



SKIE Classes Parraypora & Rajbagh

Bismillah Colony, Parraypora -Srinagar, 190005

MOST EXPECTED QUESTIONS FOR THE YEAR 2023-2024

(MATHEMATICS)

➤ NUMBER SYSTEM

1. Express each number as a product of its prime factors:

- (i) 140 (ii) 156 (iii) 3825

2. Given that $HCF(306, 657) = 9$, find $LCM(306, 657)$.

3. Prove that root 5 is irrational.

4. Find the LCM and HCF of the following pairs of integers and verify that $LCM \times HCF = \text{product of 2 No's}$

- (i) 26 and 91 (ii) 510 and 92

➤ POLYNOMIALS

5. Find the zeroes of the following quadratic polynomials and verify the relationship between the zeroes and the coefficients.

- (i) $x^2 - 2x - 8$ (ii) $4s^2 - 4s + 1$

6. Find a quadratic polynomial each with the given numbers as the sum and product of its zeroes respectively.

- (i) 1, $1/4$ (ii) $1/2, 3$ (iii) 0, 5 (iv) 1, 1

➤ PAIR OF LINEAR EQUATIONS

7. On comparing the ratios a_1/a_2 , b_1/b_2 & c_1/c_2 , find out whether the following pair of linear equations are consistent, or inconsistent.

- (i) $3x + 2y = 5$; $2x - 3y = 7$ (ii) $2x - 3y = 8$; $4x - 6y = 9$

8. Draw the graphs of the equations $x - y + 1 = 0$ and $3x + 2y - 12 = 0$.

Determine the coordinates of the vertices of the triangle formed by these lines and the x-axis, and shade the triangular region.

9. Solve the following pair of linear equations by the substitution method.

10. (i) $x + y = 14$ ii) $s + t = 3$
 $x - y = 4$ $s/3 + t/2 = 6$

11. Form the pair of linear equations for the following problems and find their solutions by substitution method.

(i) The difference between two numbers is 26 and one number is three times the other. Find them.

(ii) The larger of two supplementary angles exceeds the smaller by 18

degrees. Find them.

(iii) The coach of a cricket team buys 7 bats and 6 balls for ₹ 3800. Later, she buys 3 bats and 5 balls for ₹ 1750. Find the cost of each bat and each ball.

12. Solve the following pair of linear equations by the elimination method and the substitution method :

i) $x + y = 5$ and $2x - 3y = 4$

ii) $3x - 5y - 4 = 0$ and $9x = 2y + 7$

➤ Quadratic equations

13. Check whether the following are quadratic equations:

(i) $(x + 1)^2 = 2(x - 3)$

(ii) $x^2 - 2x = (-2)(3 - x)$

(iii) $(x - 2)(x + 1) = (x - 1)(x + 3)$

14. Find the roots of the following quadratic equations by factorisation:

(i) $x^2 - 3x - 10 = 0$

(ii) $2x^2 + x - 6 = 0$

15. Find two consecutive positive integers, sum of whose squares is 365

16. Find the nature of the roots of the following quadratic equations. If the real roots exist, find them:

i) $2x^2 - 3x + 5 = 0$

ii) $2x^2 - 6x + 3 = 0$

17. Is the following situation possible? If so, determine their present ages. The sum of the ages of two friends is 20 years. Four years ago, the product of their ages in years was 48.

➤ ARITHMETIC PROGRESSION

18. Write first four terms of the AP, when the first term a and the common difference d are given as follows:

(i) $a = 10, d = 10$ (ii) $a = -2, d = 0$

19. Which of the following are APs? If they form an AP, find the common difference d and write three more terms.

(i) 2, 4, 8, 16, ... (ii) 1, 3, 9, 27, ...

20. Which term of the AP : 3, 8, 13, 18, ... is 78?

21. An AP consists of 50 terms of which 3rd term is 12 and the last term is 106. Find the 29th term.

22. Which term of the AP : 3, 15, 27, 39, ... will be 132 more than its 54th term?

23. How many multiples of 4 lie between 10 and 250?

24. Find the 20th term from the last term of the AP : 3, 8, 13, ..., 253.

25. Find the sum of the following APs:

(i) 2, 7, 12, ..., to 10 terms.

(ii) -37, -33, -29, ..., to 12 terms.

26. Find the sums given below

i) $34 + 32 + 30 + \dots + 10$

ii) $-5 + (-8) + (-11) + \dots + (-230)$

27. In an AP:

(i) given $a = 5$, $d = 3$, $a_n = 50$, find n and S_n

(ii) given $a = 7$, $a_{13} = 35$, find d and S_{13} .

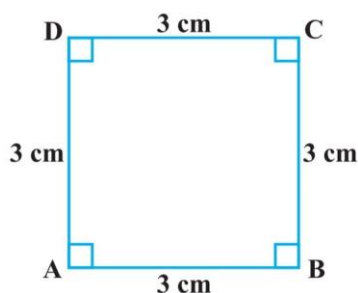
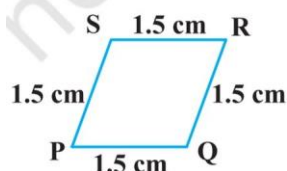
(iii) given $a_{12} = 37$, $d = 3$, find a and S_{12} .

