Section-A (Reading)

1. Read the following passage carefully and answer the questions that follow: 8M

Being eco-friendly is in vogue. Whether on the ramp or at home, a large number of people are emphasizing the use of eco-friendly products, thereby doing their bit to protect environment. Eco friendly products are those products that inflict minimal or no harm to their environment. Made of natural elements, these products are not only safe but also add an artistic dimension to one's home. The products are made of environment sensitive materials such as recycled wood, deadwood, recycled paper. bamboo, jute, natural fiber and natural organic cotton. ''Grasses like sabai grass and vetiver can be woven to make mats, screens, bags and baskets. ''Old textiles can be used to make recycled paper, which can be used for packaging, lampshades, notebooks and other stationery. Recycled plastic can be used for containers and furniture.

Though there's been a lot awareness about using eco-friendly products, it is still not the first thing that people look when buying things for their homes. Eco-friendly products not only stand out in their looks, their durability is also high.'' The life cycle of these products can be up to fifty years,'' says Majumdar. There are many other benefits of using these products, you can help decrease pollution, the destruction of forests and other ecosystems, and the amount of waste sent to landfills. A simple and yet more effective way to live eco-friendly life is to either take public transportation for your daily commuting or try pooling in with your office colleagues to save fuel and reduce your carbon footprint. In addition to this, eco-friendly products are better for your health ,as they don't contain any harmful chemicals that can irritate skin and eyes.

Another benefit of using green products is the peace of mind that you're helping keep the planet a clean and safe place to live not only for your generation ,but for generation, to come. Going an eco-friendly community is getting easier. There are more and more community gardens, swap meets and farmer's markets that make it easier for an entire community to actively participate in ecofriendly activities.

    A. On the basis of your reading of the passage, answer the following questions in brief:

a) What are eco-friendly products?

b) What are the benefits of using eco-friendly products?

c) Why eco-friendly products are considered as eco-friendly?

d) How can the society be made eco-friendly?

    B. Find the words from passage which means the same as:

      a) Prevailing fashion   b) Imperishability

C. Find the words from passage which means the opposite as:

a) Artificial   b) Soothe

Q2: Read the following poem and answer the following questions:12M

Home they brought the warrior dead,

She nor swooned, nor uttered a cry ;

All the people watching said,

"She must weep or she will die."

Then they praised him soft and low,

Called him worthy to be loved,

Truest friend and noblest foe ;

Yet she neither spoke nor moved.

Stole a maiden from the place,

Lightly to the warrior stepped

Took the face cloth from the face

Yet she neither moved nor wept.

Rose a nurse of ninety years,

Set her child upon her knee –

Like summer tempest came her tears Sweet

My child 'I live for thee'.

A) On the basis of reading the poem answers the following questions: 2*4=8M

  i. Who was brought home?   iii.What was the reaction of the wife?

  ii. How did they try to make her cry?   iv.Give a suitable title to the poem.

B) Find the words from the poem which rhyme with the following: 2M

      i.Dead   ii. years

C) Find words from the poem which mean the same as the following:2M

      i.Fainted   ii.storm

Section- B (Writing & Grammar)

Q3. The rapid increase in number of vehicles in traffic congestion on the roads, to add to this many public transporters violate the traffic rules. The result is chaos/confusion on the roads. Write an article expressing your opinion on the state of traffic, failure to control / check and suggest measures to improve the situation .   8M

Q4.Complete the given story with the help of the opening sentences: 12M

The lady was glad to be back at the block of flats where she lived……

Q5. A. Edit the given passage: 4M

a. India had been a strange _____ _____

b. Country to foreigners . In it glorious _____ _____

c. Past , it were considered a country with _____ _____

d. The lot of wealth . _____ _____

Q6. Complete the given passage.   3M

Sonu (a) _____ his entrance exam and (b) ____ admission in IIT. He (c) __ a brilliant student and believed in hard work.

Q7. Rearrange the given words and phrases to form meaningful sentences: 3M

i. Several/therefore/similarities/ weather patterns / in the /there are

ii. Is/ actually / a combination / light/ of / colours / many

iii. Can be / these / by / seen / light / splitting / the / a prism / with

<center>Section- C (Literature and long reading text)</center>

8. Read the following extracts and answer the questions.   4M

The amount of homework she did was amazing .She would read, repeat write and recite.

