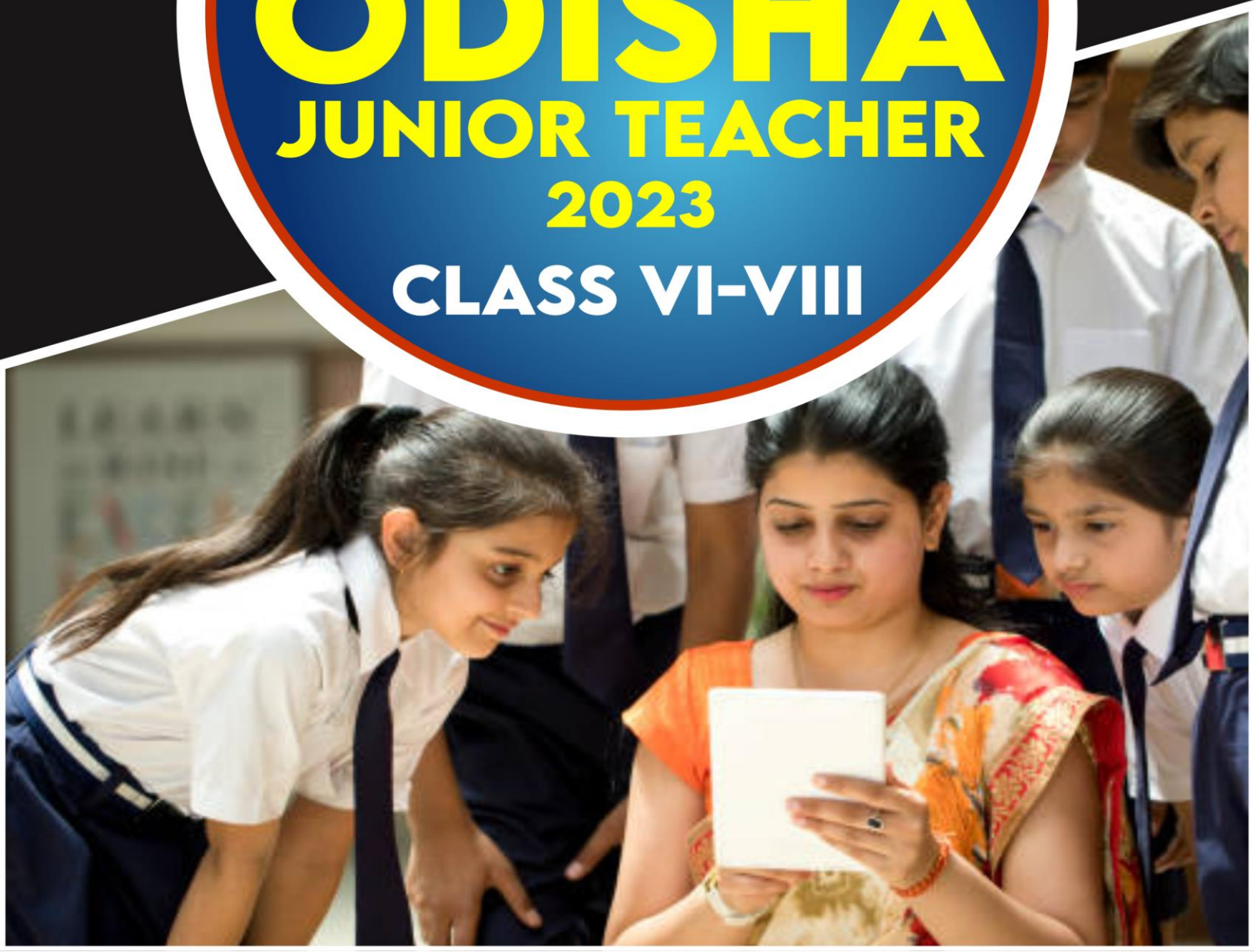


Adda247

*Decoding*  
**ODISHA**  
**JUNIOR TEACHER**  
**2023**  
**CLASS VI-VIII**



## Odisha Junior Teacher 2023 (Class 6 to 8) Sample Paper With Detailed Solution

### ENGLISH

**Directions (1-5):** Read the following passage carefully and choose the most appropriate answer to the question out of the four alternatives.