28. Find the sum of first 22 terms of an AP in which $d = 7$ and 22nd term is 149.

29. Find the sum of the first 40 positive integers divisible by 6.

30. Find the sum of the first 15 multiples of 8.

➤ TRIANGLES



31. State whether the following quadrilaterals are similar or not:

32. If a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, the other two sides are divided in the same ratio.

33. ABCD is a trapezium in which $AB \parallel DC$ and its diagonals intersect each other at the point O. Show that $AO/CO = BO/DO$.

34. The diagonals of a quadrilateral ABCD intersect each other at the point O such that $AO/CO = BO/DO$. Show that ABCD is a trapezium.

35. In Fig. 6.17, (i) and (ii), $DE \parallel BC$. Find EC in (i) and AD in (ii).

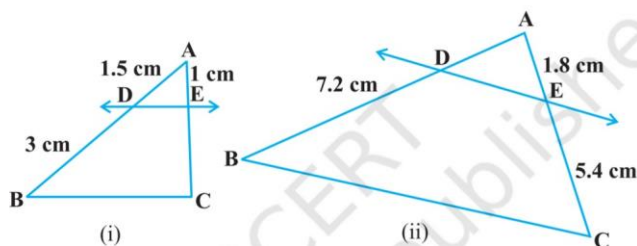


Fig. 6.17

➤ COORDINATE GEOMETRY

36. Determine if the points $(1, 5)$, $(2, 3)$ and $(-2, -11)$ are collinear.

37. Name the type of quadrilateral formed, if any, by the following points, and give reasons for your answer:

(i) $(-1, -2)$, $(1, 0)$, $(-1, 2)$, $(-3, 0)$

(ii) $(-3, 5)$, $(3, 1)$, $(0, 3)$, $(-1, -4)$

- 38.** Find the values of y for which the distance between the points $P(2, -3)$ and $Q(10, y)$ is 10 units.
- 39.** Find the ratio in which the y -axis divides the line segment joining the points $(5, -6)$ and $(-1, -4)$. Also find the point of intersection.
- 40.** Find the coordinates of the point which divides the join of $(-1, 7)$ and $(4, -3)$ in the ratio $2 : 3$.
- 41.** Find the ratio in which the line segment joining $A(1, -5)$ and $B(-4, 5)$ is divided by the x -axis. Also find the coordinates of the point of division. Find the ratio in which the line segment joining $A(1, -5)$ and $B(-4, 5)$ is divided by the x -axis. Also find the coordinates of the point of division.
- 42.** Find the coordinates of a point A , where AB is the diameter of a circle whose centre is $(2, -3)$ and B is $(1, 4)$

➤ INTRODUCTION TO TRIGONOMETRY

- 43.** If $\sin A = \frac{3}{4}$ calculate $\cos A$ and $\tan A$.
- 44.** In triangle ABC , right-angled at B , if $\tan A = \frac{1}{3}$, find the value of:
i) $\sin A \cos C + \cos A \sin C$
- 45.** In PQR , right-angled at Q , $PR + QR = 25$ cm and $PQ = 5$ cm. Determine the values of $\sin P$, $\cos P$ and $\tan P$.
- 46.** If $\tan(A + B) = 3$ and $\tan(A - B) = \frac{1}{\sqrt{3}}$; $0^\circ < A + B < 90^\circ$; $A > B$, find A and B .
- 47.** Write all the other trigonometric ratios of A in terms of $\sec A$.
- 48.** Prove the following identities, where the angles involved are acute angles for which the expressions are defined.

$$(i) (\operatorname{cosec} \theta - \cot \theta)^2 = \frac{1 - \cos \theta}{1 + \cos \theta} \quad (ii) \frac{\cos A}{1 + \sin A} + \frac{1 + \sin A}{\cos A} = 2 \sec A$$

$$(iii) \frac{\tan \theta}{1 - \cot \theta} + \frac{\cot \theta}{1 - \tan \theta} = 1 + \sec \theta \operatorname{cosec} \theta$$

[Hint : Write the expression in terms of $\sin \theta$ and $\cos \theta$]

$$(iv) \frac{1 + \sec A}{\sec A} = \frac{\sin^2 A}{1 - \cos A} \quad [\text{Hint : Simplify LHS and RHS separately}]$$

$$(v) \frac{\cos A - \sin A + 1}{\cos A + \sin A - 1} = \operatorname{cosec} A + \cot A, \text{ using the identity } \operatorname{cosec}^2 A = 1 + \cot^2$$

$$(vi) \sqrt{\frac{1 + \sin A}{1 - \sin A}} = \sec A + \tan A \quad (vii) \frac{\sin \theta - 2 \sin^3 \theta}{2 \cos^3 \theta - \cos \theta} = \tan \theta$$

➤ SOME APPLICATIONS OF TRIG

- 49.** The angle of elevation of the top of a tower from a point on the ground, which is 30 m away from the foot of the tower, is 30° . Find the height of the tower.

50. From a point on the ground, the angles of elevation of the bottom and the top of a transmission tower fixed at the top of a 20 m high building are 45° and 60° respectively. Find the height of the tower.

51. As observed from the top of a 75 m high lighthouse from the sea-level, the angles of depression of two ships are 30° and 45° . If one ship is exactly behind the other on the same side of the lighthouse, find the distance between the two ships.

