

➤➤➤➤ For Achieving Highest Result in S.S.C. Board

PAPER SET 2021



• Science & Tech. • Maths • English • Social Science

The School Of Science (SOS)

| Our Goal |

The courses of Gujarat Board (CBSE Board) in 11th and 12th Science are completed by highly qualified and experienced teachers giving the equal priority and separately preparation GUJ-CET Exams which are given innovatively so that the students can perform the best in NEET-UG and JEE-MAIN exams at national level and build their bright career in medical and engineering.

| The Organizers |

If you check the records of years in any institute, you will find that,
"TEACHERS ARE CHANGING IN EACH SCHOOL" BUT...

**"The Only School In Gujarat Where...
... The Teachers Are The Organizers Of The Institute."**

Prof. Paneliya (Physics)
M.Sc.

Dr. Ketan Bhalodiya (Biology)
M.Sc., B.Ed., M.Phil., Ph.D., C.C.I.T.R.

Mr. Punit Vyas (Physics)
M.Sc., B.Ed.

Dr. Vishal Narodiya (Chemistry)
M.Sc., B.Ed., Ph.D.

Mr. Dharmesh Patel (English)
M.A.

Mr. Shatrughan Sinhar (Chemistry)
B.E. Chemical - Nirma

Mr. Garala (Maths)
M.Sc., B.Ed.

Mr. Vipul Paneliya

Only preparation at school Without Any Coaching

**NO
DUMMY
STUDENTS**

Out of 133 students preparing - NEET...



Dhaneja Pujan

Marks

674

Obtaining **600** Marks or more **03** Students

Obtaining **550** Marks or more **09** Students

Obtaining **500** Marks or more **18** Students

Obtaining **475** Marks or more **25** Students

Obtaining **450** Marks or more **31** Students

Obtaining **400** Marks or more **48** Students

GUJ-CET

2020

JEE-MAIN

Seventh in the Board

Valrani Priyanshu

Marks

111.50

out of 120

PR 99.93

The students Getting **99** PR or More **14**

The students Getting **95** PR or More **58**

The students Getting **98** PR or More **26**

The students Getting **90** PR or More **105**



Hirapara Niyati

PR

99.49

The students Getting **90** PR or More **19**

The students Getting **85** PR or More **27**

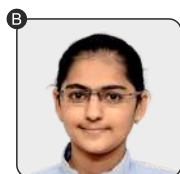
The students Getting **80** PR or More **39**

60 Students
QUALIFIED For
JEE - ADVANCED



Sci. Grade A2

Barad Dhara
PR **99.97**



Sci. Grade A2

Shiyar Komal
PR **99.96**



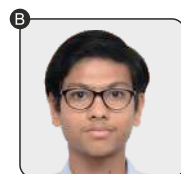
Sci. Grade A2

Gajera Aayush
PR **99.96**



Sci. Grade A2

Sanjava Savan
PR **99.94**



Sci. Grade A2

Dhaneja Pujan
PR **99.90**



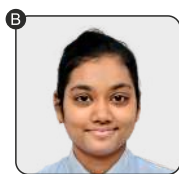
Sci. Grade A2

Dhanja Jaimin
PR **99.90**



Sci. Grade A2

Herbha Devang
PR **99.87**



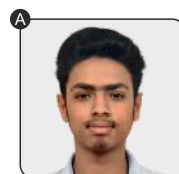
Sci. Grade A2

Rathod Roshni
PR **99.84**



Sci. Grade A1

Pankhaniya Prashant
PR **99.84**



Sci. Grade A1

Kunjera Shreyansh
PR **99.83**



Sci. Grade A1

Vadher Manali
PR **99.80**



Sci. Grade A1

Bhalodi Dhruv
PR **99.80**



Sci. Grade A2

Nandaniya Soham
PR **99.78**



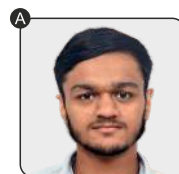
Sci. Grade A2

Karud Rajak
PR **99.74**



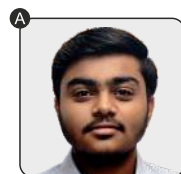
Sci. Grade A2

Raiyani Khushi
PR **99.72**



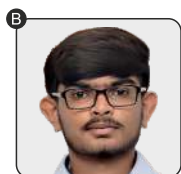
Sci. Grade A2

Bodar Rajdeep
PR **99.71**



Sci. Grade A1

Gajera Jeel
PR **99.71**



Sci. Grade A2

Rank Akhil
PR **99.69**



Sci. Grade A2

Vadoriya Harshvi
PR **99.67**



Sci. Grade A1

Sanepara Khushi
PR **99.63**



Sci. Grade A2

Hirpara Niyati
PR **99.62**



Sci. Grade A2

Kachhadiya Yash
PR **99.53**



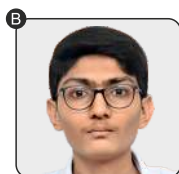
Sci. Grade A2

Makwana Nisha
PR **99.44**



Sci. Grade A2

Pipaliya Jeel
PR **99.42**



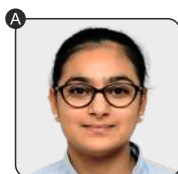
Sci. Grade A2

Ginoya Bhavya
PR **99.42**



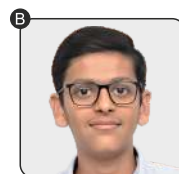
Sci. Grade A2

Faldu Dishant
PR **99.40**



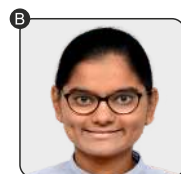
Sci. Grade A2

Bhadresha Priyanshi
PR **99.37**



Sci. Grade A2

Dobariya Vrutik
PR **99.36**



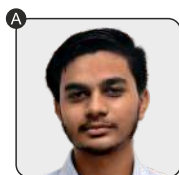
Sci. Grade A2

Vansjaliya Neha
PR **99.36**



Sci. Grade A2

Tarpada Krupali
PR **99.31**



Sci. Grade A2

Shiroya Dishant
PR **99.30**



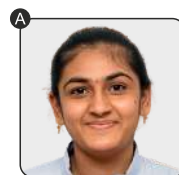
Sci. Grade A2

Bandhiya Prakash
PR **99.21**



Sci. Grade A2

Valrani Priyanshu
PR **99.14**



Sci. Grade A2

Dholakiya Kinnari
PR **99.09**



Sci. Grade A2

Vasra Hiral
PR **99.09**

**Third
in the Board**

Barad Dhara

1



Group B

PR 99.97

Sci. Grade A1

Over All Grade A2

**Fourth
in the Board**

Shiyar Komal

2



Group B

PR 99.96

Sci. Grade A1

Over All Grade A2

**Fourth
in the Board**

Gajera Aayush

2



Group A

PR 99.96

Sci. Grade A1

Over All Grade A2

**Sixth
in the Board**

Sanjava Savan

3



Group B

PR 99.94

Sci. Grade A1

Over All Grade A2

**Tenth
in the Board**

Dhanaja Pujan

4



Group B

PR 99.90

Sci. Grade A1

Over All Grade A2

**Tenth
in the Board**

Dhanja Jaimin

4



Group A

PR 99.90

Sci. Grade A1

Over All Grade A2

Subjective Board TOP 10 79 Students The students Getting Science Grade A1 **12****Board | STD.12 | 2020****RESULT AT A GLANCE**The students Getting **99** PR or More **35**The students Getting **80** PR or More **257**The students Getting **98** PR or More **57****Result of Board 71.34%**The students Getting **95** PR or More **107****Result of Rajkot 84.69%**The students Getting **90** PR or More **173****Result of SOS 92.57%**

1

Group A

Seventh
in the Board

Valrani Priyanshu

Marks

111.50
out of 120

PR 99.93

2

Group B

Sixth
in the Board

Karud Rajak

Marks

110.00
out of 120

PR 99.94

Group B



Dhaneja Pujan

Marks

107.50
out of 120

PR 99.85

Group A



Hirpara Niyati

Marks

103.50
out of 120

PR 99.49

Group A



Makwana Nisha

Marks

103.25
out of 120

PR 99.48

Group A



Vadher Manali

Marks

103.00
out of 120

PR 99.45

Group B



Sanjva Savan

Marks

101.25
out of 120

PR 99.44

Group A



Sanepara Khushi

Marks

100.25
out of 120

PR 99.19

Group B



Sisara Dipak

Marks

100.00
out of 120

PR 99.33

Group A



Gajera Ayush

Marks

100.00
out of 120

PR 99.16

SUBJECT TOPPERS

MATHS

Valrani Priyanshu
40 / 40

BIOLOGY

Vadodariya Harshvi
39 / 40

CHEMISTRY

Karud Rajak
37.50 / 40Sanepara Khushi
37.50 / 40

PHYSICS

Valrani Priyanshu
36.50 / 40Dhanja Jaimin
36.50 / 40Bhalodi Dhruv
36.50 / 40

RESULT AT A GLANCE

The students Getting **99** PR or more **014** StudentsThe students Getting **98** PR or more **026** StudentsThe students Getting **95** PR or more **058** StudentsThe students Getting **90** PR or more **105** StudentsThe students Getting **85** PR or more **153** StudentsThe students Getting **80** PR or more **182** Students

Note : In the GUJ-CET 2020 result presented by the board, PR is given differently to the students of Group-A and Group-B.

SECTION - A

[24]

* **Answer the following questions. (Each carry 1 marks)**

* **Choose the correct option from multiple option for question. (Each carry 1 marks)**

- 1) Which of the following is chemical process ?
(A) Rust of iron (B) Cutting a tree (C) Running bike (D) Tearing the paper
- 2) What is the valency of carbon ?
(A) 4 (B) 3 (C) 2 (D) 1
- 3) Which chemical is responsible for adsorption of CO_2 ?
(A) KOH (B) HCl (C) H_2SO_4 (D) HNO_3
- 4) Which fuel is most suitable for environmental ?
(A) Petrol (B) Diesel (C) Kerosene (D) CNG
- 5) Which lens is used for focusing a single point image of sun in paper, thus burning it ?
(A) Glass slab (B) Convex Lens (C) Concave lens (D) Convex Mirror
- 6) Which device converts white light into seven colors ?
(A) Plane Mirror (B) Simple Glass (C) Glass Prism (D) Wooden Box

* **Filling in the blanks. (Each carry 1 marks)**

- 7) $\text{CH}_2=\text{CH}_2$ is _____ hydrocarbon.
- 8) The modern periodic table is periodic according to _____.
- 9) _____ controls the opening-closing of stomata.
- 10) If male gametes are attached to carpel of same flower, then it is _____ pollination.
- 11) As refractive index, the optical density _____.
- 12) To obtain nuclear energy, _____ process is carried out.

* **State True or False. (Each carry 1 marks)**

- 13) According to Newland, there are 56 elements in Nature.
- 14) The wings in beetle is a type of Analogous organ.
- 15) The speed of light is more in kerosene as compared to vacuum.
- 16) Solar cooker works on principle a "Solar energy is converted to light energy."

* **Answer in one word or one sentence. (Each carry 1 marks)**

- 17) What would happen if there would be no cranium around brain ?
- 18) The forelimbs of birds & human beings are example of which organs ?
- 19) State Acquired & Inherited traits.
- 20) Give SI unit of electric current.
- 21) Which is the best source of energy coal or CNG ?
- 22) Give full form of CFC.
- 23) Which 'R' is used when you say No to plastics ?
- 24) Which hormone control the amount of sugar in body ?

SECTION - B

* **Answer in short. (Any 9) (Each carry 2 marks)**

[18]

- 25) What happens if egg cell is not fertilize in woman ?
- 26) Balance the reaction : $\text{NaOH} + \text{Zn} \rightarrow$
- 27) Give four physical properties of metal.
- 28) Give two limitation of dobereiners triads.
- 29) Which things were kept in mind while making Mendeleev Periodic Table.
- 30) Explain Sex determination in Human Beings.
- 31) Give two advantages of using parallel connection of resistors.
- 32) State potential difference & give its SI unit.
- 33) Give characteristics of magnetic field lines ?
- 34) How ozone layer get depleted ?
- 35) Give 5 R's to save environment ? Explain any one.
- 36) Give two examples of stakeholders of forest.