The Bengal Renaissance refers to a social reform movement during the nineteenth and early twentieth centuries in the region of Bengal in Undivided India during the period of British rule. The Bengal Renaissance can be said to have started with Raja Ram Mohan Roy (1775-1833) and ended with Rabindranath Tagore (1861-1941) although there have been many stalwarts thereafter embodying particular aspects of the unique intellectual and creative output. Nineteenth-century Bengal was a unique blend of religious and social reformers, scholars, literary giants, journalists, patriotic orators, and scientists all merging to form the image of a renaissance and marked the transition from the medieval to the modern. During this period Bengal witnessed an intellectual awakening that is in some way similar to the European Renaissance during the 16th century although Europeans of that age were not confronted with the challenge and Influence of alien colonialism. This movement questioned existing orthodoxies, particularly with respect to women's marriage, the dowry system, the caste system, and religion. One of the earliest social movements that emerged during this time was the Young Bengal movement which espoused rationalism and atheism as the common denominators of civil conduct among upper-caste-educated Hindus. The parallel socio-religious movement, the Brahmo Samaj developed during this time period and counted many of the leaders of the Bengal Renaissance among its followers.

**Q1.** Find the option that is opposite in meaning to the alien.

- (a) disputable
- (b) indigenious
- (c) unethical
- (d) unscientific

**Q2.** The Bengal Renaissance was different from the 16<sup>th</sup>-century European Renaissance because

- (a) Europeans did not have the dowry system.
- (b) Raja Rammohan Roy and Tagore were not born in the 16th century.
- (c) The Bengal Renaissance was an essentially Hindu Movement.
- (d) Unlike the Bengalis, Europeans were not under foreign rule.

**Q3.** The spirit of Renaissance

- (a) is to embrace atheism.
- (b) is to get inspiration from Western-intellectual thought.
- (c) lies in breaking all shackles of backwardness and narrow-mindedness.
- (d) is essentially scientific

**Q4.** The Bengal Renaissance movement

- (a) wanted to overthrow colonialism.
- (b) wanted to propagate Brahmoism.
- (c) wanted social reform to improve the lot of the weak and the downtrodden.
- (d) None of the above.

**Q5.** The Bengal Renaissance gathered momentum in the 19th century because

- (a) the British had colonized India.
- (b) there was an abundance of intellectual and creative activities in Bengal then.
- (c) the Brahmo Samai was formed.
- (d) Raja Rammohan Roy and Tagore lived at that time.

**Direction: (6-7)** In the following questions, out of the four alternatives, choose the one which best expresses the meaning of the given word.

**Q6.** UPFRONT

- (a) Dissembling
- (b) Ingenuous
- (c) Equivocal
- (d) Ambiguous



**Q7. REDUNDANCY**

- (a) Absence
- (b) Dearth
- (c) Paucity
- (d) Excess

**Directions: (8-9) In the following questions, out of the four alternatives, choose the word which is opposite in meaning to the given word and click the button corresponding to it.**

**Q8. COSSET**

- (a) Ignore
- (b) Close
- (c) Caress
- (d) Fondle

**Q9. HOLLOW**

- (a) Alveolate
- (b) Cleft
- (c) Cavernous
- (d) Solid

**DIRECTIONS (10-11): Choose correct types of sentences -**

Which of the following is a declarative sentence?

- (a) Would you like to go to the movies?
- (b) Don't forget to take out the trash.
- (c) The sun is shining brightly today.
- (d) How much money did you spend on groceries?