1. Who is she in the above lines?

2. What homework is being talked about here?

3. Why was she so keen on doing the homework?

4. What does this extract reveal about the character of she?

<center>Or</center>

Last scene of all,

That ends this strange eventful history

Is second childishness and mere oblivion

 Sans teeth, sans eyes, sans every thing

1. Which is the last stage of all?

2. Why this stage is called a second childishness?

3. What is meant by eventful history?

4. What is the meaning of oblivion?

Q9. Answer the following questions in 30-40 words.   4X2=8

 1. How did Jeanne react to Gaston's decision to purchase the villa?

2. Why was private quelch labeled as a professor?

3. How does the poet feel about his choice in the poem 'the road not taken?

4. How did Harold react when he came to know about his father's reaction?

Q10.What message does the play 'The Bishops Candlesticks' give?   8M

Q11. How do the 3 friends feel about the rainy weather in the beginning and how did their attitude change later on their journey back home from Oxford? (THREE MEN IN A BOAT)   10M

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Atomic Energy Central School No.4 Rawatbhata

Confidence Test   2017-2018

Time Allowed: 3 hours   Class –I X , MATHEMATICS   MM: 80

Name of the Student_____ Roll No._____Class____

General Instructions:

1. All questions are compulsory.

2. The question paper consists of 30 questions divided into four sections A, B, C and D. Section-A comprises of 6

   questions of 1 mark each; Section-B comprises of 6 questions of 2 marks each; Section-C comprises of 10

   questions of 3 marks each and Section-D comprises of 8 questions of 4 marks each.

3. There is no overall choice in this question paper.
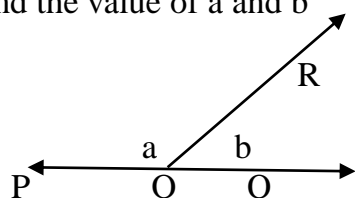
4. Use of calculator is not permitted.

SECTION-A

Question numbers 1 to 6 carry one mark each

1.Express $0.3\overline{2}$ in the form of $\frac{p}{q}$ 1

2.Find the value of polynomial $2x^2 + 7x – 4$ at x = -1   1

3.Find the mean of first 5 multiples of 3.   1

4.The base radii of two right circular cones of the same height are in the ratio of 3:5. Find   1
the ratio of their volumes.

5.In a single throw of a dice, What is the probability of getting a prime number?   1

6.If the Volume of a cube is 216cm^3,then find its edge.   1

SECTION-B

Question numbers 5 to 12 carry two marks each.
7.Find the value of K, if x – 2 is a factor of $x^3 – 2Kx^2 + Kx – 1$.   2

8. Two sides of a triangle are 8cm and 11cm and its perimeter is 32cm.Find the area of the triangle.   9. In the following figure <POR and <QOR form a linear pair and a – b = 80^0,then find the value of a and b

10. PQ and RS are two parallel chords of a circle on the same side of centre and radius is 10cm.If PQ = 16cm and RS = 12cm,then find the distance between the chords.

11. If the volume of a right circular cone of height 9cm is $48\pi cm^2$,find the diameter of its base.

12. If probability of having rain on a certain day is $\frac{2}{5}$. , then find the probability of not having rain on that day

SECTION C.

Question numbers 13 to 22 carry three marks each

13. Plot the following points and write the name of the figure thus obtained P(-1,0), Q(2,0), R(2,3), S(-1,5).Also find the area of the figure obtained.

14. Find the value of K, If x = 2, y = 1 is a solution of the equation $2x + 3y = K$. Express y in terms of x and find the value of y when x = -1 .

15. Represent $\sqrt{9.3}$ on the number line.

16. Factorize: $125x^3 - 343y^3$

17. If a point C lies between two points A and B such that AC = BC, prove that AC = $\frac{1}{2}$ AB

18. Prove that sum of three interior angles of a triangle is 180^0

19. A field is in the shape of a trapezium whose parallel sides are 25cm and 10cm.If its non-parallel sides are 14cm and 13cm,Find its area.

20. The angles of a Quadrilateral are in the ratio 1:2:3:4. Find all four angles of quadrilateral.

21. Show that a median of a triangle divides it into two triangles of equal areas.

22. The CSA of a right circular cylinder is $2288cm^2$ and the circumference of the base is 88cm. Find the height and TSA of the cylinder.
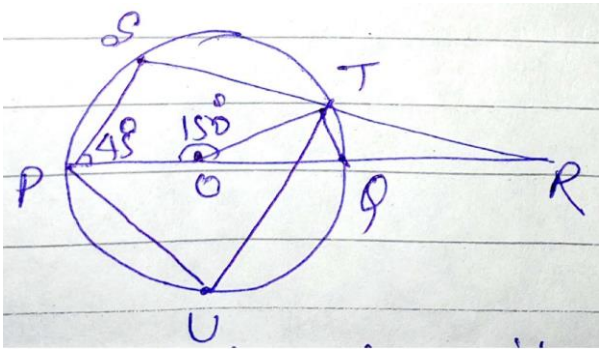
SECTION-D

Question numbers 23 to 30 carry four marks each

23. Prove that angle subtended by an arc at the centre of the circle is double the angle subtended in the remaining part of the circle.