SECTION - C

* **Answer in brief. (Any 6) (Each carry 3 marks)**

[18]

- 37) Explain combination reaction with example.
- 38) Explain extraction of metal of top reactivity with appropriate example.
- 39) What are alloys ? Give two name of Alloys & State their constituent metals.
- 40) Explain Human Brain (No diagram Required)
- 41) Why sexual reproduction is necessary ?
- 42) "Regeneration & reproduction are not same." Explain.
- 43) What is atmospheric refraction state its laws.
- 44) What is power of lens ? Give its unit & state the formula which compares power of lens & focal length.
- 45) Explain series connection of resistance.

SECTION - D

* **Answer in detail. (Any 5) (Each carry 4 marks)**

[20]

- 46) With diagram explain the reaction of sodium carbonate with Hydrochloric Acid.
- 47) State the importance of pH is following :
(i) pH in digestion (ii) pH is decay of teeth
- 48) Explain cleansing effect due to soaps & detergents.
- 49) Explain structure & function of human intestine.
- 50) Explain the human respiratory system.
- 51) With diagram explain dispersion of white light by glass prism.
- 52) Explain magnetic field due to current passed through solenoid with diagram.
- 53) With diagram explain domestic electric circuits.

SECTION - A

* **Answer the following questions. (Each carry 1 marks)** [24]

* **Choose the correct option from multiple option for question. (Each carry 1 marks)**

- 1) $Fe_2O_3 + 2Al \rightarrow Al_2O_3 + 2Fe$ is example of _____ reaction.
(A) Displacement Reaction (B) Combination Reaction
(C) Decomposition Reaction (D) Double Displacement Reaction
- 2) Which functional group is present in detergents ?
(A) $-CONa$ (B) $-COONa$ (C) $-SO_3Na$ (D) $-CO_3Na$
- 3) In the respiration process, glucose is converted into _____ in the first process.
(A) Lactic Acid (B) CO_2 (C) Starch (D) Pyruvate
- 4) Which of the following energy is obtain without turbine ?
(A) Tidal Energy (B) Geothermal Energy (C) Wave Energy (D) Solar Energy
- 5) The diameter of reflecting surface is called _____.
(A) Pole (B) Focus (C) Aperture (D) Centre of Curvature
- 6) Which phenomenon is responsible for twinkling of stars ?
(A) Atmospheric Refraction (B) Dispersion
(C) Reflection (D) Scattering

* **Fill in the blanks. (Each carry 1 marks)**

- 7) Cyclo Hexane is type of _____ hydrocarbon.
- 8) The electron configuration of element is 2,8,6 belongs to _____ period of periodic table.
- 9) _____ is responsible for red colour of blood.
- 10) Testis secretes _____ hormone.
- 11) The power of _____ lens is -4.0 D.
- 12) _____ energy is used for driving a bicycle.

* **State True or False. (Each carry 1 marks)**

- 13) The element having K, L & M shell belongs to 3rd period of periodic table.
- 14) Gene are responsible for protein synthesis in DNA.
- 15) When a ray of light from denser to rarer medium, speed of light decreases ?
- 16) Concave mirror is beneficial for solar cooker.

* **Answer in one word or one sentence. (Each carry 1 marks)**

- 17) What is the function of penis ?
- 18) Development of which organs suggest that they are not inherited from same forefather ?
- 19) Which thing provided evidence to bioscience of inheritance ?
- 20) Which is the best conductor among metals ?
- 21) Which types of energy are obtained from ocean ?
- 22) Where is ozone located ?
- 23) Which 'R' represents turning off light when not in use.
- 24) Which hormone in plants inhibits growth ?

SECTION - B

- * **Answer in short. (Any 9) (Each carry 2 marks)** [18]
- 25) Which are acidic oxides & basic oxides ? Give their example.
 - 26) State : (i) Mineral & (ii) Ore
 - 27) Explain Newland's law of octave.
 - 28) What is the relation between electron configuration with modern periodic table ?
 - 29) What kind of changes are observed in male during puberty ?
 - 30) Explain how analogous organs gave evidence for evolution ?
 - 31) Why tungsten is used in filaments of electric bulb ?
 - 32) Why series connection is not used in domestic electric circuits ?
 - 33) Explain Fleming's left hand rule.
 - 34) How ozone layer is formed ?
 - 35) How the level of CO₂ can be controlled in environment ?
 - 36) Why resource should be managed ?

SECTION - C

- * **Answer in brief. (Any 6) (Each carry 3 marks)** [18]
- 37) What is decomposition reaction ? Explain by giving reaction.
 - 38) Give physical properties of nonmetal.
 - 39) Explain extraction of metal of low reactivity.
 - 40) Write a note on plant hormones.
 - 41) Explain sexual reproduction in flowers.
 - 42) Explain female reproductive system with diagram.
 - 43) What is reflection of light ? Give its laws.
 - 44) Give the characteristic of image formed by plane mirror.
 - 45) State Ohm's law & derive its equation.

SECTION - D

- * **Answer in detail. (Any 5) (Each carry 4 marks)** [20]
- 46) Explain the importance in (i) Self defense by animal (ii) Survival of Aquatic Animals
 - 47) Give two properties of carbon which contribute to form many hydrocarbons.
 - 48) Explain Human Excretory System.
 - 49) What are life processes ? Explain different life process in brief.
 - 50) Explain the formation of Rainbow.
 - 51) Write a short note on electric fuse.
 - 52) How strength of Acid or base been measured ?
 - 53) Write in brief physical properties of acids & base.

SECTION - A

- * **Answer the following questions. (Each carry 1 marks)** [24]
- * **Choose the correct option from multiple option for question. (Each carry 1 marks)**
- 1) Which gas is produced when lead nitrate is heated ?
(A) N_2 (B) CO_2 (C) NO_2 (D) HCl
 - 2) What is the molecular formula of benzene ?
(A) C_6H_{12} (B) C_6H_{14} (C) C_6H_6 (D) C_6H_{10}
 - 3) Which component of the food is digested partially in the stomach ?
(A) Starch (B) Lipid (C) Protein (D) Carbohydrate
 - 4) Which metal is used to make solar cell ?
(A) Zinc (B) Nickel (C) Silicon (D) Uranium
 - 5) The focal length of a convex lens is 25 cm, then what is its power ?
(A) +2.5 D (B) + 5.0 D (C) + 4.0 D (D) +10.0 D
 - 6) The light of which colour has maximum velocity in the dispersion of white light by a glass prism ?
(A) Red (B) Violet (C) Blue (D) Green
- * **Filling in the blanks. (Each carry 1 marks)**
- 7) The molecular formula of a saturated hydrocarbon having 4 carbon atoms is _____
(C_4H_6 , C_4H_8 , C_4H_{10})
 - 8) Mendeleev included _____ elements in his periodic table. (56, 63, 40)
 - 9) To know the presence of starch in the leaf of the plant the solution of _____ is used.
(iodine, lime)
 - 10) _____ develops between uterine wall and foetus of the mother to fulfil the need of nutrition.
(Placenta, Amnion)
 - 11) _____ lens is called divergent lens. (Concave, Convex)
 - 12) The wind speed should be higher than _____ km/h to maintain the required speed of the turbine.
(10, 15)
- * **State True or False. (Each carry 1 marks)**
- 13) In modern periodic table, inert gas elements are placed in eighth group.
 - 14) The internal structure and arrangement of bones of the forelimbs of lizard, bird and human being are different.
 - 15) Laws of reflection are applicable to any type of mirror.
 - 16) No source of energy can be completely pollution free.
- * **Answer in one word or one sentence. (Each carry 1 marks)**
- 17) What would be the progeny of cross made between tall plant with round seeds and a short plant with wrinkled seed look like ?

- 18) What is synapse ?
- 19) When can it be said that two species possess common ancestor ?
- 20) What is the name of instrument to measure electric current ?
- 21) What is nuclear fission ?
- 22) What are called non-biodegradable substances ?
- 23) Give an example for one of the approaches 'Refuse' to save environment.
- 24) Match the given pair properly.

A	B
a. Insulin	1. Goitre
b. Thyroxin	2. Dwarfism
	3. Diabetes

SECTION - B

* **Answer in short. (Any 9) (Each carry 2 marks)**

[18]

- 25) Complete the following reaction and balance the equation : $NaOH + H_2SO_4 \rightarrow$
- 26) Explain roasting and calcination with example.
- 27) Explain the achievements (merits) of Mendeleev's periodic table.
- 28) The electronic configuration of an element is 2, 8, 7 :
 - (a) What is the atomic number of this element ?
 - (b) To which of the following elements is this element chemically similar ?
N(7), F(9), P(15), Ar(18)
- 29) Why do living organisms reproduce ?
- 30) In what way homologous organs provide evidence for evolution ?
- 31) Write Ohm's law. How it is useful to define the SI unit of resistance, Explain.
- 32) What is heating effect of electric current ? State various practical applications heating effect of electric current in everyday life.
- 33) Name the three types of wires used in household circuit with their respective colour of insulation.
- 34) What are the problems caused by the non-biodegradable wastes that we generate ?
- 35) What are serious effects of deforestation ?
- 36) Of the five R's to save environment explain one R - 'Reduce' with example.

SECTION - C

* **Answer in brief. (Any 6) (Each carry 3 marks)**

[18]

- 37) What type of changes are observed during chemical reaction ?
- 38) Explain thermite process with equation.
- 39) Answer the following questions :
 - (a) Give scientific reason : 22 carat gold is used for making ornaments.
 - (b) Which chemical reaction is used to obtain metal from its oxide ?

SECTION - A

* Do as Directed.

[24]

* State whether the following sentences are True or False. (Each carry 1 marks)

- 1) G.C.D. $(15, 23) = 1$
- 2) 2 is zero of the polynomial $p(x) = x^2 - 6x + 8$
- 3) For $C \in R$, pair of equations $x - 2y = 8$ and $5x - 10y = c$ has unique solution.
- 4) Quadratic equation $2x^2 + 5x + 5 = 0$ has real roots.
- 5) $1, -2, -5, -8, \dots$ is Arithmetic Progression.
- 6) Arithmetic Progression $0, 2, 4, 6, \dots$ has $A_{10} = 20$.

* Fill in the blanks. (Each carry 1 marks)

- 7) G.C.D. $(144, 610)$ is _____
- 8) If pair of linear equations in two variables $a_1x + b_1y + c_1 = 0$ and $a_2x + b_2y + c_2 = 0$ so

$\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$ equations has _____ solution.

- 9) In quadratic equation $b^2 - 4ac < 0$ then two roots are _____
- 10) For Arithmetic progression $a_{18} - a_8 =$ _____
- 11) All _____ are triangles similar.
- 12) If $a = -2, d = 0$ then $a_4 =$ _____

* Give answer of the question with required calculations. (Each carry 1 marks)

- 13) Determine the AP whose 3rd term is 5 and the 7th term is 9.
- 14) If α and β are the zeros of the quadratic polynomial $f(x) = ax^2 + bx + c$, then write sum of zeroes and product of zeroes.
- 15) In $\triangle ABC$, $AB = 11 \text{ cm}$, $BC = 60 \text{ cm}$ and $CA = 61 \text{ cm}$ then, write type of $\triangle ABC$.
- 16) $2 \cos^2 30^\circ + x \cdot \sin^2 60^\circ - \frac{3}{4} \tan^2 30^\circ = 10$ so, find x .
- 17) How many tangents can a circle have ?
- 18) The common point of a tangent to a circle and the circle is called _____.