➤ CIRCLES

52. Fill in the blanks:

- (i) A tangent to a circle intersects it in point (s).
- (ii) A line intersecting a circle in two points is called a
- (iii) A circle can have parallel tangents at the most.
- (iv) The common point of a tangent to a circle and the circle is called

53. Prove that the tangents drawn at the ends of a diameter of a circle are parallel.

54. Prove that the parallelogram circumscribing a circle is a rhombus.

➤ AREAS RELATED TO CIRCLES

55. Find the area of a sector of a circle with radius 6 cm if angle of the sector is 60° .

56. The length of the minute hand of a clock is 14 cm. Find the area swept by the minute hand in 5 minutes.

57. A brooch is made with silver wire in the form of a circle with diameter 35 mm. The wire is also used in making 5 diameters which divide the circle into 10 equal sectors. Find

- (i) the total length of the silver wire required.
- (ii) the area of each sector of the brooch.

➤ SURFACE AREAS AND VOLUMES

58. A toy is in the form of a cone of radius 3.5 cm mounted on a hemisphere of same radius. The total height of the toy is 15.5 cm. Find the total surface area of the toy.

59. A hemispherical depression is cut out from one face of a cubical wooden block such that the diameter l of the hemisphere is equal to the edge of the cube. Determine the surface area of the remaining solid.

60. A vessel is in the form of an inverted cone. Its height is 8 cm and the radius of its top, which is open, is 5 cm. It is filled with water up to the brim. When lead

shots, each of which is a sphere of radius 0.5 cm are dropped into the vessel, one-fourth of the water flows out. Find the number of lead shots dropped in the vessel.

61. A spherical glass vessel has a cylindrical neck 8 cm long, 2 cm in diameter; the diameter of the spherical part is 8.5 cm. By measuring the amount of water it holds, a child finds its volume to be 345 cm^3 . Check whether she is correct, taking the above as the inside measurements, and $\pi = 3.14$

➤ STATISTICS

62. Thirty women were examined in a hospital by a doctor and the number of heartbeats per minute were recorded and summarized as follows. Find the mean heartbeats per minute for these women, choosing a suitable method.

Number of heartbeats per minute	65 - 68	68 - 71	71 - 74	74 - 77	77 - 80	80 - 83	83 - 86
Number of women	2	4	3	8	7	4	2

63. The following distribution gives the state-wise teacher-student ratio in higher secondary schools of India. Find the mode and mean of this data. Interpret the two measures

Number of students per teacher	Number of states / U.T.
15 - 20	3
20 - 25	8
25 - 30	9
30 - 35	10
35 - 40	3
40 - 45	0
45 - 50	0
50 - 55	2

64. The following frequency distribution gives the monthly consumption of electricity of 68 consumers of a locality. Find the median, mean and mode of the data and compare them

Monthly consumption (in units)	Number of consumers
65 - 85	4
85 - 105	5
105 - 125	13
125 - 145	20
145 - 165	14
165 - 185	8
185 - 205	4

➤ PROBABILITY

65. Suppose we throw a die once.

(i) What is the probability of getting a number greater than 4 ?

(ii) What is the probability of getting a number less than or equal to 4 ?

66. A bag contains lemon flavoured candies only. Malini takes out one candy without looking into the bag. What is the probability that she takes out

(i) an orange flavoured candy?

(ii) a lemon flavoured candy?

67. A box contains 5 red marbles, 8 white marbles and 4 green marbles. One marble is taken out of the box at random. What is the probability that the marble taken out will be

(i) red ? (ii) white ? (iii) not green

68. One card is drawn from a well-shuffled deck of 52 cards. Find the probability of getting

(i) a king of red colour (ii) a face card (iii) a red face card

(iv) the jack of hearts (v) a spade (vi) the queen of diamonds.

69. 2 defective pens are accidentally mixed with 132 good ones. It is not possible to just look at a pen and tell whether or not it is defective. One pen is taken out at random from this lot. Determine the probability that the pen taken out is a good one.

70. A game consists of tossing a one rupee coin 3 times and noting its outcome each time. Hanif wins if all the tosses give the same result i.e., three heads or three tails, and loses otherwise. Calculate the probability that Hanif will lose the game.

(SCIENCE)

BIOLOGY

LIFE PROCESS

Q NO 1:-What are the difference between autotrophic nutrition & heterotrophic nutrition?

Q NO 2:- What is the role of the acid in our stomach?

Q NO 3:- Describe the process of digestion in human beings? Draw a labeled diagram of human digestive system?

Q NO 4:- How are the small intestines designed to absorb digested food?

Q NO 5:- How is the oxygen & carbon dioxide transported in human beings?

Q NO 6:-How are water & minerals transported in plants?

Q NO 7:- What is the role of Saliva in the digestion of food?

Q NO 8:- What are the difference between aerobic respiration & anaerobic respiration?

Q NO 9:- Describe double circulation in human beings. Why is it necessary?

Q NO 10:- Explain the structure of Nephron?

CONTROL & CO-ORDINATION

Q NO 1:-What happens at the synapse between two neurons?

Q NO 2:- What are plant Harmones? Define tropism and its various types?

Q NO 3:- How do auxins Promote the Growth of a tendril around a support?

Q NO 4:- Why is the use of Iodised salt advisable?

Q NO 5:- How does Chemical co-ordination takes place in animals?

Q NO 6:- How does our body respond when Adrenaline is secreted into the blood?

Q NO 7:- Why are some patients of diabetes treated by giving injections of Insulin?

Q NO 8:- Draw the structure of Neuron?

Q NO 9:- How are involuntary actions & reflex action different from each other?