**Q11. Which of the following is a complex sentence?**

- (a) The book is on the table.
- (b) She played soccer, and then she went swimming.
- (c) After she finished her homework, she went to bed.
- (d) He likes pizza, but he doesn't like mushrooms.

**Q12. Fill in the blank with the correct option.**

\_\_\_\_\_, I was able to attend the wedding.

- (a) Instantly
- (b) Luckily
- (c) Suddenly
- (d) Beautifully

**Q13. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.**

We had (A)/ lot of difficulties (B)/ in finding the way here. (C)/ No error (D)

- (a) A
- (b) B
- (c) C
- (d) D

**Q14. Select the synonym of the given word.****REQUISITE**

- (a) dominant
- (b) dynamic
- (c) critical
- (d) obligatory

**Q15. Select the most appropriate Antonym of the given words.****Zenith**

- (a) Nadir
- (b) Shallow
- (c) Peculiar
- (d) Low

**G.K. AND C.A.****Q16. Who were the winners of the Pulitzer Prize 2023 in the fiction category?**

- (a) Barbara Kingsolver and Hernan Diaz
- (b) Hua Hsu
- (c) Sanaz Toossi
- (d) Beverly Gage

**Q17. What is the theme of the 42nd Summit of the Association of Southeast Asian Nations (ASEAN) held in Indonesia in 2023?**

- (a) ASEAN Affairs: Epicenter of Growth
- (b) ASEAN: A Journey of Unity
- (c) Embracing Diversity: ASEAN's Strength
- (d) ASEAN: Building Bridges for Prosperity

**Q18. Who has been named as the ICC Women's Player of the Month for April 2023?**

- (a) Fakhar Zaman
- (b) Sidra Ameen
- (c) Naruamol Chaiwai
- (d) None of the above

**Q19. Who has been named the Sportsman of the Year at the 2023 Laureus World Sports Awards?**

- (a) Lionel Messi
- (b) Ronaldo
- (c) David Beckham
- (d) Mbappe

**Q20. What is SAKSHAM, recently launched by Rajesh Bhushan, the Union Health Secretary?**

- (a) A Learning Management Information System (LMIS)
- (b) A healthcare management platform
- (c) A medical research project
- (d) A health awareness campaign



**Q21.** Which is called the "Lake District of India"?

- (a) Nainital
- (b) Shimla
- (c) Gangtok
- (d) Matheran

**Q22.** Which sanctuary in India is famous for Rhinoceros and in which state is it located?

- (a) Gir, Gujarat
- (b) Kaziranga, Assam
- (c) Ranthambore, Rajasthan
- (d) Corbett, Uttarakhand

**Q23.** Which part of the brain plays an important role in motor control?

- (a) Cerebellum
- (b) Cerebrum
- (c) Medulla
- (d) Pons

**Q24.** Which of the following large states has 100% of villages achieving ODF Plus status under the Swachh Bharat Mission Gramin (SBM-G) Phase II?

- (a) Uttar Pradesh
- (b) Tamil Nadu
- (c) Karnataka
- (d) Telangana

**Q25.** When is National Technology Day observed in India?

- (a) May 11
- (b) June 11
- (c) July 11
- (d) August 11

**Q26.** Which two organizations have collaborated to launch a new geospatial foundation model?

- (a) Microsoft and SpaceX
- (b) Google and ISRO
- (c) IBM and NASA
- (d) Amazon and ESA

**Q27.** What is 'Harit Sagar' launched recently ?

- (a) A new port
- (b) A set of guidelines for sustainable port practices
- (c) A campaign to reduce carbon emissions in the infrastructural industry
- (d) A program for waste management in ports

**Q28.** What is the objective of the campaign "Poshan Bhi Padhai Bhi" launched by the Union Ministry of WCD?

- (a) Promoting women empowerment in rural areas
- (b) Ensuring high-quality preschool network in India
- (c) Enhancing maternal healthcare services
- (d) Providing vocational training to adolescents

**Q29.** When is National Technology Day observed in India?

- (a) May 11
- (b) June 11
- (c) July 11
- (d) August 11

**Q30.** Which state in India has become the first to implement the 'right to walk' by making it mandatory for road-owning agencies to provide footpaths and cycle tracks in all future road expansions and construction?