* **Answer the following questions. (Each carry 1 marks)**

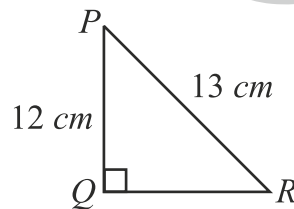
- 19) When $A =$ _____ then $\sin 2A = 2\sin A$ is true.
 (A) 60° (B) 45° (C) 30° (D) 0°
- 20) Length of an arc of a sector of angle $\theta =$ _____
 (A) $\frac{360}{\theta} \times \pi r$ (B) $\frac{\theta}{360} \times 2\pi r$ (C) $\theta \times \pi r$ (D) $\frac{360}{\theta} \times 2\pi r$
- 21) Which of the following cannot be the probability of an event ?
 (A) $\frac{2}{3}$ (B) -1.5 (C) 15% (D) 0.7
- 22) $K \cdot \text{median} = \text{Mode} + 2 \text{ mean}$ then $K =$ _____
 (A) 0 (B) 1 (C) 2 (D) 3
- 23) Volume of sphere is $36\pi \text{ cm}^3$ then diameter is _____ cm
 (A) 3 (B) 6 (C) 9 (D) 12
- 24) If $r = 3 \text{ cm}$, $h = 4 \text{ cm}$ then surface area of cylinder = _____ cm^2
 (A) 15π (B) 12π (C) 36π (D) 48π

SECTION - B

* **Answer the following questions. (Any 9) (Each carry 2 marks)**

[18]

- 25) Use Euclid's division algorithm to find the HCF of 144 and 233.
- 26) Find the LCM and HCF of 12, 15 and 21 by applying the Prime Factorization method.
- 27) Find a quadratic polynomial, the sum and product of whose zeroes are $-\frac{1}{4}$ and $\frac{1}{4}$ respectively.
- 28) If $n = 5$, $d = 3$ and $a_n = 50$ then find n and S_n .
- 29) Find sum of : $(-5) + (-8) + (-11) + \dots + (-230)$
- 30) Find $\tan P - \cot R$ from figure.



- 31) The length of a tangent from a point A at distance 5 cm from the centre of the circle is 4 cm . Find the radius of the circle.
- 32) Two concentric circles are of radii 5 cm and 3 cm . Find the length of the chord of the larger circle which touches the smaller circle.

- 33) 2 cubes each of volume 64 cm^3 are joined end to end. Find the surface area of the resulting cuboid.
- 34) 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.
- 35) The table below shows the daily expenditure on food of 25 households in a locality.
- | | | | | | |
|---------------------------|---------|---------|---------|---------|---------|
| Daily expenditure (in Rs) | 100-150 | 150-200 | 200-250 | 250-300 | 300-350 |
| Number of households | 4 | 5 | 12 | 2 | 2 |
- 36) 12 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.

SECTION - C

- * **Answer the following questions. (Any 6) (Each carry 3 marks)** **[18]**
- 37) Find the zeroes of $6x^2 + x - 12$ and verify the relationship between the zeroes and the coefficients.
- 38) Find the zeroes of $4y^2 + 8y$ and verify the relationship between the zeroes and the coefficients.
- 39) Solve the following pair of equation by substitution method :
- $$3x + 5y = 6, 9x - 15y = -6$$
- 40) Find the roots of : $\frac{1}{x+4} - \frac{1}{x-7} = \frac{11}{30}; x \neq 7, -4$
- 41) Find the ratio in which the line segment joining the points $(-3, 10)$ and $(6, -8)$ is divided by $(-1, 6)$.
- 42) Find the area of a rhombus if its vertices are $(3,0), (4, 5), (-1, 4)$ and $(-2, -1)$ taken in order.
- 43) The length of the minute hand of a clock is 14 cm . Find the area swept by the minute hand in 5 minute.
- 44) A chord of a circle of radius 15 cm subtends an angle of 60° at the centre. Find the areas of the corresponding minor and major segments of the circle.
- 45) A box contains 90 discs which are numbered from 1 to 90. If one disc is drawn at random from the box, find the probability that it bears (i) a two digit number (ii) a perfect square number (iii) a number divisible by 5.

SECTION - D

* Answer the following questions. (Any 5) (Each carry 4 marks)

[20]

- 46) In $\triangle ABC$ $\angle A = 90^\circ$ then prove that $AB^2 + AC^2 = BC^2$
- 47) The ratio of the areas of two similar triangle is equal to the square of the ratio of their corresponding sides.
- 48) Draw a line segment of length 11.2 cm and divide it in the ratio $5 : 8$. Measure the two parts.
- 49) Draw line segment AB of length 10 cm . Taking A as centre, draw a circle of radius 4 cm and taking B as centre, draw another circle of radius 3 cm . Construct tangents to each circle from the centre of the other circle.
- 50) A contractor plans to install two slides for the a children to play in a park. For the children below the age of 5 years. She Prefers to have a slide whose top is at a height of 1.5 m and is inclined at an angle of 30° to the ground, whereas for elder children, she wants to have sleep slide at a height of 3 m and inclined at an angle of 60° to the ground. What should be the length of the slide in each case ?
- 51) A tent is in the shape of a cylinder surmounted by a conical top. If the height and diameter of the cylindric part are 4.2 m and 8 m respectively and the slant height of the top is 6 m . Find the area of the canvas used for making the tent. Also, find the cost of the canvas of the tent at the rate of Rs. 500 per m^2 .
- 52) The following table gives the literacy rate of 35 cities. Find the mean literacy rate.

Literacy rate in (%)	45-55	55-65	65-75	75-85	85-95
Number of cities	3	10	11	8	3

- 53) The following table shows the ages of patients admitted in a hospital during a year :

Age	5-15	15-25	25-35	35-45	45-55	55-65
No. of patients	6	11	21	23	14	5

Find the mode and the mean of the data given above.

SECTION - A

- * **Answer the following questions. (Each carry 1 marks)** [24]
- * **State whether the following sentences are True or False.**
- 1) The product of two irrational numbers is always irrational number is irrational.
 - 2) Numbers at zeroes at polynomial $p(x) = x^2 - 10x + 16$ are three.
 - 3) The arithmetic sum of first n even number is n^2 .
 - 4) The midpoint of the line segment joining $A(8, -3)$, $B(-3, 5)$ is $(5, 4)$.
 - 5) If a line in the plane of the circle is perpendicular at a point A to the circle with radius PA then this line is a tangent to the circle.
 - 6) Probability of an event that sun rises in west is 1.
- * **Answer the following questions (Each carry 1 marks)**
- 7) 6, 7, $x-2$, x , 17 and 20 are six observations in an increasing order with median 16 then $x =$ _____
 (A) 15 (B) 16 (C) 17 (D) 18
 - 8) Length of one fourth are of the sector of the circle with radius 28 cm is _____
 (A) 14π (B) 28π (C) 7π (D) 36π
 - 9) Measure of an angle subtends by the minute hand during 15 minute is _____
 (A) 15 (B) 45 (C) 60 (D) 90
 - 10) The angle of elevation of the sun at 9 o'clock is x and at 11 o'clock is y . Then _____
 (A) $x < y$ (B) $x > y$ (C) $x \geq y$ (D) $x = y$
 - 11) $2 \cos 30^\circ \times \sin 30^\circ = \sin \theta$ then $\theta =$ _____
 (A) 60° (B) 45° (C) 30° (D) 90°
 - 12) In ΔPQR , $PR^2 = PQ^2 + QR^2$. The _____ of following.
 (A) $\angle Q = 90^\circ$ (B) $\angle P = 90^\circ$ (C) $\angle Q > 90^\circ$ (D) $\angle Q < 90^\circ$
- * **Fill in the blanks. (Each carry 1 marks)**
- 13) p_1 and p_2 are two distinct prime numbers then their HCF is _____
 - 14) If $2a - 3b = ab$, $\frac{6}{b} - \frac{9}{a} =$ _____. ($a \neq 0, b \neq 0$)
 - 15) $\frac{x}{2} = \frac{8}{y} = 4$ then $x - y =$ _____.
 - 16) If roots of the equation $x^2 - kx + 4 = 0$ are equal then $k =$ _____
 - 17) The perpendicular distance of the point $(-4, 9)$ from Y -axis is _____
 - 18) In ΔABC and ΔMNO , $\angle M = \angle A$, $\angle O = \angle B$ then $\Delta MNO \sim$ _____ similar.

* Give answer of the following question with required calculations. (Each carry 1 marks)

- 19) In a two digit number, the unit's digit is 5 and the ten's digit is $2y$. Find the number.
- 20) If 3 is the solution of the quadratic equation $2x^2 - kx + 9 = 0$ then find the value of k .
- 21) n^{th} term of an A.P is $(7n-3)$ find its common difference.
- 22) If $\tan 2A = \cot(A - 18^\circ)$ where $2A$ is acute angle then find the value of A .
- 23) The ratio of the radii of two sphere is 3 : 5 what is the ratio of their volumes ?
- 24) A cone has radius 6 cm and height 8 cm. Find the curved surface area of the cone.

SECTION - B

* Answer the following questions. (Any 9) (Each carry 2 marks) [18]

- 25) Use Euclid's division algorithm to find the HCF of 867 and 255.
- 26) Find the zeroes of the polynomial $x^2 - 3$ and verify the relationship between the zeroes and the coefficients.
- 27) Find a quadratic polynomial each with the given numbers as the sum and product of its zeroes respectively : $\frac{1}{4}, -1$
- 28) Solve the following pair of linear equations by the substitution method :
 $0.2x + 0.3y = 1.3$ (i) $0.4x + 0.5y = 2.3$(ii)
- 29) Solve using elimination method $9x - 4y = 14$ and $7x - 3y = 11$
- 30) Find the roots of the quadratic equation $3x^2 - 5x + 2 = 0$ using quadratic formula.
- 31) Determine the AP whose 3rd term is 5 and the 7th term is 9.
- 32) A girl of height 90 cm is walking away from the base of a lamp-post at a speed of 1.2 m/s. If the lamp is 3.6 m above the ground, find the length of her shadow after 4 seconds.
- 33) Check whether (5, -2), (6, 4) and (7, -2) are the vertices of an isosceles triangle.
- 34) Evaluate the following : $2 \tan^2 45^\circ + \cos^2 30^\circ - \sin^2 60^\circ$
- 35) In $\triangle ABC$ $\angle B$ is a right angle $AB = 5$ cm, $BC = 15$, find the radius of the circle which touches all the sides of $\triangle ABC$.
- 36) The given distribution shows the number of runs scored by some top batsmen of the world in one day international cricket matches.

Runs scored	Number of batsmen
3000 - 4000	4
4000 - 5000	18
5000 - 6000	9
6000 - 7000	7
7000 - 8000	6
8000 - 9000	3
9000 - 10000	1
10000 - 11000	1

Find mode of the data.

SECTION - C

* **Answer the following questions. (Any 6) (Each carry 3 marks)** **[18]**

- 37) The altitude of a right triangle is 7 cm less than its base. If the hypotenuse is 13 cm , find the other two sides.
- 38) Is it possible to design a rectangular park of perimeter 82 m and area 400 m^2 ? If so, find its length and breadth.
- 39) The first and the last terms of an AP are 17 and 350 respectively. If the common difference is 9 , how many terms are there and what is their sum?
- 40) A chord of a circle of radius 10 cm subtends a right angle at the centre. Find the area of the corresponding : (i) minor segment (ii) major sector. (Use $\pi = 3.14$)
- 41) A cubical block of side 7 cm is surmounted by a hemisphere. What is the greatest diameter the hemisphere can have? Find the surface area of the solid.
- 42) Thirty women were examined in a hospital by a doctor and the number of heartbeats per minute were recorded and summarised 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

- 43) If the median of the distribution given below is 28.5 . Find the values of x and y .