HOW DO ORGANISMS REPRODUCE

Q NO 1:- what is Asexual reproduction? What are its various types, explain them?

Q NO 2:- Draw labeled diagram of male reproductive system & Female reproductive system?

Q NO 3:-How is the process of Pollination different from fertilization?

Q NO 4:-What are the advantages of sexual reproduction over Asexual reproduction?

Q NO 5:-What are the functions performed by the Testis in human beings?

Q NO 6:-Why does Menstruation Occurs?

Q NO 7:-Draw a labeled diagram of the Longitudinal section of Flower?

GENETICS & HEREDITY

Q NO 1:-How do Mendel's experiments show that traits may be dominant or recessive?

Q NO 2:-How do Mendel's experiment show that traits are Inherited Independently (Law of independent assortment)?

Q NO 3:-How is the sex of the Child determined in human beings?

OUR ENVIRONMENT

Q NO 1:-Why are some substances Bio-degradable and some are non-biodegradable?

Q NO 2:-What are trophic levels? Give an example of Food chain & state the different trophic levels in it?

Q NO 3:-What is the role of Decomposers in the ecosystem?

Q NO 4:-What is Ozone & how does it effect any ecosystem?

Q NO 5:-What is Biological Magnification? Will the level of this magnification be different at different levels of the ecosystem

Q NO 6:-What will happen if we kill all the organisms in one trophic level?

Q NO 7:-What is Ecosystem& What are its components?

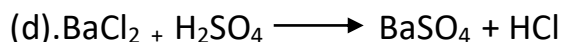
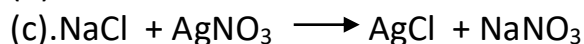
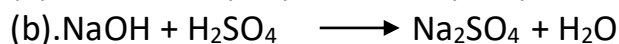
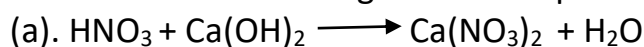
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CHEMISTRY

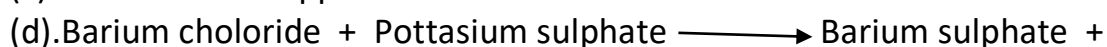
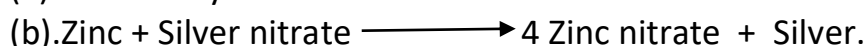
CHEMICAL REACTIONS & EQUATIONS

Q NO 1:-What is balanced chemical equation? Why should chemical equation be balanced?

Q NO 2:-Balance the following chemical equation?



Q NO 3:-Write the balanced chemical equations for the following reactions?



Potassium chloride.

Q NO 4:-What are the various types of chemical reactions? Define them with one example each?

Q NO 5:-Explain the following in terms of gain or loss of Oxygen with two examples each.

(a). Oxidation

(b). Reduction.

Q NO 6:-Oil & Fat containing food items are flushed with nitrogen. Why?

Q NO 7:-Explain the following terms with one example each.

(a). Corrosion.

(b). Rancidity.

CARBON & ITS COMPOUNDS

Q NO 1:-What are the two properties of carbon which lead to the huge number of

carbon compounds we see around us?

Q NO 2:-What will be the formula & electron Dot structure of Cyclopentane?

Q NO 3:-Draw the structure of Diamond & Graphite?

Q NO 4:-What are Saturated & Unsaturated Carbon compounds?

Q NO 5:-Write down the properties of Ethanol & ethanoic acid?

Q NO 6:-How would you distinguish between an alcohol & carboxylic acid?

Q NO 7:-What is an Homologous series? Explain with an example?

Q NO 8:-What is hydrogenation? What is its industrial application?

Q NO 9:-Explain the mechanism of cleaning action of soap?

Q NO 10:-How can ethanol & Ethanoic acid be differentiated on the basis of their physical & chemical properties?

METALS & NON-METALS

Q NO 1:-Explain the meanings of Malleable & ductile?

Q NO 2:-Why is sodium kept immersed in kerosene oil?

Q NO 3:-Define the following terms? (a).Mineral (b).Ore (c).Gangue.

Q NO 4:-What are Amphoteric Oxides? Give two examples of Amphoteric Oxides?

Q NO 5:-What are the different ways to prevent the rusting of Iron?

Q NO 6:-Differentiate between Metals & Non-Metals on the basis of their Physical properties & Chemical Properties?

ACIDS, BASES & SALTS

Q NO 1:-Why does an Aqueous solution of acid conduct electricity?

Q NO 2:-Write an equation to show the reaction between Plaster of Paris & Water?

Q NO 3:-What is P.O.P? Write its chemical formula?

Q NO 4:-Why does distilled water not conduct electricity, whereas rain water does?

Q NO 5:-Plaster of Paris should be stored in a moisture proof container. Explain why?

Q NO 6:-What is a neutralisation reaction? Give two examples?

Q NO 7:- Write a short note on Washing soda & baking soda & Give their Important uses?

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PHYSICS

LIGHT

Q NO 1:- Define centre of curvature, pole, radius of curvature, Principal axis, aperture, of spherical mirrors ?

Q NO 2 :- Explain Principal Focus and focal length of concave and convex mirror with the help of suitable diagram?

Q NO 3 :- Image formation in concave mirror and convex lens when object is placed at different positions?