- (a) Maharashtra
- (b) Punjab
- (c) Karnataka
- (d) Gujarat

## REASONING

**Q31.** In the following question, select the related word pair from the given alternatives.

Room : House :: ? : ?

- (a) Pedal : Rotate
- (b) Student : Study
- (c) Car : Steering
- (d) Needle : Clock

**Q32.** In the following question, select the odd word from the given alternatives.

- (a) Tiger
- (b) Ostrich
- (c) Dog
- (d) Elephant

**Q33.** In the following question, select the missing number from the given series. 93, 100, 107, 114, ?, 128

- (a) 120
- (b) 121
- (c) 123
- (d) 122

**Q34.** If  $13\Delta 3@19 = 20$ ,  $12\Delta 7@74 = 10$  and  $12\Delta 5@46 = 14$ , then find the value of  $16\Delta 2@4 = ?$

- (a) 14
- (b) 4
- (c) 28
- (d) 8

**Q35.** In the following question, select the odd letter/letters from the given alternatives.

- (a) JKL
- (b) EGI
- (c) OQS
- (d) KMO

**Q36.** In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

- (a) (10, 20, 30)
- (b) (12, 22, 32)
- (c) (27, 37, 47)
- (d) (19, 29, 49)

**Q37.** A starts from his home. He pushes his cycle 1 km East, then he turns North and walks 4 km, then he turns West and walks 9 km, then he turns to his left and walks 4 km. Where is he with respect to his home?

- (a) 8 km West
- (b) 10 km West
- (c) 8 km East
- (d) 10 km East

**Q38.** Statement:

All Aroma is good

Some good is bad

Conclusions

I. All aroma is bad

II. Some Aroma is good

- (a) only condition I follow
- (b) only Condition II follow
- (c) neither I nor II follow
- (d) both the conclusions follow

**Q39.** In a class, there are six boys F is tables and these boys are tables than E, but shorter than B, C is not tables than A, Who is shorter than D. who among these is second shortest?

- (a) C
- (b) D
- (c) A
- (d) B

**Q40.** Pointing to a woman, a man said, "The sister of her mother's husband is my aunt" How is he related to that women?

- (a) Nephew
- (b) father
- (c) Uncle
- (d) Brother

**Directions (41-43):** There are six children playing football namely G, H, I, J, K and L. G and K are brothers.

L is the only sister of K. I is the only son of G's uncle. H and J are the daughters of the brother of I's father.

**Q41.** How is J related to G?

- (a) Sister
- (b) Niece
- (c) Cousin
- (d) Uncle

**Q42.** How is I related to L?

- (a) Cousin
- (b) Son
- (c) Uncle
- (d) Brother

**Q43.** How many male players are there?

- (a) One
- (b) Three
- (c) Four
- (d) Five

**Q44.** Select the odd word from the given alternative?

- (a) Daman
- (b) Kavaratti
- (c) Port Blair
- (d) Andaman and Nicobar

**Q45.** If 'A' stands for 'x', B stands for '+', 'C' stands for '+', 'D' stands for '-', then what is the value of

(8 A 3) B 4 C 3 D 11

- (a) -11
- (b) -4
- (c) -2
- (d) -3

## COMPUTER

**Q46.** Which type of computer is primarily used by the government for data processing and administrative tasks?

- (a) Mainframe computer
- (b) Personal computer
- (c) Supercomputer
- (d) Tablet computer

**Q47.** Which generation of computers used vacuum tubes as a primary electronic component?

- (a) First generation
- (b) Second generation
- (c) Third generation
- (d) Fourth generation

**Q48.** What does the abbreviation "URL" stand for?

- (a) Uniform Resource Locator
- (b) Universal Resource Locator
- (c) Unique Resource Locator
- (d) Unidentified Resource Locator

**Q49.** Choose the correct option

Assertion: Browsers are the only software that can access the internet.