Class interval	Frequency
0 - 10	5
10 - 20	x
20 - 30	20
30 - 40	15
40 - 50	y
50 - 60	5
Total	60

- 44) Two dice are tossed together write all possible outcomes of this experiment. Find the probability of getting
- (i) 7 as the sum
 - (ii) a sum greater than 10
 - (iii) a sum less than 13
- 45) A coin is tossed thrice find the following probability :
- (1) A : Getting at least two heads
 - (2) B : Getting exactly two heads
 - (3) C : Number of heads is more than number of tail

SECTION - D

* **Answer the following questions. (Any 5) (Each carry 4 marks)** **[20]**

- 46) A train travels 360 *km* at a uniform speed. If the speed had been 5 *km/h* more, it would have taken 1 hour less for the same journey. Find the speed of the train.
- 47) The ratio of the areas of two similar triangle is equal to the square of the ratio of their corresponding sides.
- 48) A tree breaks due to storm and the broken part bends so that the top of the tree touches the ground making an angle 30° with it. The distance between the foot of the tree to the point where the top touches the ground is 8 *m*. Find the height of the tree.
- 49) Draw a line segment *AB* of length 8 *cm*. Taking *A* as centre, draw a circle of radius 4 *cm* and taking *B* as centre, draw another circle of radius 3 *cm*. Construct tangents to each circle from the centre of the other circle.
- 50) A tent is in the shape of a cylinder surmounted by a conical top. If the height and diameter of the cylindrical part are 2.1 *m* and 4*m* respectively and the slant height of the top is 2.8*m*. Find the area of the canvas used for making the tent. Also, find the cost of the canvas of the tent at the rate of Rs. 500 per m^2 . (Note that the base of the tent will not be covered with canvas.)
- 51) 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.
- 52) The sum of a two-digit number and the number obtained by reversing the digits is 66. If the digits of the number differ by 2, find the number. How many such numbers are there ?
- 53) A survey regarding the height of 51 girls of class *X* of a school was conducted and the following data was obtained.

Height (in <i>cm</i>)	Less than 140	Less than 145	Less than 150	Less than 155	Less than 160	Less than 165
Number of girls	4	11	29	40	46	51

Find the median height.

SECTION - A

- * Answer the following questions. (Each carry 1 marks) [24]
- * State whether the following sentences are True or False. (Each carry 1 marks)
- Two coins are tossed together. The probability of an event that on both coin head or tail comes up is 0.5.
 - If a line l is in the plane circle and it is perpendicular to the chord AB at a point A it is not a tangent to the circle.
 - The distance of the point $(-5, 12)$ from the origin is -13 .
 - If one corresponding between two triangles is similarity then all the remaining corresponding are similarity.
 - $3, 3, 3, 3, \dots$ is an AP .
 - Probability of an event that sun rises in west is 1.
- * Answer the following questions (Each carry 1 marks)
- $\frac{417}{350}$ is a _____ form.
(A) Terminating (B) Non terminating (C) Repeating (D) Integer
 - α, β and γ are the roots of cubic polynomial $ax^3 + bx^2 + cx + d$ then $\frac{1}{\alpha\beta} + \frac{1}{\beta\gamma} + \frac{1}{\gamma\alpha} =$ ____
(A) $\frac{b}{d}$ (B) $\frac{d}{b}$ (C) $\frac{c}{d}$ (D) $-\frac{c}{d}$
 - Kinjal is asking to Dipti that before 3 years the sum of their ages were 36, then tell me that after 4 years what will be the sum of their ages ?
(A) 53 years (B) 43 years (C) 39 years (D) 50 years
 - The ones of two digit x and tens is y , then the double of that digit is ____
(A) $10x + 2y$ (B) $2y + 20x$ (C) $20y + 2x$ (D) $2x + 10y$
 - The equation $ax^2 + bx + c = 0, a \neq 0$ has equal roots. Then
(A) $a^2 = 4bc$ (B) $b^2 = 4ac$ (C) $c^2 = 4bc$ (D) $a + b + c = 0$
 - To draw a give curve we take _____ on Y -axis.
(A) upper boundary point (B) lower boundary point
(C) cumulative frequency (D) mid value

* **Fill in the blanks. (Each carry 1 marks)**

- 13) $12\sin\theta = 4\cos\theta$ then $\cot\theta =$ _____
- 14) If tangents PA and PB from a point P to a circle with centre O are inclined to each other at angle 80° . Then $\angle POA =$ _____
- 15) If the radius of the circle doubled then its area will be _____ times.
- 16) The surface area of a closed hemisphere is 150 cm^2 , then the surface area of the sphere with same measure is _____ cm^2 .
- 17) Mean of first n even natural numbers is _____
- 18) There are two points A and B on the ground at East and West direction of the tower. From the top of the tower, the angle of depression of the points A and B are respectively α and β . $\beta > \alpha$ then the distance of the point _____ is more from the tower.

* **Give answer of the following question with required calculations. (Each carry 1 marks)**

- 19) Write $\frac{p}{q}$ form of $0.\overline{6}$.
- 20) Write the degree of the polynomial $(x+1)(x^2-x-x^4+1)$.
- 21) Write the standard form of a quadratic equation.
- 22) n^{th} term of an AP is $(2n-3)$ find its 10^{th} term.
- 23) Find area of square if length of its diagonal is $7\sqrt{2}\text{ cm}$.
- 24) State the formula to find the total surface area of 5 rupees coin.

SECTION - B

* **Answer the following questions. (Any 9) (Each carry 2 marks)**

[18]

- 25) Find the LCM and HCF of the following pairs of integers and verify that $\text{LCM} \times \text{HCF} =$ product of the two numbers : 510 and 92.
- 26) Given that $\text{HCF}(306, 657) = 9$, find $\text{LCM}(306, 657)$.
- 27) Find the zeroes of the following quadratic polynomial and verify the relationship between the zeroes and the coefficients : $6x^2 - 3 - 7x$
- 28) Solve $2x + 3y = 11$ and $2x - 4y = -24$ and hence find the value of m for which $y = mx + 3$.

- 29) Find the roots of the following quadratic equations, if they exist, using the quadratic formula : $2x^2 - 2\sqrt{2}x + 1 = 0$
- 30) How many three digit numbers are divisible by 7 ?
- 31) $\triangle ABC \sim \triangle XYZ$ and their areas be respectively 72 cm^2 and 200 cm^2 . If $YZ = 10 \text{ cm}$ find BC .
- 32) Evaluate the following : $\frac{5\cos^2 60^\circ + 4\sec^2 30^\circ - \tan^2 45^\circ}{\sin^2 30^\circ + \cos^2 30^\circ}$
- 33) Two concentric circles are of radii 17 cm and 8 cm . Find the length of the chord of the larger circle which touches the smaller circle.
- 34) A student noted the number of cars passing through a spot on a road for 100 periods each of 3 minutes and summarised it in the table given below. Find the mode of the data.
- | | | | | | | | | |
|----------------|------|-------|-------|-------|-------|-------|-------|-------|
| Number of cars | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 |
| Frequency | 7 | 14 | 13 | 12 | 20 | 11 | 15 | 8 |
- 35) A die is tossed once. Find the probability of getting (i) an odd number (ii) Greater than 5.
- 36) Solve using elimination method $9x - 4y = 14$ and $7x - 3y = 11$.

SECTION - C

- * **Answer the following questions. (Any 6) (Each carry 3 marks)** **[18]**
- 37) Half the perimeter of a rectangular garden, whose length is 4 m more than its width, is 36 m . Find the dimensions of the garden.
- 38) If the sum of the first n terms of an AP is $4n - n^2$, what is the first term (that is S_1) ? What is the sum of first two terms ? What is the second term ? Similarly, find the 3rd, the 10th and the n th terms. If the sum of the first n terms of an AP is $4n - n^2$ what is the sum of first two terms ?
- 39) Find the coordinates of the points of trisection of the line segment joining $(4, -1)$ and $(-2, -3)$.
- 40) A contractor plans to install two slides for the children to play in a park. For the children below the age of 5 years, she prefers to have a slide whose top is at a height of 1.5 m , and is inclined at an angle of 30° to the ground, whereas for elder children, she wants to have a steep slide at a height of 3 m , and inclined at an angle of 60° to the ground. What should be the length of the slide in each case ?
- 41) The cost of fencing a circular field at the rate of Rs. 24 per meter is Rs. 5280. The field is to be ploughed at the rate of Rs. 0.50 per m^2 . Find the cost of ploughing the field. (Take $\pi = 22/7$)

- 42) Following table shows the marks scored by students in a test of 100 marks.

Marks	0-34	35-50	51-70	71-90	91-100
Number of students	7	10	14	11	8
Result	F	D	C	B	A

Find the probability that a student obtained

(i) *F* grade

(ii) *A* grade

(iii) *D* grade

- 43) The following distribution shows the daily pocket allowance of children of a locality. The mean pocket allowance is Rs. 18. Find the missing frequency f .

Daily pocket allowance (in Rs.)	11-13	13-15	15-17	17-19	19-21	21-23	23-25
Number of children	7	6	9	13	f	5	4

- 44) Find the roots of the following equations: $\frac{1}{x} - \frac{1}{x-2} = 3$, $x \neq 0, 2$

- 45) A solid is in the shape of a cone standing on a hemisphere with both their radii being equal to 1 *cm* and the height of the cone is equal to its radius. Find the volume of the solid in terms of π .

SECTION - D

- * **Answer the following questions. (Any 5) (Each carry 4 marks)** **[20]**

- 46) In a class test, the sum of Shefall's marks in Mathematics and English is 30. Had she got 2 marks more in Mathematics and 3 marks less in English, the product of their marks would have been 210. Find her marks in the two subjects.
- 47) In a right triangle, the square of the hypotenuse is equal to the sum of the square of the other two sides.
- 48) Draw a pair of tangents to a circle of radius 5 *cm* which are inclined to each other at an angle of 60° .
- 49) A cubical block of side 7 *cm* is surmounted by a hemisphere. What is the greatest diameter the hemisphere can have? Find the surface area of the solid.
- 50) Rachel, an engineering student, was asked to make a model shaped like a cylinder with two cones attached at its two ends by using a thin aluminium sheet. The diameter of the model is 3 *cm* and its length is 12 *cm*. If each cone has a height of 2 *cm*, find the volume of air contained in the model that Rachel made. (Assume the outer and inner dimensions of the model to be nearly the same.)

- 51) The ratio of incomes of two persons is 9 : 7 and the ratio of their expenditures is 4 : 3. If each of them manages to solve Rs. 2000 per month, find their monthly incomes.
- 52) Write all the other trigonometric ratios of $\angle A$ in terms of $\sec A$.
- 53) The median of the following data is 525. Find the values of x and y , if the total frequency is 100.

Class Interval	Frequency (f_i)
0-100	2
100-200	5
200-300	x
300-400	12
400-500	17
500-600	20
600-700	y
700-800	9
800-900	7
900-1000	4

વર્ગ અને વર્ગમૂળ

વર્ગ	વર્ગમૂળ	વર્ગ	વર્ગમૂળ	વર્ગ	વર્ગમૂળ
$1^2 = 1$	$\sqrt{1} = 1$	$11^2 = 121$	$\sqrt{121} = 11$	$21^2 = 441$	$\sqrt{441} = 21$
$2^2 = 4$	$\sqrt{4} = 2$	$12^2 = 144$	$\sqrt{144} = 12$	$22^2 = 484$	$\sqrt{484} = 22$
$3^2 = 9$	$\sqrt{9} = 3$	$13^2 = 169$	$\sqrt{169} = 13$	$23^2 = 529$	$\sqrt{529} = 23$
$4^2 = 16$	$\sqrt{16} = 4$	$14^2 = 196$	$\sqrt{196} = 14$	$24^2 = 576$	$\sqrt{576} = 24$
$5^2 = 25$	$\sqrt{25} = 5$	$15^2 = 225$	$\sqrt{225} = 15$	$25^2 = 625$	$\sqrt{625} = 25$
$6^2 = 36$	$\sqrt{36} = 6$	$16^2 = 256$	$\sqrt{256} = 16$	$26^2 = 676$	$\sqrt{676} = 26$
$7^2 = 49$	$\sqrt{49} = 7$	$17^2 = 289$	$\sqrt{289} = 17$	$27^2 = 729$	$\sqrt{729} = 27$
$8^2 = 64$	$\sqrt{64} = 8$	$18^2 = 324$	$\sqrt{324} = 18$	$28^2 = 784$	$\sqrt{784} = 28$
$9^2 = 81$	$\sqrt{81} = 9$	$19^2 = 361$	$\sqrt{361} = 19$	$29^2 = 841$	$\sqrt{841} = 29$
$10^2 = 100$	$\sqrt{100} = 10$	$20^2 = 400$	$\sqrt{400} = 20$	$30^2 = 900$	$\sqrt{900} = 30$

Section - A

* **Read the following passage and select the correct answer from the options given below. [02]**

Thinking about Wanda and her hundred dresses all lined up in the closet, Maddie began to wonder who was going to win the drawing and colouring contest. For girls, this contest consisted of designing dresses and for boys, of designing motorboats. Probably Peggy would win the girls' medal. Peggy drew better than anyone else in the room. At least, that's what everybody thought. She could copy a picture in a magazine or some film star's head so that you could almost tell who it was. Oh, Maddie was sure Peggy would win. Well, tomorrow the teacher was going to announce the winners. Then they'd know.