Q NO 4 :- USES of concave and convex mirrors

Q NO5:- Sign conventions of spherical mirrors and lens

QNO.6 :- Why do we prefer convex mirror as a rear view mirror in vehicles ? (IN TEXT)

Qno.7 :-A concave mirror produces three times magnified real image of an object placed at 10cm in front of it . Where is the image located ? (IN TEXT)

QNO.8 :- Explain refraction and its laws ? What are the conditions of no refraction?

QNO.9 :- Refraction through a rectangular glass slab?

QNO.10 define Power of lens ? what is its S.I unit and define that ?

QNO.11 The refractive index of diamond is 2.42 . What is the meaning of this statement ? (in Text)

QNO.12 EXAMPLE 1.1 AND EXAMPLE 1.2 EXAMPLE 1.4 page no. 10 , 21 (very very important)

QNO.13 Exercise QNO. 10 QNO. 11 QNO.13 page no. 25

HUMAN EYE

QNO.1 Explain the construction and working of human eye?

QNO.2 What is meant by power of accommodation of the eye? (in text)

QNO.3 Explain Myopia Hypermetropia, Presbyopia? How are these defects corrected . Illustrate with the help of diagram?

Qno.4 Why do stars Twinkling and planets doesnot ?

QNO.5 Why sun looks red at sunrise and sunset? Why sun can be seen two minutes before actual sunrise and two minutes after actual sunset?

QNO.6 Why sky appear dark instead of blue to astronauts ?

QNO.7 Why red signal is used as traffic signal ? why not other colour

Q no.8:- Explain dispersion of light. How Rainbow is formed.

ELECTRICITY

QNO.1 what is electric charge ? define its S.I unit ?

Qno.2_what is potential difference ?

Qno.3 define 1 volt

QNO.4 Explain OHMS LAW and give its experimental verification. What are the physical conditions necessary for truthfulness of Ohms law.

QNO.5 calculate no. of electrons in 1 coulomb of charge?

QNO.6 Advantages of parallel circuits over series circuits

QNO.7 calculate resultant resistance when resistances are connected in parallel and series?

QNO.8 What is resistance ? what are the factors on which resistance depends explain each one in brief ?

QNO.9 An electric motor takes 5A from a 220v line. Determine the power of the motor and the energy consumed in 2h ?
(IN TEXT)

QNO.10 compute the heat generated while transferring 96000 coulomb of charge in one hour through a potential difference of 50v?

Example 3.12 page no . 57 (very important)

MAGNETIC EFFECT OF CURRENT

QNO.1 :- Properties of magnetic field lines

QNO.2 :- OERSTED'S EXPERIMENT.RULES TO FIND DIRCTION OF MAGNETIC FIELD.

QNO.3 :- Magnetic field due to a current carrying solenoid.

Qno.4:- Force experienced by a current carrying conductor placed in the magnetic field – kicking wire experiment

QNO.5:- Motor- Principle,

QNO.6:- Flemmings left hand rule.

QNO.7:- live wire, neutral wire and earth wire.

QNO.8:-Why does a compass needle get deflected when placed near the bar magnet. (IN TEXT)

QNO.9:- Why two magnetic field lines does not intersect. (IN TEXT)

QNO.10:- What is the function of earth wire (IN TEXT)

QNO.11:- Name two safety measures commonly used in electric circuit.

➤ **HISTORY AND POLITICAL SCIENCE**

RISE OF NATIONALISM IN EUROPE

1. What steps did French revolutionaries take to create a sense of collective identity among French people?
2. Trace the process of German unification.
3. Impact of Indian revolutionary movement on jammu and Kashmir?
4. Why did nationalist tension emerge in Balkans?
5. How was history of nationalism in Britain unlike rest of Europe?

NATIONALISM IN INDIA

1. Discuss Salt March to make clear why it was an effective symbol of resistance against colonialism
2. Write newspaper report on Simon commission
3. Why Indians were outraged by Rowlett act?
4. How First World War helped in the growth of National movement in India.

MAKING OF GLOBAL WORLD

1. Write a note to explain the effects of following
 - a) Great depression on Indian economy.
 - b) Coming of rinderpest to Africa.
 - c) Decision of MNC's to relocate production to asian countries.
2. What is meant by Bretton woods agreement?
3. What is referred as G77 and in what ways G77 can be seen as reaction to activities of Bretton woods twins.
4. Explain three types of flows with in international economic exchange

OR

AGE OF INDUSTRIALIZATION

[Note: Students only have to prepare one among these two chapters i.e., Either Making of Global World Or Age Of Industrialization. In question paper you will be having a choice between the two.]

1. Explain what is meant Proto-Industrialization
2. Why did Industrial production in India increase during 1st World War.
3. Explain why port of surat was declined by the end of 18th century.
4. How did E.I.C procure regular supplies of cotton and silk textiles from Indian weavers?

PRINT CULTURE AND MODERN WORLD

- From this chapter you will get a passage so it is mandatory to thoroughly read the chapter.

MODERNISATION OF EARSTWHILE J&K

- Only MCQ's will be asked so go through the chapter.

POWER SHARING

1. What are the different forms of power-sharing in modern democracies?
Give an example of each of these.
2. State one prudential reason and one moral reason for power sharing with an example from Indian context.

FEDERALISM

1. Difference between federal form of Govt and Unitary one?
2. What are key features of federalism?
3. State any two differences b/w local govt before and after the constitutional Amendment in 1992.

GENDER RELIGION AND CASTE

1. State how Caste Inequalities are still continuing in India.
2. What is the status of Women's representation in India's legislative bodies?
3. Mention any two constitutional provisions that make India a Sector State.