Reason: Browsers are specifically designed to access and display webpages on the internet.

Options:

- (a) Both Assertion and Reason are true, and the Reason is the correct explanation for the Assertion.  
 (b) Both Assertion and Reason are true, but the Reason is not the correct explanation for the Assertion.  
 (c) Assertion is true, but the Reason is false.  
 (d) Assertion is false, but the Reason is true.

**Q50.** Choose the correct option

Assertion: An intranet is a private network that is restricted to an organization or company.

Reason: An intranet can be accessed using the internet.

Options:

- (a) Both Assertion and Reason are true, and the Reason is the correct explanation for the Assertion.  
 (b) Both Assertion and Reason are true, but the Reason is not the correct explanation for the Assertion.  
 (c) Assertion is true, but the Reason is false.  
 (d) Assertion is false, but the Reason is true.

**Q51.** Choose the correct statement(s) regarding email etiquette in ICT:

Statement 1: It is important to use a clear and concise subject line in an email.

Statement 2: It is appropriate to use informal language and abbreviations in business emails.

Statement 3: It is important to proofread an email before sending it to avoid typos and errors.

Options:

- (a) Statement 1 only  
 (b) Statement 1 and 2  
 (c) Statement 1 and 3  
 (d) All of the above

**Q52.** Which digital initiative launched by the Government of India aims to provide online marketing to women?

- (a) SWAYAM  
 (b) e-Shiksha  
 (c) Swayam Prabha  
 (d) Mahila-E-Haat

**Q53.** What is the objective of the National Digital Library of India initiative launched by the Government of India in ICT?

- (a) To provide free internet services to students in rural areas  
 (b) To digitize and preserve the cultural heritage of India  
 (c) To promote the use of digital technologies in classroom teaching  
 (d) To establish new universities in underdeveloped regions

**Q54.** Which generation of computers used integrated circuits (ICs) as a primary electronic component?

- (a) First generation  
 (b) Second generation  
 (c) Third generation  
 (d) Fourth generation

**Q55.** Which of the following memory devices has the highest access speed?

- (a) Hard disk drive (HDD)  
 (b) Solid-state drive (SSD)  
 (c) CD-ROM  
 (d) USB flash drive

**Q56.** ISDN stands for\_\_\_\_\_.

- (a) Integrated Services Digital Network  
 (b) Integrated Services Data Network  
 (c) Integrated Security Digital Network  
 (d) Integrated Security Data Network

**Q57.**\_\_\_\_\_ is also known as inkless printer.

- (a) Thermal printer  
 (b) Inkjet printer  
 (c) OCR  
 (d) Dot Matrix printer

**Q58.**How many layers are there in the TCP/IP protocol suite?

- (a) 5  
 (b) 6  
 (c) 7  
 (d) 4

**Q59.**Which of the following is a translator program used for assembly language?

- (a) Compiler  
 (b) Interpreter  
 (c) Translation  
 (d) Assembler

**Q60.**Who among the following is known as the Father of The Internet?

- (a) Tim Berners-Lee  
 (b) Raymond Tomilson  
 (c) Douglas Englebart  
 (d) Vint Cerf

**Q61.** As per National Education Policy 2020, the assessment of learners should include the progress as well as the uniqueness of learners in-

- (a) cognitive, social, spiritual domains.  
 (b) cognitive, physical domains.  
 (c) cognitive, affective, psychomotor domains,  
 (d) physical, physiological, psychological domains.

**Q62.** Instead of limiting classroom learning to textbooks, National Education Policy 2020 suggests that learning and education should be-

- (a) based on rote memorization of facts and knowledge.  
 (b) based on increasing students' content every 3 months.  
 (c) focused on inquiry and the development of critical thinking.  
 (d) focused on learning for exams.