The next day it was drizzling. Maddie and Peggy hurried to school under Peggy's umbrella. Naturally, on a day like this, they didn't wait for Wanda Petronski on the corner of Oliver Street, the street that far, far away, under the railroad tracks and up the hill, led to Boggins Heights. Anyway, they weren't taking chances on being late today, because today was important.

1. What was going on in Maddie's mind constantly ?
(A) Were there really hundred dresses all lined up in Wanda's closet ?
(B) Who will win the drawing and colouring contest ?
(C) Whether Peggy would win the contest or not.
(D) Who will design a prize-winning motorboat among all ?
2. Everybody's assumption about Peggy's winning the contest was reasonable as ...
(A) Peggy drew better than anyone else in the room.
(B) Peggy could copy a picture in a magazine or some film star's head quite vividly.
(C) Both A and B
(D) Peggy always stood first in the drawing competition.

* **Read the following passage and answer the questions. [03]**

The fiercely independent people of Coorg are possibly of Greek or Arabic descent. As one story goes, a part of Alexander's army moved south along the coast and settled here when return became impractical. These people married amongst the locals and their culture is apparent in the martial traditions, marriage and religious rites, which are distinct from the Hindu mainstream.

3. What must be the origin of Coorg People ?
4. Why did Alexander's army settle along the coast ?
5. How did the martial traditions among the Coorg people come to being ?

* **Fill in the blanks choosing the correct words given in the brackets. [05]**

(Single-piece, trousers, full-length, peculiar, wearing)

The baker or bread-seller of those days had a 6 dress known as the Kabai. It was a 7 long frock reaching down to the knees. In our childhood we saw bakers 8 a shirt and 9 which were shorter than 10 ones and longer than half pants.

* **Answer the questions in five to six sentences each. (Any five) [10]**

11. How did Valli plan her bus ride ? What did she find out about the bus, and how did she give up the fare ?
12. What kind of girl was Peggy ?
13. Who was Lencho ? Where did he live ? Give a brief description of Lencho's family.
14. How did Mandela's 'hunger for freedom' change his life ?
15. How did the young seagull get over his fear of sea-water and what was his family's reaction on it ?

16. What made the woman in the control centre look at the narrator strangely ?
 17. What does Nelson Mandela refer to as 'an extraordinary human disaster' ?

Section - B

* **Read the following stanza and answer the questions given below it.** [02]

Don't eat that chocolate, Amanda !
 Remember your acne, Amanda !
 Will you please look at me when I'm speaking to you, Amanda !
 (I am Rapunzel, I have not a care);
 Life in a tower is tranquil and rare;
 I'll certainly never let down my bright hair!

18. Why does mother ask Amanda not to eat that chocolate ?
 19. Why will Amanda not let down her bright hair ?

* **Select the correct figures of speech from the given options.** [02]

20. 'What, what is he to do?'
 (A) Repetition (B) Alliteration (C) Interrogation (D) All the three
 21. 'But if it had to Perish twice.'
 (A) Metaphor (B) Synecdoche (C) Oxymoron (D) Paradox

* **Answer the questions in five to six sentences each. (Any five)** [08]

22. 'On Pads of Velvet quiet/in his quiet rage', What does the tiger do in his cage ?
 23. 'And saved some part of a day. I had rued.' Explain.
 24. What does the poet say the boy is learning from the loss of the ball ? Try to explain this in your own word.
 25. Why does Amanda wish to be a mermaid, an orphan or Rapunzel ?
 26. Describe the flight between the dragon and the pirate ?
 27. 'No one Kneels to another.' Explain in reference to human beings.

Section - C

* **Rectify the errors.** [04]

	Error	Correction
28. No one is borne hating another person.	_____	_____
29. Because on the colour of his skin.	_____	_____
30. Or his background, or his religious.	_____	_____
31. People must learn on hate, and if they can learn to hate, they can be taught to love.	_____	_____

* **Fill in the blanks with proper articles, conjunction and prepositions.** [04]

(Write only the answers.)

Paper has more patience than people, I thought of this saying ____32____ one of those days ____33____. I was feeling ____34____ little depressed and was sitting at home with my chin in my hands, bored and listless, wondering ____35____ to stay in or go out. I finally stayed where I was, brooding.

* **Convert the following into indirect speech.**

[03]

36. "Look, Peg" Whispered Maddie.

"There's that blue one she told as about. Isn't it beautiful ?"

"Yes", said Peggy, "And here's that green one. Boy, and I thought I could draw."

* **Do as directed.**

[07]

37. The sight of the food Maddened him. (Select the correct exclamatory sentence.)

(A) Why the sight of the food Maddened him !

(B) How the sight of the food Maddened him !

(C) Alas ! the sight of the food Maddened him !

(D) The sight of the food really Maddened him !

38. The policy of apartheid created a deep and lasting wound in my country and my people. (Select the appropriate passive voice.)

(A) A deep and lasting wound in my country and my people is created by the policy of apartheid.

(B) A deep and lasting wound in my country and my people was created by the policy of apartheid.

(C) A deep and lasting wound in my country and my people has been created by the policy of apartheid.

(D) A deep and lasting wound in my country and my people will be created by the policy of apartheid.

39. I hope it passes quickly. (Select the correct question tag.)

(A) I hope it passes quickly, didn't I ?

(B) I hope it passes quickly, don't I ?

(C) I hope it passes quickly, doesn't it ?

(D) I hope it passes quickly, didn't it ?

40. Wasn't there anything she could do ? (Select the correct assertive sentence.)

(A) There must be anything she could do.

(B) There should be anything she could do.

(C) There wasn't something she could do.

(D) There was something she could do.

41. There was not a sign of life about the house. (Select the correct interrogative sentence.)

(A) Was there a sign of life about the house ?

(B) Is there a sign of life about the house ?

(C) Wasn't there a sign of life about the house ?

(D) Doesn't there a sign of life about the house ?

42. The young seagull was too afraid to fly. (Select the correct sentences without 'too'.)

(A) The young seagull was so afraid that he could fly.

(B) The young seagull was so afraid that he couldn't fly.

(C) The young seagull was very afraid to fly.

(D) The young seagull was so afraid to fly.

43. His first flight had been made by him. (Select the correct active voice.)

(A) He has made his first flight

(B) He made his first flight

(C) He had made his first flight

(D) His first flight was made by him

Section - D

44. You are Avani/Avi Mehta. Make a diary entry of your two day visit to your friends village. [05]
OR
44. A famous cricketer visited your school. You are the sports secretary of your school. Write at least four dialogues, which you used to interview him/her.
45. You are the secretary of the reflection club of your school. The annual day celebration of the school is to be held next month. Write a notice for the school display board in this reference. [05]
OR
45. Your school is organizing a health attractive camp on the precautions to be taken against COVID-19. Prepare an attractive poster for the same.
OR
45. You are the owner of a fitness centre. Prepare an impressive advertisement for the promotion of your fitness centre.

Section - E

46. You watched a rescue operation during the floods in a river in the monsoon season. Write a report based on your observation. [06]
47. Write an e-mail to the editor of 'The Times of India' on the need of a city library with internet facilities at nominal rates for students. [06]
OR
47. You visited your friend's painting exhibition last week. Write a letter to your uncle describing your experiences of the same.
48. Write an essay in about 200 words : (Any one) [08]
(1) **Importance of Sports in Education**
(various subjects - sports - benefits - fitness and health)
(2) **Power of press and media**
(Powerful medium of communication - uses - misuses - your opinion)
OR
48. Write a story in about 200 words based on the inputs given below :
(An illiterate boy - caught for pick pocketing - sent to juveniles prison - forced to do lessons - becomes sullen rebellious - watches french comic film on TV during recreation hour - requested for coaching classes - a french tourist guide today.)

Section - A

- * **Read the following passage and select the correct answer from the options given below. [02]**

I started right away at the Montessori nursery school. I stayed there until I was six, at which time I started in the first form. In the sixth form my teacher was Mrs. Kuperus, the headmistress. At the end of the year, we were both in tears as we said a heartbreaking farewell.

In the summer of 1941 Grandma fell ill and had to have an operation, so my birthday passed with little celebration.

Grandma died in January 1942. No one knows how often I think of her and still love her. This birthday celebration in 1942 was intended to make up for the other, and Grandma's candle was lit along with the rest.

1. The word 'form' used in this passage stands for ...
(A) format (B) standard (C) drawing (D) type
2. Which sentence in the passage suggests that the writer was emotionally attached with her teacher ?
(A) I stayed there until I was six, at which time I started in the first form.
(B) In the sixth form my teacher was Mrs. Kuperus, the headmistress.
(C) At the end of the year, we were both in tears as we said a heartbreaking farewell.
(D) I started right away at the Montessori nursery school.

- * **Read the following passage and answer the questions. [03]**

The baker usually collected his bills at the end of the month. Monthly accounts used to be recorded on some wall in pencil. Baking was indeed a profitable profession in the old days. The baker and his family never starved. He, his family and his servants always looked happy and prosperous. Their plump physique was on open testimony to this. Even today any person with a jack fruit like physical appearance is compared to a baker.

3. How were monthly accounts recorded ?
4. What was the apparent fact that revealed baker's family happy and prosperous ?
5. What does the writer mean by the words Jackfruit like appearance ?

- * **Fill in the blanks choosing the correct words given in the brackets. [05]**

(casually, marshes, to collect, better, common)

When I ____ 6 ____ mentioned this to a friend, he as casually replied that I had ____ 7 ____ get one in the Tigris ____ 8 ____ for there they were ____ 9 ____ as mosquitoes, and were often tamed by the Arabs. We were going to Basra to the consulate General ____ 10 ____ and answer our mail from Europe.

- * **Answer the questions in five to six sentences each. (Any five) [10]**

11. Why didn't Maddie ask Peggy to stop teasing Wanda ? What was she afraid of ?
12. How does Natalya excite Lomov to the point of Verbal fighting ?
13. 'Paper has more Patience than People.' Justify.
14. How can you say that Maddie is an emotional girl ? Compare and contrast Maddie and Peggy.
15. What are the elders in Goa nostalgic about ?
16. Why does Valli refuse to look out of the window on her way back ?
17. How did Kisa Gotami realize that life and death is a process ?

Section - B

- * **Read the following stanza and answer the questions given below it.** [02]
- Not one is dissatisfied, not one is demented with the mania of Owing things,
 Not one kneels to another, nor to his kind that lived thousands of years ago,
 Not one is respectable or unhappy over the whole earth.
18. What are the animals not crazy about ?
19. Which lines show that animals do not believe in people - worship ?
- * **Select the correct figures of speech from the given options.** [02]
20. _____ a mermaid, drifting blissfully.
 (A) Internal Rhyme (B) Metaphor (C) Synecdoche (D) Metonymy
21. 'They do not lie awake in the dark ...'
 (A) Metaphor (B) Synecdoche (C) Oxymoron (D) Internal Rhyme
- * **Answer the questions in five to six sentences each. (Any five)** [08]
22. Comment on the ending of the poem 'Fire and Ice'.
23. How did Belinda's pets other than custard face the pirate ?
24. What does the poet say the boy is learning from the loss of the ball ? Try to explain this in your own words.
25. Why does Amanda wish to be a mermaid, an orphan or Rapunzel ?
26. Describe the tiger in the world.
27. Money is external, What does the poet mean by this expression ?

