ENGLISH

Q1. Rehana wanted to write a short story. However, she could not go beyond a few lines. Taking help from the information given below, develop Rehana's story to a logical conclusion. You can invent your own details.

I was 9.00 am. I was standing at the bus-stand waiting for number 743 bus that could drop quite near my office. Suddenly a young-man came from behind, put his hand around my near and disappeared in the crowd………….

Q2. Rohit wants to write a short story but cannot go beyond a couple of lines. Taking him from the information given below and inventing your own details, details develop Rohit's slip ot its logical conclusion. Give a suitable title to the story you develop.

Q3. (i) Enormous and intelligent/elephants/strong and sociable/the/creatures

(ii) For centuries/have been/simply because/impressed/so big/humans/by them/they are

(iii) Amaze us/long and flexible/they also/noses/large and flapping/and/loose, wrinkly skin/with/their/ears

Q4. (i) Our health/our environment/on the earth/for existence/is very necessary

(ii) Our healty/our environment/on the earth/for/existence/is very necessary

(iii) We create/the good habits/a healthy environment /the circumstances /depends on /and

(iii) Natural calamities/natural world/a protection/it acts/and provides /as a/to us for us/from the

Q5. Yesterday I (a) ……….....(receive) a phone call that my father (b)………(be) unwell. I (c) ………(book) a ticket online and (d) ……….(leave) for Amritsar. On the way, I (e) …………(meet) a young man who (f) …………(offer) me some biscuits.

Q6. What (a) …………….(be) meditation? Meditation (b) …………(mean) when the mind (c) ………..(be) without any agitation. I (d) …………(cool) the mind, the mind (e) …………(become) thoughtless. There (f) …………(be) different methods of mediation.

HINDI

रचनात्मक गतिविधि : 1

1 निम्नलिखित वाक्यों में उचित स्थानों पर विराम चिह्नों का प्रयोग करें।

रचनात्मक गतिविधि : 2

2 भारत के मानचित्र में दिखाएँ कि धान की फसल प्रमुख रूप से किन–किन प्रांतों में उपजाई जाती है ?

प्र0: 3 लेखक ने कीचड़ की महानता को कैसे सिद्ध किया है ?

प्र0:4 पाठ ' धर्म की आड़' पढ़ें तथा विस्तारपूर्ण ढंग से बताएँ कि इस पाठ का उद्देश्य क्या है ?

प्र0: 5 विराम चिह्न तथा संधि का विस्तारपूर्ण अध्ययन करके अभ्यास करो ।

MATHS

1. If $a = \dfrac{3-\sqrt{5}}{3+\sqrt{5}}$ $b = \dfrac{3+\sqrt{5}}{3-\sqrt{5}}$, find $a^2 - b^2$.

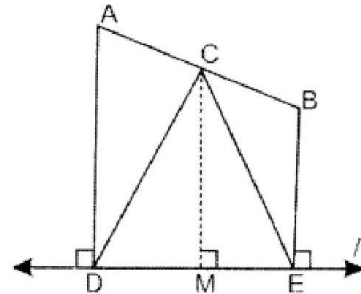2. Simplify $(x + y + z)^2 - (x - y + z)^2$.

3. The polynomials $x^3 + 2x^2 - 5bx - 8$ and $x^3 + bx^2 - 12x - 11$ when divided by $(x-2)$ and $(x-3)$ leaves remainder p and q respectively. If $-p + q = 10$, find the value of b.

4. A computer typist charges ` 10 for the first page and ` 5 per page for the remaining pages. If the total pages to be typed are x and the total cost to type these pages is ` y write a linear equation   for this information and draw its graph.

5. 'A' has x apples and 'B' has y apples . If 'A' gives his 10 apples to 'B' then the number of apples left with 'A' will be twice of apples 'B' having then. Write this information in the form of linear equations in two variables and draw its graph.

6. AD is a median of triangle ABC. Prove that AB + AC > 2 AD.

7. AD and BE are the medians of a triangle ABC and DF ∥ BE. Show that CF = $\frac{1}{4}$AC.

8. XY is a line parallel to side BC of a triangle ABC .If BE parallel AC and CF parallel AB meet XY at E and F respectively ,show that ar. (ABE)=ar. (ACF).

9. ABCDE is a pentagon .A line through B parallel to AC meet DC produced at F show that
   ar. (ACB)=ar. (ACF) (ii)   ar. (AEDF)=ar. (ABCDE)

10.
   Points A and B are on the same side of a line l.
   AD and BE are perpendiculars to l, meeting l
   at D and E respectively. C is the mid-point of
   AB (see fig.). Prove that CD = CE.