POLITICAL PARTIES

1. What are the characteristics of a Political Party?
2. What are the various challenges faced by political party and suggest reforms
3. What are the functions of Political Party?

OUTCOMES OF DEMOCRACY

- Only MCQ's

THE J&K Re-Org ACT 2019

- Only MCQ's will be asked

GEOGRAPHY AND ECONOMICS

RESOURCES AND DEVELOPMENT

1. How have technical & economic development led to the consumption of more resources?
2. What steps can be taken to control soil in hilly areas?
3. Name some states having black soil & the crop which is mainly grown in it.
4. What type of soil is found in the river deltas of the eastern coast?
Give some features of this soil.

AGRICULTURE

1. Describe the geographical conditions required for the growth of rice.
2. Suggest the initiatives taken by the government to ensure the increase the agri production.
3. Name one beverage crop and specify the geographical conditions

for its growth.

4. The land under cultivation has got reduced day by day. Can you imagine its consequences?

MINERALS AND ENERGY RESOURCES

1. Why do you think that solar energy has a bright future in India.
2. Describe the distribution of coal in India.
3. Why do we need to conserve mineral resources?
4. Conventional and non conventional sources of energy.

MANUFACTURING INDUSTRIES

1. How do industries pollute the environment?
2. What is manufacturing?
3. Name any three physical factors for the location of the industry.
4. Discuss the steps taken to minimize environmental degradation by industry.

LIFELINES OF NATIONAL ECONOMY

1. Why are the means of transportation and communication called the lifelines of a nation and its economy?
2. Write a note on the changing nature of the international trade in the last 15 years.
3. What is meant by trade. Difference b/w Local and & International trade.
4. State any 3 merits of roadways.
5. What is the significance of border roads?

UNDERSTANDING J&K ECONOMY

1. What are the main hurdles in the economic development of j&k.
2. Write down the main principles of PPP.
3. Write a brief note on Micro small medium scale Industries in employment generation.
4. How employment potential in J&K can be increased.
5. What is the role of handicraft sector in employment generation in J&K.

URDU

نوٹ اصناف نثر و نظم
ناول۔ غزل۔ ڈرامہ۔ قصیدہ۔ افسانہ۔ خاکہ۔
مرثیہ۔ داستان
نوٹ ادباء و شعرا
میرامن۔ ڈپٹی نذیر۔ پریم چند۔ نورشاہ۔
اقبال۔ میر تقی میر۔ غالب۔ آتش۔ فانی
نظم۔ معروضی سوالات
مفلسی۔ جگنو۔ رامائن۔ نعت نوکریوں پر
سخت گیری۔
تذکیر و تانیث
دنیا رومال گھاس کھیت۔ دوا خط۔
کرایہ۔ بات۔ سورج۔ استاد۔ کتاب۔ گاڑی
چاند۔ دہی بلبل۔ دوکان عمارت شہر قلم
ٹوپی
واحد جمع
اشخاص ورق حکام ثمر جرائم افکار سبب
علماء ضلع تصاویر بلند اساتذہ کتاب گاڑی
حروف کی تعریف
حرف ندا حرف استفہام حرف جار حرف
عطف حرف شرط حرف اضافت۔ حرف
تاسف حرف استدراک
محاورات
افت کا پر کالا۔ آگ بگولا ہونا۔ افاقہ ہونا۔
قافیہ تنگ کرنا۔ چھاتی پیٹنا۔ ایک نہ سننا۔
آلو سیدھا کرنا آج کل کرنا۔ نذر کرنا باغ
باغ ہونا
ترکیب نحوی

انسان پانی کا بلبہ ہے۔ اکبر بیمار ہے۔ مچھلی
پانی میں تیر رہی ہے۔ امجد گھر میں حاضر
تھا۔ پرندہ ہوا میں اڑ رہا ہے۔ زمین گول
ہے۔ اکبر نے اسلم کو مارا۔ بشیر کتاب پڑھ
رہا تھا۔ امجد کا بھائی ذہین ہے۔ بشیر سبق
پڑھ رہا تھا۔

خلاصہ

عبرت اور مزاح دار لٹ گئی۔ آسمان پھول
اور لہو۔ خوشامد
تشریح غزلیات

پہلی چھ غزلوں کی تشریح ضرور یاد کیجئے
نثری اسباق کے سوالات
ناول۔ داستان۔ افسانہ خاکہ انشائیہ
نظموں کے سوالات

مفلسی۔ قصیدہ۔ نعت۔ مرثیہ۔ نوکروں پر
سخت گیری۔

درخواست

فیس معاف۔ پوسٹ ماسٹر۔ ایکسکرسن۔

چھٹی

خط۔

بھائی کے نام کھیل کود کی اہمیت۔ دوست کے
نام گرمی چھٹی۔ موسم گرما کی چھٹیاں
مضمون

کھیلوں کی اہمیت۔ جنگلات کے فائدے۔ تعلیم
کی اہمیت۔ سائنس ایک رحمت۔ تندرستی
ہزار نعمت۔ خشک سالی کے مضر اثرات
پیارے طلباء و طالبات اللہ آپکو اچھے
نمبرات سے کامیاب کرے کیونکہ آپکی کامیابی
ہماری کامیابی ہے