Section - C

- * **Rectify the errors.** [04]
- | | Error | Correction |
|--|-------|------------|
| 28. Today, in spite of they had been late to | | |
| 29. school, Maddie is glad she had not | | |
| 30. have to make fun of Wanda, she worked | | |
| 31. her attitude problems absent - minded | | |
- * **Fill in the blanks with proper articles, conjunction and prepositions.** [04]
- (Write only the answers.)
 (as, who, through, that)

That day had come about ____ 32 ____ the unimaginer sacrifices of thousands of my people, people whose suffering and courage can never be counted repaid. I felt that day, ____ 33 ____ I have on so many other days, ____ 34 ____ I was simply the sum of all those African patriots ____ 35 ____ had gone before me.

- * **Convert the following into indirect speech.** [0?]
36. HOB : Now where is your husband, mistress ?
 MARY : In his bed, He is sick and weary. You would not harm him !
 HOB : We are going to smash his evil work to pieces. Where is the machine ?

* **Do as directed.**

37. Nobody has ever heard her caught out loud. (Select the correct passive voice)
 (A) Nobody has ever been heard laugh out loud by her.
 (B) She has never been heard laugh out loud by anybody.
 (C) She has never be heard laugh out loud by anybody.
 (D) She is never heard laugh out loud by anybody.
38. They waited for Wanda to have fun with her. (Select the correct use of 'because'.)
 (A) They wanted to have fun with Wanda because they waited for her.
 (B) They waited for Wanda because to have fun with her.
 (C) They waited for Wanda because she wanted to have fun with them.
 (D) They waited for Wanda because they wanted to have fun with her.
39. Peggy was the most popular girl in the school. (Select the correct positive degree sentence.)
 (A) Peggy was more popular than any other girl in the school.
 (B) Peggy was as popular as any other girl in the school.
 (C) No other girl in the school was so popular as Peggy.
 (D) No other girls in the school was as popular as Peggy.
40. What a story ! (Select the correct assertive sentence)
 (A) It was a story.
 (B) They had not told any story.
 (C) The story was really unbelievable.
 (D) The story was endless.
41. She was too old to lift the bag. (Select the correct sentence removing 'too'.)
 (A) She was very old to lift the bag.
 (B) She was so old that she could not lift the bag.
 (C) She was not very old that she could not lift the bag.
 (D) She was really old but could lift the bag.
42. Baking was indeed a profitable in the old days. (Select the correct exclamatory sentence.)
 (A) How profitable profession was baking in the old days !
 (B) What a profitable profession was baking in the old days !
 (C) What a baking a profitable profession in the old days !
 (D) How was baking a profitable profession in the old days !
43. Gaurav spent most of his time in play. (Select the correct question tag.)
 (A) He spent most of his time in play, didn't he ?
 (B) He spends most of his time in play, doesn't he ?
 (C) No body else spent most of his time in play, did he ?
 (D) He spent most of his time in play, don't he ?

Section - D

44. **You happened to see a serious accident that killed two bikers. This shocked you emotionally as almost no one came forward to help the victims who lay bleeding on the road for a while. Make a diary entry of this Mishap.**

[05]

OR

44. **Write a dialogue between Vasu and his teacher on his coming late.**

45. You are Anamika of 178, Narendra Nagar, New C. G. Road, Ahmedabad. While travelling by bus from Narendra Nagar to Lal Darwaja, you lost your briefcase. It has valuable document including your senior secondary pass certificate. In not more than 50 words, draft an advertisement for the times of India including all the details about the lost briefcase. [05]

OR

45. You are secretary of the music club of your school. Your school, little world school is celebrating 7th inter-school music carnival for the students of classes 8 to 12. Write a notice inviting those who are interested to appear for an audition in the presence of a renowned singer Mrs. Kalyani Kothalkar.

OR

45. Prepare a poster bringing awareness about covid vaccination among people. Highlight the importance and advantages of getting vaccinated in this regard.

Section - E

46. You are Karan/Kirti of L.M. Memorial Public school, Dwarka. Your school has adopted a village as a social responsibility. Students are being taken to teach the children of that village on a regular basis. Write a report for your school magazine on the various other programmes organized there in 150 to 200 words. [06]

47. Though there is a movement like 'Sarvashiksha Abhiyan' and enrolling of underprivileged children in schools, there are still many children, like the one in the picture, who do not go to school, rather have never seen a school. It is indeed disturbing. You decide to write a letter to the editor of a newspaper expressing your views and the steps to be taken. Take ideas from the MCB unit 'Education'. Write the letter in about 120 words. [06]

OR

47. As an intern at ABC consulting Pvt. Ltd, write an e-mail to your internship project manager, Mr. Ramesh, informing about the progress that you are making and some difficulties that you are encountering.

48. Write an essay in about 200 words : (Any one) [08]

(1) **Women Empowerment**

(What is women empowerment ? - Women in treated earlier no right to enjoy is male dominating society - revolution - fight for right - education - no now domestic violence- need of changing time - ways of empowering women.)

(2) **Importance of Sports in Life**

(Physical activity and skill - build the character and personality of a person - physical fitness - mental fitness - boost self confidence - reach discipline and dedication - improves quality of life.)

OR

48. **Complete the story and give it a suitable title :**
I got up in the middle of the night, I was sweating profusely

Section - A

- * **Read the following passage and select the correct answer from the options given below. [02]**

All through the night, Lencho thought only of his 'one hope : the help of God, whose eyes, as he had been instructed, see everything, even what is deep in ones conscience. Lencho was an OX of a man, working like an animal in the fields, but still he knew how to write.

1. What was Lencho's only one hope ?
(A) There would be heavy rain.
(B) God would help him.
(C) It is neighbour would help him.
(D) He would get abundant crop in the next reason.
2. What do you mean by 'Lencho was an Ox of a man' ?
(A) He was as stupid as animal.
(B) He was a hardworking man.
(C) He knew about forming as much as an OX.
(D) He was an honest man.

- * **Read the following passage and answer the questions. [03]**

The next day it was drizzling, Maddie and Peggy hurried to school under Peggy's umbrella. Naturally, on a day like this, they didn't wait for Wanda Petronski on the corner of the Oliver street, the street that far, for away under the railroad tracks and up the hill led to Boggins heights. Anyway, they weren't taking chances on being late today, because today was important.

3. What kind of a day it was ?
4. Where did Maddie and Peggy usually wait for Wanda to join them for school ?
5. Why did Maddie and Peggy not wait for Wanda today ?

- * **Fill in the blanks choosing the correct words given in the brackets. [05]**

(transitory, illusion, already, pleased, freedom)

It was only when I began to learn that my boyhood freedom was an ____6____ when I discovered as a young man that my freedom had ____7____ been taken from me, that I began to hunger for it, At first, as a student, I wanted ____8____ only for myself, the ____9____ freedoms of being able to stay out at night, read what I ____10____ and go where I chose.

- * **Answer the questions in five to six sentences each. (Any five) [10]**

11. Why did Lomov want to get married ?
12. According to Kisa Gotami, what is the greatest grief of life ?
13. How did Valli save money to travel by bus ?
14. Why did Lencho say, the raindrops were like 'new coins' ?
15. How was the Coorgi tradition of courage and bravery recognized in modern India ?
16. What did the girls write to Wanda ?
17. What does Anne write in her first essay ?

Section - B

* **Read the following stanza and answer the questions given below it.** [02]

Some say the world will end in fire
some say in ice.

From what i've tasted of desire
I hold with those who favour fire.

18. What is the poet's opinion about the world ?

19. What is the contradictory opinion of public ?

* **Select the correct figures of speech from the given options.** [02]

20. No use to say 'O there are other balls'.

(A) Internal Rhyme (B) Synecdoche (C) Litotes (D) Metaphor

21. _____ well behind his desperate eyes.

(A) Synecdoche (B) Metonymy (C) Transferred Epithet (D) Metaphor

* **Answer the questions in five to six sentences each. (Any five)** [08]

22. Why does the poet compare the trees with 'patients' ?

23. What are the 'tokens' that the poet says he may have dropped long ago, and which the animals have kept for him ?

24. What is the central theme of the poem 'Amanda' ?

25. What are Hari Singh's reactions to the prospect of receiving an education ? Do they change over time what makes him return to Anil ?

26. How is Ausable different from other secret agents ?

27. The course of the loisel's life changed due to the necklace comment.

Section - C

* **Rectify the errors.** [04]

28. His wings will never support him.

29. So he bend his head

30. and run away back

31. To the little whole under the edge

Error

Correction

* **Fill in the blanks with proper articles, conjunction and prepositions.** [04]

(Write only the answers.)

(the, or, without, as)

Marriage gifts are meaningless _____ 32 _____ the sweet bread known as _____ 33 _____ bol,
just _____ 34 _____ a party _____ 35 _____ a feast loses its charm without bread.

* **Convert the following into indirect speech.** [03]

36. Natalya : I've noticed that those hunters argue most who know least.

Lomov : Madam, please be silent, My heart is going to pieces (shouts) shut up !

Natalya : I shan't shut up until you acknowledge that squeezer is a hundred times better than your guess!

* **Do as directed.**

37. When he finished, he went to the window to buy a stamp. (Select the correct compound sentence.)
 (A) Having finished, he went to the window to buy a stamp.
 (B) He finished and went to the window to buy a stamp.
 (C) He went to the window to buy a stamp as soon as he finished.
 (D) On finishing, he went to the window to buy a stamp.
38. The sun was now ascending the sky. (Select the correct question tag.)
 (A) The sun was now ascending the sky, didn't it ?
 (B) The sun was now ascending the sky, wasn't he ?
 (C) The sun was now ascending the sky, wasn't it ?
 (D) The sun was now ascending the sky, don't it ?
39. As soon as the class assembled, Miss Mason announced the winner.
 (Select the correct sentence using 'No sooner than')
 (A) No sooner did the class assemble than Miss Mason announced the winner.
 (B) No sooner did the class assembled than Miss Mason announced the winner.
 (C) No sooner was the class assembled than Miss Mason announced the winner.
 (D) No sooner has the class assembled than Miss Mason announced the winner.
40. There is nothing to argue about. (Select the correct affirmative sentence)
 (A) There is something to argue about.
 (B) There is anything to argue about.
 (C) There is much to argue about.
 (D) This goes without arguing / argument.
41. Otters are as common as Mosquitos is the Tigris Marshes. (Select the correct use of comparative degree)
 (A) Mosquitos is the Tigris Marshes are not more common than others.
 (B) Otters are not more common than otters in the Tigris Marshes
 (C) Mosquitos are more common than otters in the Tigris Marshes
 (D) Mosquitos in the Tigris Marshes are commoner than otters.
42. With a ping-pong ball, he invented a game of his own. (Select the correct passive voice.)
 (A) A game of his own was invented by a ping-pong ball.
 (B) A ping-pong ball was invented & a game of his own by him.
 (C) A game of his own was invented by him with a ping-pong ball.
 (D) A game of his own had been invented by him with a ping-pong ball.
43. If you stand on the seat, you may fall. (select the correct sentence removing 'if'.)
 (A) You stand on the seat, you may fall.
 (B) Unless you do not stand on the seat, you may fall.
 (C) Unless you stand on the seat, you may not fall.
 (D) You may fall unless you stand on the seat.