11. Find the area of a triangle whose , two sides are 8 cm , 11 cm and its perimeter is 32 cm .

12. The radius and height of a right circular cone are in the ratio 5 : 12 and its volume is 2512 m^3.
    Find the slant height and radius of cone.

13. AB and CD are two parallel chords of a circle which are on opposite sides of the centre such that AB = 10cm , CD = 24 CM and distance between AB and CD is 17 cm. Find the radius of the circle.

14. It costs 2200 rupees to paint the inner curved surface area of a cylindrical vessel 10m deep. If the cost of painting is at the rate of rupees 20per sq. m, find
    (i)   Inner curved surface area of the vessel,
    (ii)   Radius of the base, (iii) capacity of the vessel.

15. The sides of a quadrilateral , taken in order are 5, 13 , 14 and 15 meters respectively, and   the angle contained by the first two sides is aright angle. Find its area.

16. ABCD is a parallelogram. A circle through A , B, C intersects CD produced at E.Prove that AE = AD

17. Construct a ΔXYZ with its perimeter 11 cm and the base angles 105^0 and 60^0.

18. If $x = \dfrac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$ and $y = \dfrac{\sqrt{3}-\sqrt{2}}{\sqrt{3}+\sqrt{2}}$, find x^2 + y^2 -5xy.

19. Construct a ΔPQR in which QR = 5 cm , ∠Q = 45^0 and PQ + QR = 9.6cm.

20. A metallic sphere of radius 10.5 cm is melted and thus recast into small cones , each of radius 3.5cm and height 3cm. Find how many cones are obtained.

SCIENCE

1. Write the equation and name the products formed on reaction between Na2SO4 & BaCl2 solutions.

2. What are physical changes?Explain with the help of examples.

3. What are chemical changes?Explain with the help of examples.

4. Burning of candle is a physical change or chemical change?Give reason.

5. A)You are given a mixture of NH_4Cl and NaCl salts. Name the process that can be used to separate them.
   B)Draw the diagram for above process.

6. What is chlorination?Why is it important?

7. Convert into Kelvin scale   a)$55^{\circ}C$ b)$65^{\circ}C$ c) $-99^{\circ}C$
8. What is work? Explain with the help of 2 examples.
9. Draw and define work done by a constant force.
10. Derive an expression for kinetic energy.
11. Derive an expression for potential energy.
12. Name and define different forms of energy.
13. Explain rate of doing work with the help of examples.
14. What is the significance of health?
15. Write 5 diseases and their causes.
16. What precautions we can take to prevent diseases.
17. Define chronic diseases and what are its ill effects?
18. Differentiate between communicable and non-communicable diseases.
19. What is immune system?What kind of food is helpful to improve our immune system?
20. What are the different means by which infectious diseases are spread?

SSC

HISTORY

Q. On the Map of World locate and label the followings.

1. Place where Nazism existed

2. Russian Empire

3. Any two countries of Central Powers who participated in World War I

4. Any two countries which won World War I

5. Territories under German expansion (Nazi Power)

i) Austria ii) Poland iii) Denmark iv) Lithuania v) France vi) Belgium

6. On the Map of France mark

i) Port of Bordeaux ii) A city associated with National Anthem of France iii) Nantes

Civics

Q1:-Why do we need elections?

Q2:-What makes elections democratic?

Q3:-Is it good to have political competition.Explain?

Q4:-What are reserved constituencies?Explain the concept of 'Reservation of seats' .

Q5:-How and by whom eth voter list prepared?

Q6:-What is difference between General Elections and By- Elections.

Q7:-What is the importance of election campaign?

Q8:-Explain the election procedure.

GEOGRAPHY

1. Why are days and nights almost of equal duration at Kanyakumari?
2. If you want to visit Lakshadweep during your inter holiday, which water body do you have to cross?
3. Assume that you have recently travelled in the Indian desert. Describe the desert to a person not living in India.
4. Which river system carries about 70% of the total discharge of Indian rivers?
5. Most of the perennial rivers are in the Northern part of India. Explain.
6. Why is India known as a country having all the major geographical features of the world? Explain.
7. What routes of trade replaced the 'Silk route' in modern times? Why?

ECONOMICS

1. Explain why modern farming methods increase production cost, at the same time harming the physical environment?
2. Which conditions compel landless labourers to work many jobs in a year?
3. 'For every farm activity there is a need of the factors of production'. How far do you agree or disagree with this statement? Comment.
4. Why are women employed in low paid work?
5. People are the greatest resource that a country has. Explain.
6. Suggest any five ways so that people could become an asset for the economy of India.
7. In which category will you classify the activity of 'bribe- taking'?