**Q63.** Choose the correct one in accordance with the RTE. The curricular and evaluation process should:

- (a) Make the child free from fear, trauma and anxiety
- (b) Be child centered and provide learning activities
- (c) Medium of instruction has to be in the mother tongue, as far as possible
- (d) All of the above

**Q64.** The government of India enacted the Right of children to free and compulsory education act in the year:

- (a) 2006
- (b) 2007
- (c) 2008
- (d) 2009

**Q65.** What type of supervision supports the transformation of teaching-learning processes?

- (a) academic
- (b) school
- (c) society
- (d) family

**Q66.** What is the term for the process of planning and reviewing attitudes?

- (a) school learning
- (b) leadership learning
- (c) teaching-learning
- (d) none of these

**Q67.** Project – based and play – based approaches in learning:

- (a) improves children's engagement and motivation.
- (b) hampers children's ability to be self – directed.
- (c) increases behavioral issues.
- (d) hampers children's creativity.

**Q68.** Which of the following is a primary agency of socialisation for children?

- (a) School
- (b) Religion
- (c) Family
- (d) Community

**Q69.** Two glasses hold the same amount of water yet Anu thinks that the taller glass holds more water than the 'wider but shorter' glass. According to Jean Piaget, this reasoning of Anu is due to-

- (a) Centration
- (b) Seriation
- (c) Conservation
- (d) Maturation

**Q70.** Reversibility - the ability to reverse actions is a basic accomplishment of which stage as given in the Piagetian theory of Cognitive development?

- (a) Sensorimotor
- (b) Pre operational
- (c) Concrete Operational
- (d) Formal Operational

**Q71.** Development of children proceeds from \_\_\_\_\_ to \_\_\_\_\_

- (a) abstract; concrete
- (b) general; specific
- (c) toe; head.
- (d) extremities; center.

**Q72.** Assertion A: Children from high income families spend their day very differently than children from low income families.

Reason R: Childhood is not universal and there is a lot of diversity of childhoods.

Choose the correct option.

- (a) Both A and R are true and R is the correct explanation of A.
- (b) Both A and R are true but R is not the correct explanation of A.
- (c) A is true and R is false
- (d) Both A and R are false

**Q73.** A child learns to grasp large things (such as a ball) with hands before learning to pick up a pea using pincer grasp. Which principle of development does this illustrate?

- (a) Cephalocaudal
- (b) Proximodistal
- (c) Equilibration
- (d) Conservation

**Q74.** Assertion A: Children learn knowledge, skills, values, customs of the society by their parents only.

Reason R: socialization of children is a simple and linear process.

Choose the correct option.

- (a) Both A and R are true and R is the correct explanation of A.
- (b) Both A and R are true but R is not the correct explanation of A.
- (c) A is true and R is false
- (d) Both A and R are false

**Q75.** Children in..... stage understand object permanence but do not realize that actions can be reversed and their judgments are based on immediate appearance of things.

- (a) Sensori-motor
- (b) Pre- operational
- (c) Concrete operational
- (d) Formal operational

## MATHEMATICS

**Q76.** How many hundreds are there in 2534?

- (a) 300
- (b) 253
- (c) 2534
- (d) 25300

**Q77.** I am a 2- digit odd number and greater than  $24 \times 4$ .

My ones and tens digits are equal.

What number am I?

- (a) 87
- (b) 88
- (c) 97
- (d) 99

**Q78.** What is the difference of the place values of two 7s in the number 276875?

- (a) 69993
- (b) 699730
- (c) 699970
- (d) 69930

**Q79.** The product of 0.013 and 0.07 is equal to

- (a) 0.00091
- (b) 0.0091
- (c) 0.000091
- (d) 0.091

**Q80.** Read the data given in following table and select the correct statement:

The drink liked by children	Number of children
Milk	30
Coffee	25
Tea	35
Lemonade	10

- (a) Children who like lemonade are  $\frac{1}{5}$  of the total number of children.
- (b) Children who like coffee are one-fourth of the total number of children.
- (c) The number of children who like tea is less than the number of children who like milk.
- (d) The number of children who like coffee is more than the number of children who like milk.