ENGLISH

Section A: Reading Comprehension

15 Marks

1. Read the following passage and answer the questions that follow.

When you are old and grey and full of sleep,
And nodding by the fire, take down this book,
And slowly read, and dream of the soft look
Your eyes had once, and of their shadows deep;
How many loved your moments of glad grace,
And loved your beauty with love false or true,
But one man loved the pilgrim soul in you,
And loved the sorrows of your changing face.

i. This poem is written in the

- A. first person
- B. second person
- C. third person
- D. first person plural

ii. In line two the word 'book' refers to

- A. memories
- B. portrait
- C. an album
- D. a diary

iii. The poem is addressed to

- A. a young woman
- B. an old woman
- C. a young woman the poet loved
- D. the poet's wife

iv. The theme of the poem is

- A. sympathy
- B. empathy
- C. jealousy
- D. love

v. What does the poet mean by 'pilgrim soul'? (Answer in one or two sentences)

1 x 5 = 5 Marks

2. Read the following poetic passage and answer the questions that follow.

Increasing traffic congestion every year is causing increasing air pollution, wasting time and productivity and diverse respiratory diseases. Moreover, the cost of solving or reducing traffic congestion is enormous. However, neglecting the traffic jam problem would increase the social problems among citizens. The number of vehicles has increased considerably in the city in the past five years. Due to this increase, the city roads witness frequent traffic congestions, but above all, the vehicles emitting pollutants are affecting the environment adversely.



The Capital's vehicular population saw an addition of more than five lakh vehicles last year, registering an increase of over 4%, according to the Delhi Economic Survey 2020-21. In spite of the largest road network, through metro and bus services in major cities the transport system is not being able to keep pace with the growing demand. Consequently, more and more people use their private vehicles, leading to increased congestion on the roads. In spite of these challenges people in India prefer road travel over air and other means of travel. Citizens of Delhi/NCR have, time and again, pondered over the possibilities of how to reduce the traffic congestion in the city, especially during the peak hours. People should use public transport, the government must increase the facilities of public transport, people should avoid the unnecessary collection of vehicles and should use carpool and vehicle sharing.

What is required is proper implementation of corrective measures by citizens to get an organized traffic management system.

i. Infer one reason for the following, based on information in paragraph 1.
Reducing traffic congestion is not easy because . . .

ii. The kind of pollution pointed out in the passage refers to

- A. water
- B. noise
- C. air
- D. both (B) and (C)

iii. The vehicles emit pollutants which affect _____ badly.

iv. There are _____ consequences of increasing vehicular congestion.

- A. beneficial
- B. adverse
- C. implicit
- D. explicit

v. The synonym of ponder is

- A. consider
- B. communicate
- C. request
- D. take

1x 5= 5 Marks

3. Read the following advertisement and answer the questions that follow.

A complete health drink ideal for growing children, sportsmen, women and the aged

- **Growing children:** Booster provides additional protein for growth and health.
- **Women:** Booster helps to overcome weakness and fatigue by providing additional protein, calcium and iron.

BOOSTER

Contains high quality proteins, vitamins, minerals and other vital nutrients.

Ingredients:
Skimmed milk powder, Sugar, Maltodextrin, added flavours, Vitamins and Minerals.

BEST BEFORE 18 MONTHS FROM MANUFACTURE

Make your delicious drink



Take 1 tablespoon (10 g) of BOOSTER in a cup.



Add 1 teaspoon milk/water to it.



Add sugar to taste and stir.

Flavours:
Chocolate, Vanilla, Caramel

NET WEIGHT 250 G

- i. How much Booster powder is required for a cup of health drink.
A. 1 g
B. 10 g
C. 15 g
D. 250 g
- ii. Growing children need more _____ for growth.
A. vitamins
B. proteins
C. minerals
D. maltodextrin
- iii. Which flavour is NOT available in Booster?
A. chocolate
B. vanilla
C. strawberry
D. caramel
- iv. Women need extra calcium and iron to
A. improve vitality
B. improve stamina
C. maintain lean tissue mass
D. overcome fatigue
- v. Give two reasons why Booster is a complete drink?

1x5= 5 Marks

Section B: Grammar

10 Marks

- 4. Fill in the blanks by using correct forms of verbs given in the brackets.**

On a Sunday in the spring of 1981, Douglas Adams wrote a letter to Ken Welsh. In the letter he _____ (thank) Welsh for the book he _____ (send) him. He also wrote about how he came to _____ (write) his book about the universe.

3 Marks

- 5. Rewrite the following passage in indirect form**

'What if there were two moons?' said Javed. 'That's no wonder. Of course, the Earth has only one,' his friend Aman replied. 'What do you mean?' said Javed.

3 Marks

- 6. There are four errors indicated by numbers in the brackets in the following passage.**

Correct the errors and rewrite the corrected passage.

Curiosity is the largest and most capable rover ever sent to Mars on(1) NASA. It set out to answer the question: Did Mars ever have the right environmental conditions to support small life forms called microbes!(2) Early in its mission, Curiosity's (3) scientific tools found chemical and mineral evidence of past habitable environmentsin(4) Mars. It continues to explore the rock record from a time when Mars could have been home to microbial life.

4 Marks

Section C: Writing Skills

7. Seema appears in an interview for the job of a teacher. Following is the beginning of her interaction with the interviewer. Complete the dialogue in 100-120 words.

Seema: Good Morning.

Interviewer: Good Morning. Please have a seat.

Seema: Thank you, sir.

