Standard IX

English

Time : 90 Minutes
Note : Answer all Questions.

Marks: 50

Section I

Rewrite the following sentences with the correct tense forms of the verbs given in brackets

1. Wood ---- (float) on water.

2. If he ---- (come) earlier, the teacher would not have punished him.

3. No sooner did the robber see the police than he ---- (run) away.

4. Mother ---- (cook) food in the kitchen for two hours this morning.

5. My uncle ---- (live) in Delhi for three years.

Write the synonyms of the following words

9. Might 10. Fascinate

Form new words from the words given below using the prefixes and suffixes given

ir, un, in, ion, age

11. side 12. responsible 13. predict
14. holy 15. waste
Rewrite the following passage completing it with the right words from the given list:

(evacuated, crushed, rescued, human, cardoned off)

Recently an Indian Airlines plane with about 250 passengers ---- into a field. The police arrived at the scene and ---- the area. People in the plane were ---- safely. The police ---- the people living nearby. The villagers gave rice and butter milk as it is ---- to look after the injured.

Section II 10 x 2 = 20

Complete the dialogue

Ravi : I'm going to Bombay tomorrow.
Rajesh : How ----?
Ravi : I'll stay there for a month.
Rajesh : ---- train?
Ravi : No, I'm going by air.
Rajesh : Who ----?
Ravi : No one is coming with me.
Rajesh : ---- hotel?
Ravi : No, I'll stay with my friend.
Rajesh : What is your friend?
Ravi : ----.

Short answer type

1. Why does the tail of a comet appear on the side away from the sun?
2. How is the tail of a comet formed?
3. What did Nehru do to honour and surprise Toynbee when the latter came to India in 1957?
4. What was Nehru's most significant service to mankind?
5. What was the plan of the sub-collector to drive away the elephants?

Section III 2 x 5 = 10

1. The myths about the appearance of comets.
2. The first meeting between Nehru and Toynbee.

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Post-Achievement Test

Standard IX

Mathematics

Time: 90 Minutes
Marks: 50

Note: Answer all Questions.

Section I 15 X 1 = 15

Choose the correct answer from the given list

1. The coefficient of $x$ in \([(x -3x+4)-(2-3x +5x)] \) is
   a) -2  b) 4  c) -4  d) 2

2. If one of the equal sides of an isosceles right angled triangle is 8 cm its area is
   a) 8 sq.cm  b) 32 sq.cm  c) 16 sq.cm  d) 4 sq.cm

3. The quadrilateral whose diagonals are equal and perpendicular to each other is
   a) rhombus  b) rectangle  c) square  d) parallelogram

4. If $R$ is the range of the function \[\{(-1,1),(1,1),(2,4),(3,9)\} \] then $n(R)$ is
   a) 4  b) 9  c) 1  d) 3

5. If $M = \{0\}$
   a) $0 \setminus M$  b) $O \setminus M$  c) $\{0\} \setminus M$  d) $M = 0$

Fill in the blanks

6. The predecessor of 110 is ----- 5

7. If $\frac{2}{3} = \frac{x}{2}$ the value of $x$ is ----- 3

8. The measure of an angle of a regular hexagon is ----- 120

9. When a transversal cuts a pair of parallel lines the interior angles on the same side of the transversal are ----- 180

10. The degree of a zero polynomial is -----
State whether the following statements are True or False

11. The co-efficient of x in \((2x+3)(2x-3)\) is zero.

12. If the range of a function is a proper subset of the co-domain it is an into mapping.

13. If \(\frac{1}{x} + \frac{1}{y} = 2\) and \(\frac{x}{y} - \frac{1}{y} = -2\) the value of x is zero.

14. The formula for finding the area of a rhombus is \(A = \frac{d_1 d_2}{2}\).

15. If two lines cut each other the vertically opposite angles are complementary.

**Section II**

1. If the relation \(\{(4,10),(6,x),(y,20)\}\) is a direct variation function. Find the values of x and y.

2. Divide \((25x - 16y)\) by \((5x - 4y)\).

3. The side of a regular hexagon is 5 cm. Find its area.

4. In a right angled triangle the hypotenuse is 25 cm and another side is 7 cm. Find the third side.

5. If \(A = \{0,1\}\) and \(B = \{1,2,3\}\) enlist \(B \times A\).
Section III  

1. Find the product: $10111 \times 101$. Express your answer as a denary number.

2. The pupils of a class speak either Tamil or Malayalam. Out of the 50 pupils of the class 42 pupils speak Tamil and 13 pupils Tamil and Malayalam. Using a Venn diagram find the number of pupils who speak Malayalam.