24. Construct a triangle ABC in which BC = 8cm,<B = 45^0 and AB –AC = 3.5cm. Write steps of construction.

25. The marks obtained (out of 100) by a class of 89 students are given below:

Marks	10-20	20-30	30-50	50-70	70-100
No. of students	6	17	20	16	30

Convert it into adjusted frequency and construct a Histogram to represent the data above.

26. In the given figure ∟SPF = 45^0,<POT = 150^0 and O is the centre of circle. Find the measure of <RQT, <RTQ and <PUT.

27. Prove that the line segment joining the mid- point of two sides is parallel to the third side and half of it.

28. In a ΔABC, E is the mid – point of median AD and F is the mid-point of ED. Show that ar(ΔBFD) = $\frac{1}{8}$ ar(ΔABC)

29. If $a + b + c = 15$ and $a^2 + b^2 + c^2 = 83$, then find the value of $a^3 + b^3 + c^3 - 3abc$.

30. The inner dimensions of a closed wooden box are 8cm by 6cm by 5cm. Thickness of the wood is 1cm. Find the total cost of the wood required to make the box, if 5cm^3 of wood costs Rs 50.

Atomic Energy Central School No.04, Rawatbhata

Confidence Test (2017-18)

Time: 3 Hours   Class- IX, Science   Max. Marks:80

SECTION-A (Chemistry)

Q.1. (a) what makes gases highly compressible? (3)

(b) What type of clothes we should wear in Summer & Why?

Q.2. Which technique you will use to separate the following-

(i) pigment from petals of a flower

(ii) by- products of petroleum

(iii) mixture of sugar and salt (3)

Q.3. (a) The Valency of an element –'X' is 3. Work out the formula of its Oxide. (3)

(b) Which has more number of atoms.100grams of sodium or 100 grams of iron? (given atomic mass of Na=23u,Fe=56u)

Q.4. (a) Air is considered as a mixture of gases whereas water is considered as a compound .Give three reasons to justify.

(b) What are Colloids? Do they show tyndall effect? Explain. (5)

Q.5. (a) Draw Schematic atomic structure of an element having atomic number-11. (5)

(b) Explain the drawback of Rutherford's model.

(c) What are isotopes? State any 2 applications of them.

(BIOLOGY)

Q.1. Why is the cell called structural & functional unit of life? (1)

Q.2. What are Lichens? (1)

Q.3. Air normally contain some dust and other Suspended particles. What function they perform?(2)

Q.4. What are Chromosomes? What are the components of which they are made up? When these are visible inside a cell? (3)

Q.5. Draw labelled diagram of striated muscle. State one Similarity which they Share with cardiac muscle. (3)

Q.6. (a) What are phanerogams?

(b) Mention any two features of chordates. (3)

Q.7. What do you mean by Nitrogen fixation? Also mention the various ways by which it occurs? (Any 2) (3)

Q.8. What is AIDS? Name the virus which cause AIDS? Also mention the modes of transmission of AIDS. (5)

OR

(i)   Explain the specific way of preventing an infectious disease.

(ii)   Write two differences between Chronic and acute diseases.

Q.9. (i) Why Italian bee is preferred over local varieties of bee? (5)

(ii) Name two marine fishes of high economic value.

PHYSICS

Q.1 State universal law of Gravitation. And write the value for 'G' with its SI unit. (2)

Q.2. What do you mean by buoyancy? State the two factors on which buoyancy depends. (2)

Q.3. (a) Define uniform acceleration. What is the acceleration of a body moving with constant velocity? (3)

(b) A body moves over three quarters of a circle of radius 'r'. Calculate the distance travelled and displacement.

Q.4. Define Law of conservation of Energy. Prove it for a freely falling object from a height 'h' to the ground. (3)

Q.5. Ravi is a poor labourer. for last few days he used to feel pain, in his lower abdomen as well as in his back. When he went to a doctor. the doctor prescribed some tests as well as ultra-sonography of lower abodomen. When
Rita who lived nearby came to know of this, She decided to give financial help to Ravi, after tests and ultrasound it was found that there was a stone in the left kidney of Ravi. Rita asked her neighbours to contribute for the operation. All neighbors contributed for the operation as well as subsequent medical expenses. Now Ravi is absolutely fit.