Interviewer: You are Seema Sharma, MA, BED from Kupwara?

Seema: Yes, sir.

Interviewer: Ok, Seema. Tell me why you applied for the job of a teacher?

Seema:

4 Marks

8. You are the Head Boy/Head Girl of Public Higher Secondary School, Sonwar. The Principal of your school handed you the following letter from Cancer Society of Kashmir and asked you to draft a notice to be put on the notice board so that students may contribute generously to the organization. Write down the notice in up to 50 words. Do not give any extra information. Put the words in a box.

The Cancer Society of Kashmir
407 – Tulsibagh
Srinagar
2nd March 2021

The Principal
Public Higher Secondary School
Sonwar

Dear Sir

The Cancer Society of Kashmir is a charitable organisation working for eradication of some diseases (cancer and haemophilia). The organization helps the people who are suffering from cancer, haemophilia and some other disorders. It even bears huge expenses for treatment of the diseases as mentioned. The society is meant especially for those who are extremely poor. It also provides, free medical advice and medicines. We would deem it a gesture of kindness and generosity if students contribute to the cause of rendering help to the people of Jammu and Kashmir who are suffering from these diseases. The students may even request their parents to contribute generously towards the noble cause. It is hoped that we are helped in this venture. Thank you very much.

Yours Sincerely
Dr. A.K. Sawhney

3 Marks

9. Read the following notes from the notepad of Shri Ram Nath, Principal of Secondary School, Ram Nagar about his observations on student attendance. He

asks his assistant to draft a message on his behalf for the class representatives and the Staff Secretary. Using the information from the notepad, draft the message in up to 50 words. Put the message in a box.

- Growing tendency - absenteeism
- Excuses for absence
- Creates indiscipline
- Call meeting - Staff Secretary, class reps to attend

2 Marks

10. Attempt one of the following.

- Write a letter to your parents about your experience of travelling alone by bus from your to your uncle's home who lives in another district.
- Write a letter to an editor about the cleaning a polluted stream that runs through your village and irrigates agricultural land.

5 Marks

11. Attempt one of the following.

You may organise your ideas coherently before you begin to write.

- Write a speech in 80-100 words on Artificial intelligence (AI). You can use the following expressions as cues.
 - computer-controlled robot
 - perform tasks
 - ability to reason
 - associated with human beings
 - machines learn from experiences
 - self-driven cars & robotic surgeries
 - e-payment
 - gene mapping
- Write a brief article in 80-100 words on the uses of the internet. Some hint words are given below.
 - network of computers
 - worldwide communication
 - global village
 - world pocket library
 - search engine & e-mail
 - You Tube & Whatsapp
 - online classes in Covid 19 & virtual classroom

5 marks

12. Following is the opening of a story. Think of an appropriate plot for the story and complete it in 200-250 words.

The blue ink dried on the yellow table top in his room looked like a pirate hat. Khalid wondered how it had happened. He had not been home for two weeks. He went to the bathroom and put some water on a towel. Back in his room, he tried to wipe the stain.

As he picked up the towel from the table, the stain turned red. This perplexed him and he called his mother. She too was wonderstruck and did not have a clue . . .

6 marks

Section D: Literature

30 Marks

13. Answer three of the following questions.

- i. Why does the writer say that Griffin had chosen a bad time to be in London without clothes?
- ii. Write down the instances of irony in the prose lesson "An Excellent Father".
- iii. Enumerate any two reasons that justify Mr. Keesing is irritated by Anne's talking in class.
- iv. What impression of Nelson Mandella do you get from 'A Long Walk to Freedom'?
- v. How did Buddha make KisaGotami understand that death is common to all?

3x3 = 9 Marks

14. Answer three of the following questions.

- i. In 'Snowdrop' the poet uses the word globe to indicate something different from its literal meaning. What is it?
- ii. What poetic device is used in 'As a late winter's moon'? What does Kamala Das use it to express?
- iii. Explain 'don't abandon me my Lord!'
- iv. What does the word destination refer to in the following lines?
There is activity in the houses lit with electric bulbs
Moonlight laughs holding the hem of the moon.
Where is my destination? Where is the hurry?
- v. What according to you is the funniest part of 'The Tale of Custard the Dragon'? Explain your answer.

3x3 = 9 Marks

15. Answer one of the following questions.

- i. The necklace changes the course of the Loisels' life. Comment.
- ii. Ramlal was worried about Bholi as she did not have good looks. Counter the belief that it's important for a girl to be good looking and give a reason for the same.
- iii. Rama Rao chose shortcut method to succeed but failed miserably. How?

1x6 = 6 Marks

16. Answer one of the following questions.

- i. Natalya and Lomov struggle to communicate their true feelings to one another, which causes the whole trouble in the play. Discuss.
- ii. Write about the instances of irony in 'The Proposal'.

1x6 = 6 Marks

GRAMMAR:

Modals, Articles, Relative clauses, Tenses, Narration, Punctuation

WRITING SKILLS:

- **Create/Write dialogues on the given situation with the help of hints.**
- **One question to be attempted on notice writing with the help of hints. (50 words)**
- **One question to be attempted on message writing with the help of hints. (50 words)**
- **One letter to be attempted out of the given two.(formal/informal).**
- **One speech/ article/ paragraph to be attempted on a given topic out of two. The hint words will be given. (80-100 words)**
- **A creative story to be developed out of the given hints and also to suggest a suitable title**