3. If $(ax-x +2)-(4x -8x+a)+(9+bx+5x )=4+10x$. Find the values of $a$ and $b$.

4. I bought some Hero fountain pens at the rate of Rs.20 each and some Camel fountain pens at the rate of Rs.7 each. In total I bought 20 fountain pens for Rs.231. How many Hero fountain pens did I buy?

5. Solve: $3x-7y = 23$
   $2x+5y = -4$
Post-Achievement Test
Standard IX
Science

Time : 90 Minutes Marks: 50
Note : Answer all Questions.

Section I 25 X 1 = 25

Choose the correct answer

1. If a red object is viewed through green light it will appear
   a) black   b) yellow   c) green   d) violet.

2. The unit of the power of lens is
   a) dioptre   b) newton metre   c) newton   d) joule

3. If the radius of a concave mirror is 3cms, the focal length is
   a) 6 cms   b) 1.5 cms   c) 3cms   d) 4cms

4. Momentum of a body is stated under Newton's
   a) Third law   b) First law   c) Second law   d) Boyle's law

5. The pitch of a screw gauge is distance moved
   a) No of head scale   b) least count
   c) Number of complete rotation   d) Zero correction.

6. The percentage of Nitrogen in air is
   a) 21   b) 78   c) 100   d) 58

7. N.P.K. is a
   a) gas   b) fertilizer   c) liquid   d) heavy element.

8. Laughing gas is
   a) Nitrous oxide   b) Nitrogen-di-oxide
   c) HNO   d) N

9. The number of moles in a liter of water is
   a) 10   b) 55.6   c) 1/22.4   d) 1000

10. The long form of a periodic table contains
    a) 7 periods   b) 9 groups   c) 18 groups   d) 7 groups
11. "God created the universe", this is a
   a) cosmozaic theory  b) oparien's theory
   c) Darwin's theory   d) Theory of special creation

12. The genes contain an acid called
   a) D.N.A.   b) R.N.A.   c) I.A.A.   d) A.T.P.

13. Ring worm is caused by
   a) bacteria   b) insects   c) fungi   d) virus.

14. This is a disease by virus
   a) T.B.   b) cholera   c) pox   d) pneumonia.

15. The division of cytoplasm is called
   a) mitosis   b) meiosis   c) karyokinesis
   d) cytokinesis.

Fill in the blanks

16. The ---- is the shortest distance between initial
    and final position of a body.

17. ---- is the process of shaping a body so as to
    reduce air friction.

18. Gas undergoes ---- expansion due to increase of
    temperature under constant pressure.

19. To measure gas pressure ---- meter is used.

20. The nature of Ammonia is ----.

21. The compound largely used in photography is ----

22. NO is called ---- oxide.

23. The master substance in genes is ----

24. Uracil is found in ---- Acid.

25. The enzyme present in saliva is ----.
Section II  
5 X 2 = 10

1. State Boyle's law.
2. Define principal axis.
3. What are the uses of Nitrous oxide?
4. What are the preventive measures of *malaria*?
5. What is aquaregia?

Section III  
3 X 5 = 15

1. Describe an experiment to find the power and magnification of a convex lens.
2. Outline the uses of Ammonia.
3. Name the sources of food contamination.
Post-Achievement Test

Standard X

Science

Time : 90 Minutes  
Marks: 50

Note : Answer all Questions.