Section - D

44. You are Roshan / Roshani make a diary entry of your visit to your friends farmhouse. [05]
OR
44. You cleared all the rounds of Kaun Banega Crorepati on the hot seat, you got a chance to talk with Mr. Amitabh Bachchan. Write at least four dialogues that you had with him.
45. Design a poster promoting the use of jute/clothes bag and discouraging the indiscriminate use of plastic. Give a suitable title and a slogan for it. [05]
OR
45. Your father has opened a new shop of Gruh Udyog Product/Eatables. prepare an impressive advertisement for the promotion.

Section - E

46. Write a report on Selfie Mania among the youngsters. [06]
47. Write a letter to your friend making an appeal to avoid chinese fire crackers and have a safe Diwali, free of sound and air pollution. [06]
OR
47. Write an e-mail to your friend informing him/her about the newly fitted water percolation system in your society and how it saves water.
48. Write an essay in about 200 words : (Any one) [08]
- (1) **Chandrayan-2 : A mission that made India proud**
(Introduction - dream mission - contribution - how it was different from other mission ? - uniqueness - appreciation in spite of negligible failure - conclusion)
- (2) **Online shopping v/s Offline shopping**
(Introduction - availability - variety - price check - return/refund policies quality - pocket friendliness - time factor - conclusion)
- OR
48. **Complete the story and give it a suitable title :**
An engineer - interview in a multinational company - goes to cobbler - shoe polishing - tips for interview and salary - interview goes well - gets job - comes to know the real boss - awestruck.

SECTION - A

* Answer the following questions as required. (Each carry 1 marks)

[24]

Q.1 Match the following :

Section - A

Section - B

- | | |
|--------------------------|---------------|
| 1) Bhavnath fair | a) Aurangabad |
| 2) Gangotri of music | b) Regur |
| 3) Ajanta caves | c) Niger |
| 4) Black soil | d) Denmark |
| 5) Low human development | e) Samveda |
| | f) Junagadh |

Q.2 Say whether True or False.

- 6) Abhigyan Shakuntalam was the famous work of poet Bhaas.
- 7) Three poets Pampa, Ponna and Ranna are known as the trio of early Kannada Literature.
- 8) The time of Rabi crop is from October-November.
- 9) The plastic industry is also known as 'Sunrise Industries'.
- 10) In India the poorest state is Madhya Pradesh.

Q.3 Answer the following question in short.

- 11) Who has written 'Geet Govind' ?
- 12) What do you mean by 'We got valuable gift/Heritage from our ancestors / forefathers' ?
- 13) How many types of soils are there in India ?
- 14) Who is known as the father of the consumer movement ?

Q.4 Fill in the blanks.

- 15) _____ the Chinese traveler took with him 657 manuscripts from Nalanda University.
(Fahiyen, Heun Tsana, Itsingh)
- 16) In 1150 A.D. Bhaskaracharya composed the books _____.
(Lilawati Ganit, Dash Gitika, Aryabhattiyam)
- 17) _____ Temple was known as 'Black Pagoda' as it was made from Black stones.
(Brihadeshwar, Sun temple Modhera, Sun temple of Konark)
- 18) For women security call for help number Abhayam helpline number _____ has been started.
(100, 101, 181)
- 19) K.N.F. and K.N.A. are the rebel organization of _____ state. (Nagaland, Manipur, Tripura)

Q.5 Choose the correct option and write the answer.

- 20) Where do the Siddis Performing Dhamaal dance belong to ?
(A) Rajasthan (B) Andaman (C) Africa (D) Thailand
- 21) Tajmahal - Shah Jahan, then Humayun's Tomb _____
(A) Jahangir (B) Humayun (C) Hameedabegum (D) Akbar

- 22) Below are some of the details of some of the crops grown in India, the land for them, the activated areas, the climate, the peculiarities etc. Identify which one of the is not correct.
 (A) Juwar - Sandy soil, 100 cm rainfall, Andhra Pradesh, Charotar, Cash crop.
 (B) Wheat - Black loamy soil, temperate zone Rabi Crop, Punjab - Bhal Region, King of grains.
 (C) Sugarcane - Black fertile Alluvial soil, hot and humid climate, 75 to 100 cm rainfall, Uttar Pradesh, South Gujarat, Cash crop.
 (D) Jute - Fertile soils of delta region, hot and humid climate, West Bengal, Assam, cash crop.
- 23) Which Indian city is Popularly known as 'Silicon Valley' ?
 (A) Delhi (B) Bengaluru (C) Jaipur (D) Nagpur
- 24) Untouchability has been abolished under which article of the constitution ?
 (A) Article-25 (B) Article-29 (C) Article-17 (D) Article-46

SECTION - B

- Q.6 Answer the following question. (Any 9) (Each carry 2 marks) [18]**
- 25) "India is a land of ancient culture." - Explain the statement.
- 26) Did the people of Austroracial tribe have made invaluable contributions to the development of Indian culture and civilization ?
- 27) Describe the contribution of ancient Gujarati literature in the literary heritage of India.
- 28) How many Vedas are there in Indian ancient literature ? Name them.
- 29) State the measures to Prevent soil erosion.
- 30) Briefly explain the tiger project.
- 31) According to Administration which are the types of forests. Explain briefly.
- 32) State the benefits / importance of multi-purpose projects schemes.
- 33) India's Jute industry is facing many problems in the future - on what basis can you say so ?
- 34) State the measures to prevent environmental pollution/degradation ?
- 35) Write the causes of poverty and describe any three of its characteristics.
- 36) Identify the pictures below and write their full names.



SECTION - C

- Q.7 Answer the following question. (Any 6) (Each carry 3 marks) [18]**
- 37) "There is no such scripture, no such teaching, no such knowledge, no such deed." State the art to which this statement is attached.
- 38) Write a short on the temples of Khajuraho.
- 39) Make a list of cultural heritage sites in Gujarat.
- 40) Write the difference between a sanctuary and national park.

41) State the main objectives of rainwater harvesting.

42) Write the reasons for the Rise of Poverty.

43) Write a note about the world labor market.

44) Answer the following questions from the given table :

Classification of countries on the basis of Human development index as per Human Development Report

Sr.	Countries with Human Development	Division Order	H.D.Index	Main Countries
1.	Highest Human Development	1 to 49	above 0.802	Norway, Australia, Switzerland, Denmark, Netherlands, America, Singapore, Britain, Japan, France
2.	High Human Development	50 to 105	0.700 to 0.798	Russia, Malaysia, Iran, Srilanka, Mexico, Brazil, China, Thailand, Jamaica
3.	Medium Human Development	106 to 143	0.555 to 0.698	Indonesia, Phillippines, South Africa, Iraq, India
4.	Low Human Development	144 to 188	below 0.550	Kenya, Pakistan, Nigeria, Zimbabwe, Niger

Questions :

(1) Which is the first country with the highest human development Index ?

(2) India is included in the group of countries with which human development Index ?

(3) What is the HDI for high human development ?

45) Write about various schemes of Gujarat government to give equality to women.

SECTION - D

Q.8 Answer any four of the 46 to 51 questions below and question-52 Map is compulsory. (Each carry 4 marks)

[20]

46) Write a detailed answer about astronomy and astrology of ancient India.

47) Write a short note about the technical improvements made in the field of agriculture.

48) Discuss agricultural crops categorized in India in terms of seasons.

49) Give a detailed explanation of what are the duties of a customer.

50) Write about the ancient discoveries "The global affairs are carried put by mathematics."

51) Terrorism is a global Problem. Write about it.

52) Show the following details with correct signs and symbols in the outlined map of India given to you.

(1) Desert soil (Sandy Soil Region)

(2) Gir National Park

(3) Sugarcane producing state - Uttar Pradesh

(4) Center for production of chemical fertilizers industries

SECTION - A

* Answer the following questions as required. (Each carry 1 marks)

[24]

Q.1 Match the following :

Section - A

Section - B

- | | |
|--------------------------------------|-------------------------------|
| 1) Kalidas | a) 0.944 |
| 2) Sushant Samhita | b) Laterite soil |
| 3) Non-renewable resource | c) Instrument used in surgery |
| 4) Norway | d) Meghdoot |
| 5) Ragi, Cashaw, tea, coffee, cotton | e) Coal |
| | f) Bauxite |

Q.2 Say whether True or False.

- 6) Sanskrit literature of India has a fine blend of religious and worldly aspects of life.
- 7) Astrology and astronomy involves calculations based on the positions and movements of the celestial objects in the sky.
- 8) The sun Temple of Modhera in Mehsana district is also well-known as 'The Black Pagoda'.
- 9) Early man used minerals as the resources that were buried within the land.
- 10) Hot and Humid coastal climate and Saline land are the favourable condition for cultivation of coconut.

Q.3 Answer the following question in short.

- 11) Give three examples of monuments which are part of cultural heritage of Gujarat.
- 12) Which are the three most important texts on music which were created in ancient India ?
- 13) Name any three texts written by Kalidas.
- 14) State the division of people on the basis of varna system.

Q.4 Fill in the blanks.

- 15) _____, who is considered one of the greatest travelers, visited Nalanda University in 7th Century.
- 16) _____ is the tallest minaret of India.
- 17) ICAR is the abbreviation for _____.
- 18) _____ was the first Indian to talk about consumer protection in India.
- 19) _____ has been started by government of Gujarat to provide nutritional food to adolescent girls to develop their skills.

Q.5 Choose the correct option and write the answer.

- 20) Who was the originator of dance ?
(A) Shiva-Nataraj (B) Narad (C) Vishnu (D) Brahma
- 21) Which of the following cities is called 'Cotton polis of India' for cotton textiles ?
(A) Indore (B) Mumbai (C) Ahmedabad (D) Nagpur
- 22) Which is the biggest challenge before the world ?
(A) Increase in populations (B) Poverty in the developing countries
(C) Terrorism (D) Inter-state border disputes.
- 23) Which place does India hold in the export of jute in the world ?
(A) second (B) first (C) third (D) none
- 24) Who finalizes the schedules under Article 341 and 342 ?
(A) Prime Minister (B) President (C) Governor (D) Vice President

SECTION - B

Q.6 Answer the following question. (Any 9) (Each carry 2 marks)

[18]

- 25) Write about India in terms of culture.
- 26) Why do we respect the rivers by calling them 'Lokmata' ?
- 27) Write in brief about Amir Khusro.
- 28) Give information about the development of literature during the reign of Akbar - The Mughal King.
- 29) How many types of soil are there in India and which are they ?
- 30) Mention four impact of deforestation.
- 31) Mention four-five reasons for the destruction of wildlife ?
- 32) Mention the remedies for conservation of water resources.
- 33) Give information on Sugar industry which stands second after textiles in agrarian industries in India.
- 34) Give information on Industrial pollution.
- 35) "The poor live in wealthy India." Explain the statement.
- 36) Which institution has the logo given below :



SECTION - C

Q.7 Answer the following question. (Any 6) (Each carry 3 marks)

[18]

- 37) Write about Garba and Garbi in Gujarat.
- 38) Write short note : Red fort of Delhi.
- 39) Write a note on Pilgrimage place in India.
- 40) State the diversities about the animals living in the Indian forest.
- 41) What is mean by multi-purpose project ? State its objectives.
- 42) Explain how 'proper planning of manpower' would be proved best if India wants to reduce unemployment.
- 43) Write on any four agricultural programmes announced by Indian government under the strategy for poverty eradication in India.
- 44) What is women empowerment ? What are the obstacles in its path ?
- 45) What should be done in India to reach the highest human development category according to Human Development Index ?