(a)What is ultrasound ?

(b)Explain its working principle.

(c)What values are shown by Rita and her neighbors? (3)

Q.6 (i) If a man jumps out from a boat, the boat moves backwards. Why?

(ii) Explain our walking in terms of Newton's third law of motion.

(iii)A bullet of mass 10 g travelling horizontally with a velocity of 150 m/s strikes a stationary wooden block and comes to rest in 0.03 S.Calculate the distance of penetration of the bullet into the block. (5)

Q.7 Define frequency and wave length with reference to sound. Explain echo and reverberation . Write full form of SONAR. Give anyone application of ultrasound. (5)

SECTION B

Q.1. What happens when dil. H_2SO_4 is added to a mixture of iron filings & Sulphur powder? (2)

Q.2. Why do we use glycerine for preparing temporary mount of onion peel? (2)

Q.3. How do you differentiate the Chloroplast of Spirogyra with that of any other alga? (2)

Q.4.What changes do you observe when copper sulphate is heated? (2)

Q.5 A free falling object eventually stops on reaching the ground. What happens to its kinetic energy. (2)

Q.6 If a sharp horizontal flick with a finger is given to a coin on a card covering an empty glass tumbler, where the coin will fall? Name this property involved in this activity. (2)

Atomic Energy Central School No.4 Rawatbhata

Confidence Test(2017-18)

Time : 3 Hours   Class- IX, Social Science   M.M.: 80

Name of the Student_____ Roll No._____Class____

General Instructions :-

(1) The Questions Paper has 28 questions in all. All questions are compulsory.

(2) Questions from serial numbers 1 to 7 are very Short Answer Questions. Each question carries 1 mark.

(3) Questions from serial number 8 to 18 are 3 marks questions.Answer of these questions should not exceed 80 words each.

(4) Questions from serial number 19 to 25 are 5 marks questions . Answer of these questions should not exceed 120 words each.

(5) Questions number 26 , 27, & 28 are map questions of 2 marks from History and 3 marks from Geography. After completion, attach the maps inside your answer book.

1- Name the main three estates of the French society.   (1)
2- When Germany surrendered to the Allies?   (1)
3- Name the Shallow Sea or geosynclines in which Himalayan Mountain is formed.
                                                                            (1)
4- Which of the rocks are found in the Peninsular Plateau?   (1)
5- Name the country where women do not have the right to vote.   (1)
6- How many years Nelson Mandela spent in the jail?   (1)
7- Name the two states of India where Green Revolution became successful.
                                                                            (1)
8- What was the role of political clubs in the French society ?   (3)
9- What was the common problem of industrial workers?   (3)
10-Describe about Nomads Pastoralist in the Mountains region.   (3)
11-Define bhanger and Khadar alluvium soil.   (3)
12-What is the important role of rivers in the Indian economy?   (3)
13-Why the wind ward side of the Western Ghats Receives heavy rainfall?(3)
14-What are the main features of democracy ?   (3)
15-What was the important role of Nelson Mandela in South Africa against Apartheid system?
    (3)
16-Why do we need elections ?   (3)
17-What are the problems of the functioning of ration shops ?   (3)
18-Discuss the major reasons for poverty in India.   (3)
19-How did the various changes of Maasai,s community after baning on their mobility?
                                                                            (5)
                                OR
    How did the forest Act and changes affect the lives Pastoralists?
20-Discuss the different views and ideas of Karl Marx regarding Society?(5)
                                OR

Which of the incident was Known as Bloody Sunday?

21-What are the advantages of having a healthy Population?   (5)

22-Distinguish between Tropical Evergreen and Deciduous forests.(5)

23- Discuss the functions and power of the President of India.   (5)

OR

Define the political and permanent Executive.

24-Why do we need a constitution ? Discuss some important features of Indian constitution.
(5)

25 -What are the various activities undertaken in the primary sector , secondary sector and tertiary sector?   (5)

OR

Modern farming methods require more inputs which are manufactured in industry.Do you agree?

26- Locate and label the following items on given out line map of France

       (i) Nantes   (ii)   Paris   1/2 +1/2 = 1

27-Locate and label the following on the given out line map of the world.

½ + ½ = 1

       (A)   Germany   (B) England

28 – Locate and label the following on the given out line map of India. 1x3= 3

     (i)Chennai   (ii)Tropic of cancer   (iii)The Aravali hill

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Atomic Energy Central School No.4 Rawatbhata

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