Section I  
20 X 1 = 20

Choose the best answer from the words given in the brackets

1. The lowest temperature obtained by a freezing mixture
   a) 23°C  b) -23°C  c) 0.23°C  d) 2.3°C

2. Total internal reflection prisms are used in
   a) Telephone  b) Television  c) Optical instruments  d) Transformers

3. The instrument based on the magnetic effect of electric current is
   a) Transformer  b) Galvanometer  c) Kew magneto meter  d) Dynamo

4. Used to cure thyroid cancer
   a) Radio chromium  b) Radio iodine  c) Radio sodium  d) Radio cobalt

5. One gram molecule of any gas has a volume of
   a) 2.24 liters  b) 22.4 liters  c) .224 liters  d) 24.2 liters

6. The electronic configuration of sodium is
   a) 2,4  b) 2,8,1  c) 2,8,7  d) 2,2,0

7. What happens to the melting point of metals on forming an alloy?
   a) Rises  b) Lowers  c) 0°C  d) Neutralises

8. Carbon black is prepared by using
   a) Ethane  b) Methane  c) Ethylene  d) Chlorine

9. Who discovered mitochondria?
   a) Benda  b) Altman  c) Robert Brown  d) Robert Mayer

10. The organ of offense and defence in coelenterata
    a) Malpighian tubules  b) Nematocysts  c) Flagella  d) Cilia
Fill in the blanks

11. The critical angle of crown glass is ----
12. The fundamental frequency is ------ to the length of the vibrating strings.
13. Electrons move in a fixed orbit without any ------
14. Three molecules of Acetylene join together to form ------
15. Gammexane is a common chemical used for ------
16. L.P.G. is a mixture of two or more ------
17. Hemoglobin combines with oxygen to form ------
18. Ribosomes are the sites of ------
19. The rainfall in a place is measured by ------
20. Penicillin is an ------ obtained from a fungus.

Section II

1. What do you mean by audible limits?
2. What is a step down transformer?
3. What are called radio isotopes? Who discovered them?
4. Name the important ores of sulphur.
5. What is tempering of steel?
7. What is the reason for Acromegaly?
8. What is called apical dominance?
9. What is tomato?
10. What is Smog? Write its effect in environment?
Section III  \hspace{1cm} 2 \times 5 = 10

1. How is phosphorus extracted from its ore?

2. Describe the structure of human ear.
Choose the correct answer

1. The leader of the revolution in Ghana was
   a) Dr. Nkrumah  b) Zaghol Pasha  c) Farouk
   d) Mohamed

2. The capital of Kanishka was
   a) Delhi  b) Purushapura  c) Kanishkapura
   d) Patna

3. The Dasavatara temple is located at
   a) Bhumara  b) Khoh  c) Deugarh  d) Ellora

4. The oldest religion in the world is
   a) Jainism  b) Christianity  c) Sikhism
   d) Hinduism

5. Quit India Movement took place in the year
   a) 1947  b) 1942  c) 1927  d) 1907

6. The present franchise Act reduces the voting age to
   a) 21 years  b) 35 years  c) 18 years  d) 16 years

7. The most important factor that led to the partition of India is
   a) Illiteracy  b) Communalism  c) Population
   d) Regionalism

8. The leading producer of Mustard in India is
   a) Uttar Pradesh  b) Kerala  c) Bihar
   d) Andhra Pradesh

9. The oldest and the famous industry of India is
   a) Paper industry  b) Large scale industry
   c) Textile industry  d) Ship building industry

10. The most sparsely populated area in India is
    a) Bihar  b) Kashmir  c) West Bengal  d) Punjab
Fill in the blanks

11. The International Court of Justice is located at —-.
12. —— was responsible for the establishment of Benaras Hindu University.
13. Our foreign policy was formulated by ——.
14. —— is the largest port of India.
15. Goods sent out of a country are called ——.

Section II 10 X 2 = 20

1. What were the causes for the Industrial Revolution?
2. Explain the origin of the caste system among the Aryans?
3. What are the teachings of Mahavira?
4. What is Rowlatt Act?
5. What are the peculiarities of our judicial system?
6. How can India check the rapid growth of population?
7. Name the member countries of the SAARC.
8. What types of forests are found in India?
9. What are the measures taken by the Government to avoid pollution?
10. Give the reasons for the migration of population from villages to towns.

Section III 3 X 5 = 15

1. Outline the contribution made by Moghuls to the growth of Architecture in India.
2. Write an essay on the problems of population in India.
3. Write an essay on the types of irrigation practiced in India.