SECTION - D

Q.8 Answer any four of the 46 to 51 questions below and question-52 Map is compulsory. (Each carry 4 marks)

[20]

- 46) Write a note on discoveries made by Aryabhatta in Mathematics.
- 47) Which are favourable conditions for wheat ? Name the important states or regions of having its noticeable production ?
- 48) Give difference between Kharif crop and Rabi crop.
- 49) "The necessity to control price has arose" Explain.
- 50) Give an account of the achievements in Medical science and surgery in ancient India.
- 51) State the economic effect of terrorism.
- 52) On an outline map of India, label with suitable symbols at a suitable place :
 - (1) Red soil
 - (2) Kaziranga National Park
 - (3) One state producing wheat - Punjab
 - (4) One Centre producing woollen clothes - with name

SECTION - A

* Answer the following questions as required. (Each carry 1 marks)

[24]

Q.1 Match the following :

Section - A

- 1) Australoids
- 2) Uttar Ramcharit
- 3) Dholaveera
- 4) Forest type of soil
- 5) United Nation Development Programme

Section - B

- a) Khadir Bet
- b) UNDP
- c) Bhavbhuti
- d) Tulsidas
- e) Nishad
- f) Coniferous forests in Himalayas

Q.2 Say whether True or False.

- 6) Abul fazal is known as 'Tooti-e-Hind'.
- 7) Ramayana is the world's largest epic.
- 8) Paddy and maize both are Kharif and zaid crops.
- 9) Three types of silk are produced in India.
- 10) Unemployment rises due to poverty.

Q.3 Answer the following question in short.

- 11) By which name were the Arya People known ?
- 12) Which book did Raja Krishnadevraya, the great king of Vijaynagar write ?
- 13) What is mixed in red soil ?
- 14) Where is the headquarters of ISO situated ?

Q.4 Fill in the blanks with the correct option from these given in the baskets.

- 15) Deep philosophical principles have been expounded in the _____.
(Shrimad Bhagwad Gita, Ramayana, Mahabharata)
- 16) _____ was a great astrologer and astronomer. (Maharshi Patanjali, Vatsayayan, Varahmihir)
- 17) Qutub Minar located at Delhi is an excellent example of _____ architecture.
(Medieval, Sultanate, Mughal)
- 18) United Nations had declared 1975-1985 decade as _____.
(women development, women power, women's decade)
- 19) _____ factor is taken into consideration for listing in the 'scheduled castes'.
(Untouchability, Religion, Sect)

Q.5 Choose the correct option and write the answer.

- 20) In which art form is the combination of all art forms ?
(A) Music (B) Drama (C) Drawing (D) Dance
- 21) What is the term used for the groups enlisted under Article 342 ?
(A) OBC (B) Scheduled Tribes (C) Scheduled castes (D) Minorities
- 22) Which of the following pairs is false ?
(A) Jowar, millet - Dry farming (B) Tea, coffee - Subsistence farming
(C) Paddy, sugarcane - Wet farming (D) Rubber, cocoa - Plantation crops
- 23) Which place does India hold in the export of Jute in the world ?
(A) second (B) first (C) third (D) none
- 24) Who finalizes the schedules under Article 341 and 342 ?
(A) Prime Minister (B) President (C) Governor (D) Vice President

SECTION - B

Q.6 Answer the following question. (Any 9) (Each carry 2 marks)

[18]

- 25) "There is intimate relationship between our cultural and natural heritage." Discuss.
- 26) Name the place of pilgrimage and religious significance in Gujarat.
- 27) Give information about Varanasi-Kashi university.
- 28) Write about the ancient Tamil literature.
- 29) State the remedies for soil conservation.
- 30) State any four remedies for conservation of wild animals.
- 31) In which wetland regions of India do the migratory birds come to spend the winter ?
- 32) Agriculture in south India is done through ponds. Why ?
- 33) Give information about the silk textile industry.
- 34) Give a brief account of the copper smelting industry of India.
- 35) What is industrial unemployment ?
- 36) Which institution has the following logo ?



SECTION - C

Q.7 Answer the following question. (Any 6) (Each carry 3 marks)

[18]

- 37) "Leather work is a very old art in India." Discuss.
- 38) Where is Humayun's tomb situated ? Give information about it in brief.
- 39) Write about the art of architecture at Hampi.
- 40) Write a note on types of forests.
- 41) (1) How many methods of irrigation are there ? Which are they ?
(2) What is the importance of Rain as water resource ?
- 42) Write a brief note on any four types of unemployment ?
- 43) What is poverty line ? How is poverty measured ?
- 44) What are the challenges of Human Development and explain any one.
- 45) Which are the things of human life with which human development is related ?

SECTION - D

Q.8 Answer any four of the 46 to 51 questions below and question-52 Map is compulsory. (Each carry 4 marks)

[20]

- 46) State the importance of science and technology ?
- 47) Which conditions are favourable for sugarcane cultivation ? State the names of states of regions of India making its noticeable production.
- 48) For which reasons adequate development in agricultural field is not achieved in India ?
- 49) "Consumers are exploited in different ways." Explain.
- 50) Give information about the Indian culture.
- 51) Suggest the steps to eradicate communalism.
- 52) On an outline map of India, mark the following with suitable symbols at a suitable place :
 - (1) Laterite soil
 - (2) Bird Sanctuary - Nal Sarovar (Ex. Q. Chandraprabha Sanctuary)
 - (3) A State Producing Coffee - Karnataka
 - (4) One Centre producing sugar - with name

Out of 133 students preparing - **NEET...**



Joshi Soham

Marks
644
(Out of 720)

Obtaining **600** Marks or more **02** Students

Obtaining **500** Marks or more **06** Students

Obtaining **450** Marks or more **15** Students

Obtaining **400** Marks or more **23** Students

Only preparation at school **Without Any Coaching**

I.I.T. TOPPERS



I.I.T. - 2017

Ladani Harsh

I.I.T. - Madras
(Aero Space Engineering)

JEE MAIN - 240 / 360

Year : 2015



Bhalodi Yash

I.I.T. - Madras
(Computer Sci.-B. Tech)

Year : 2015



SHYARA PARTH
I.I.T.-Varanasi
(Electronics Eng.)

Year : 2008



Monpara Geeta
I.I.T. Rank : 2414
Admission : I.I.T.-Mumbai

Year : 2006



Nandoriya Ajay
I.I.T. Rank : 5836
A.I.E.E.E. Rank : 7823

Year : 2006



Chudasama Dhaval
I.I.T. Rank : 449
Admission : I.I.T.-Khadakpur

Group A

1



First in the School

Chauhan Priya

Sci. PR
99.84

PR
99.58

Sci. Grade **A1**

Over All Grade **A2**

Second in the School

Joshi Soham

Theory PR
99.79

Sci. PR
99.56

Sci. Grade **A2**

Over All Grade **A2**

Group B

2



Third in the School

Group B

3



Donga Darshin

PR **99.69** Sci. PR **99.61**

Sci. Grade **A2** Over All Grade **A2**

Forth in the School

E.M.

Group A

4



MALAVIYA DHUVIL

Theory PR **99.67** PR **99.66**

Sci. Grade **A2** Over All Grade **A1**

Forth in the School

Group A

4



Mokariya Jaydip

Sci. PR **99.67** Theory PR **99.27**

Sci. Grade **A1** Over All Grade **A2**

Board | STD.12 | 2019

RESULT AT A GLANCE

SCIENCE PR and OVER ALL PR

The students Getting **99** PR or More **16**

The students Getting **98** PR or More **41**

The students Getting **95** PR or More **94**

The students Getting **90** PR or More **153**

The students Getting **80** PR or More **255**

GUJ-CET

The students Getting **95** PR or More

75

The students Getting **90** PR or More

145

JEE-MAIN

The Students QUALIFIED
For JEE - ADVANCED

66

Subjective Board TOP 10
71 Students

Result of Board **71.90%**

Result of Rajkot **84.47%**

Result of SOS **91.99%**

Group A

1


Second in the Board

Patel Utsav

**PR
99.98**
**Sci. PR
99.93**
**Sci. Grade A1
Over All Grade A1**

Fifth in the Board

Group A

2

**Sci. Grade A1
Over All Grade A1**
**PR
99.95**
**Theory PR
99.95**

Patel Bhoomi

Group B

3


Eleventh in the Board

Karangiya Mital

**Theory PR
99.89**
**PR
99.87**
**Sci. Grade A2
Over All Grade A2**

Eleventh in the Board

Group B

3

**Sci. Grade A1
Over All Grade A2**
**Sci. PR
99.89**
**Theory PR
99.71**

Gojiya Rahul

Board | STD.12 | 2019

RESULT AT A GLANCE

SCIENCE PR and OVER ALL PR

 The students Getting **99** PR or More **21**

 The students Getting **98** PR or More **37**

 The students Getting **95** PR or More **86**

 The students Getting **90** PR or More **122**

 The students Getting **80** PR or More **228**

GUJ-CET

 The students Getting **95** PR or More **55**
 The students Getting **90** PR or More **108**

JEE-MAIN

 The Students QUALIFIED
For JEE - ADVANCED

60

 Subjective Board TOP 10
69 Students

 Result of Board **72.99%**

 Result of Rajkot **85.03%**
Result of SOS 90.67%

2016**Second in the Board**

1 Ram Kishan
117.50 / 120
PR 99.98

Sixth in the Board

2 Kathrotiya Harshal
116.25 / 120
PR 99.94

Sixth in the Board

3 Chauhan Sanket
116.25 / 120
PR 99.94

The students Getting 90 PR or more
73 Students

2015**Tenth in the Board**

1 Ramoliya Dhruvil
116.25 / 120
PR 99.90

Sixth in the Board

2 Dangar Neha
116.25 / 120
PR 99.90

3 Vakatar Dharshi
115 / 120
PR 99.81

The students Getting 90 PR or more
71 Students

2014**Third in the Board**

1 Joshi Sukhdev
117.50 / 120
PR 99.97

2 Aasodariya Ronak
111.75 / 120
PR 99.47

3 Rathod Viraj
111.50 / 120
PR 99.45

The students Getting 90 PR or more
69 Students

2013

1 Savaliya Nikunj
PR 99.58
106.5 / 120

2 Ghodasara Raj
PR 99.56
106.5 / 120

3 Lakhani Swati
PR 99.14
102.75 / 120

The students Getting 90 PR or more
40 Students

2012**Subject First in GUJ-CET**

4 Upadhyay Himani
PR. 99.70
Biology 40/40

Subject First in GUJ-CET

5 Nagani Savfina
Biology 40/40

The students Getting 90 PR or more
94 Students

1 Shukal Ronak
PR. 99.83

2 Chitroda Bhakti
PR. 99.80

3 Raiyani Chintan
PR. 99.70

GUJ-CET 2019



Group B

Ninth in the Board

Joshi Soham

Marks

109 / 120

PR

99.91

The students Getting **99** PR or more **011** Students

The students Getting **98** PR or more **029** Students

The students Getting **95** PR or more **075** Students

The students Getting **90** PR or more **145** Students

GUJ-CET 2018



Group B

Sixth in the Board

Gojiya Rahul

Marks

112.5 / 120

PR

99.94

The students Getting **99** PR or more **010** Students

The students Getting **98** PR or more **025** Students

The students Getting **95** PR or more **055** Students

The students Getting **90** PR or more **108** Students

GUJ-CET 2017



Group A

First in the Board

Ladani Harsh

Marks

113.75 / 120

PR

99.99

The students Getting **99** PR or more **018** Students

The students Getting **98** PR or more **034** Students

The students Getting **95** PR or more **069** Students

The students Getting **90** PR or more **130** Students

SOS - Khambhala



SOS - Khambhala



SOS - Khambhala Boys Hostel



SOS - Khambhala Campus

SOS - Rajkot



SOS - Rajkot



Staywell Girls Hostel - Rajkot



Best Science School in Saurashtra Award

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Students who get admission in Science will be given in the SOS School's own online application free called "The School of Science-SOS", in which lectures of our teachers of Std. 11th and 12th (Science) can be seen sitting at home. Students will be able to revise and understand many topics or chapters that are not understood or seem difficult in the class, through the SOS Application will be able to revise the entire course as per their desire and give examination (test series) of any chapter at home. Students will also be able to attend several exams of the complete test series of NEET and JEE in this application. The annual fee for this application is Rs.15,000/- but students seeking admission in SOS will be given application, school bag and Std.11th-12th materials free of charge. In addition, Students who attend our entrance test will also be given scholarship according to merit.

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