**Q81.** What is the measure of the angle formed by the hands of the clock at 2'0 clock?

- (a)  $30^\circ$
- (b)  $45^\circ$
- (c)  $60^\circ$
- (d)  $90^\circ$

**Q82.** Bincy wants to spend least amount on purchasing decorative items. Which of the following she should select to spend the least amount?

- (a) 16 dozen items at Rs. 18.50 each.
- (b) 170 packets at Rs. 21.50 each
- (c) 12 dozen items at Rs. 25.00 each
- (d) 220 packets at Rs. 16.50 each

**Q83.** The table shows the change in the length of a plant (in cm) during different weeks:

Week	Length of the plant (in cm)
Week 1	0.5
Week 2	2.7
Week 3	5.8
Week 4	8.6
Week 5	11.5

The length of the plant change the most from \_\_\_\_\_

- (a) Week 1 to week 2
- (b) Week 2 to week 3
- (c) Week 3 to week 4
- (d) Week 4 to week 5

**Q84.** Meeta and bunty were counting the faces (surfaces) of various shapes. The number of faces in a cube, cylinder, cuboid and sphere respectively are:

- (a) 8, 3, 8, 1
- (b) 6, 4, 6, 1
- (c) 8, 4, 8, 1
- (d) 6, 3, 6, 1

**Q85.**

Which of the following fractions is less than  $\frac{7}{8}$  and greater than  $\frac{1}{3}$ ?

- (a)  $\frac{9}{10}$
- (b)  $\frac{2}{11}$
- (c)  $\frac{17}{24}$
- (d)  $\frac{26}{29}$



**Q86.** The average heights of five friends is 150cm. if the heights of 4 of these friends are 153cm, 150cm, 151cm and 147cm, then the height of the fifth friend is

- (a) 148cm
- (b) 149 cm
- (c) 150 cm
- (d) 151 cm

**Q87.** Team A scored 368 runs in first innings and 458 runs in second innings. Team B scored 395 runs in first innings and 439 runs in second innings. Which team won the match and by how many runs?

- (a) Team A, 18 runs
- (b) Team B, 18 runs
- (c) Team A, 8 runs
- (d) Team B, 8 runs

**Q88.** A train depart from New Delhi Railway station at 5:30 on 8 September 2021 and reaches Chennai at 21:50 the next day. What is the travel time taken by the train?

- (a) 40 hours 20 minutes
- (b) 45 hours 10 minutes
- (c) 42 hours 20 minutes
- (d) 41 hours 30 minutes

**Q89.** Identify a number, which is a multiple of 5 and 7 but not of 6, from the given options:

- (a) 210
- (b) 280
- (c) 630
- (d) 420

**Q90.** Which of the following letters have both horizontal and vertical lines of symmetry?

- (a) E
- (b) T
- (c) H
- (d) Y

## SCIENCE

**Q91.** Which of the following statements is/are true in the context of fertilization and pollination in plants.

- A. Ovary of the flower matures into fruit.
- B. Seeds of the plant forms the ovules for fertilization.
- C. Pollination takes place after fertilization.
- D. In pollination, seeds are dispersed by wind, water, birds and insects.
- E. Fertilization takes places in the ovules.

- (a) A, E
- (b) B, C
- (c) C, D
- (d) B, E

**Q92.** Read the following statements and choose the correct option.

Assertion A. White blood cells help in fighting with disease causing organisms

Reasoning R. A white blood cell can change shape

- (a) Both A and R are correct and R is the correct explanations for A
- (b) Both A and R are correct but R is not the correct explanations for A
- (c) A is correct but R is incorrect
- (d) A is incorrect but R is correct

**Q93.** The following table given the mass and volume of 3 immiscible liquids X, Y and Z.

	X	Y	Z
Mass (g)	4	8	6
V (cm <sup>3</sup> )	1	10	3

Equal quantities of liquids are poured in a test tube containing 5ml of water. What will be the order of liquids settled from top to bottom?

Consider density of water as 1g/cm<sup>3</sup>

- (a) Y, Water, Z, X
- (b) X, Y, Z, Water
- (c) X, Z, Water, Y
- (d) Water, X, Y, Z

**Q94.** When you increase the loudness of the ringtone of your mobile phone, the frequency of ringtone

- (a) Increases
- (b) decreases
- (c) remains same
- (d) cannot be determined

**Q95.** Which of the following statements is **not true** regarding modes of transfer of heat?

- (a) Convection takes place in liquids and gases only
- (b) Radiation cannot take place in gases
- (c) Conduction can take place in gases
- (d) Heat can be transferred through more than one mode simultaneously

**Q96.** Metal X displaces 'Y' and metal 'Z' from their respective salt solutions. Metal 'Y' displaces metal 'W' from its salt solution but 'Z' does not displace 'W' from its salt solution. The most and least reactive metals respectively are

- (a) X, Z
- (b) X, W
- (c) Y, Z
- (d) Y, W

**Q97.** Identify the following

- A. A non-metallic lubricant
- B. A metal which does not react with water but reacts with steam
- C. A metal which is constituent of baking powder
- D. a non metal used in fire crackers

A, B, C, D respectively are

- (a) Phosphorus, Zinc, Sodium, Sulphur
- (b) Carbon, Copper, Sodium, Phosphorus
- (c) Carbon, Copper, Calcium, Sulphur
- (d) Phosphorus, Copper, Calcium, Sulphur

**Q98.** A is called as Master Gland as it controls the secretion of hormones from B, C, thyroid and adrenal glands. 'A' also secretes D hormone whose production E in adolescence.

A, B, C, D, E respectively are

- (a) Pituitary, Pancreas, Hypothalamus, Thyroxin, increases
- (b) Hypothalamus, Pituitary, Pancreas, Growth, decreases
- (c) Hypothalamus, Ovaries, Testes, Growth, decreases
- (d) Pituitary, Ovaries, Testes, Growth, increases

**Q99.** Which of the following statements is/are true regarding fungi

- A. They are plants
  - B. They cannot perform photosynthesis
  - C. All fungi are unicellular
  - D. some fungi help in producing antibiotics
- (a) A, B, C
  - (b) A, B, D
  - (c) B, C, D
  - (d) A, C, D

**Q100.** Reena is suffering from vomiting and lack of appetite. Doctor diagnoses it as a viral disease caused due to contamination of water. Reena is suffering from

- (a) Hepatitis
- (b) Cholera
- (c) Dysentery
- (d) Typhoid

**Q101.** Soil 'A' has low water holding capacity and high petroleum rate. The organic matter level in the Soil 'B' has high water holding capacity and very slow percolation rate. It has high amount of organic matter. Soil 'C' has medium water capacity, percolation rate and organic matter content.

Identify the soils 'A', 'B', and 'C'

- (a) A- sand, B- silt, C-clay
- (b) A- sand, B- clay, C-silt
- (c) A- clay, B- silt, C-sand
- (d) A- clay, B- sand, C-silt

**Q102.** Dinu starts his spice business. He buys 10 kg turmeric powder, 8 kg red chili powder and 15 kg coriander powder. He makes small packets of 20 g of each of the spices. How many small packets of spices he prepares to sell?

- (a) 2100
- (b) 1850
- (c) 1650
- (d) 1975

**Q103.** The chart shows the height and weight of five teachers of a school:

Name Height Weight

Radhika 5 feet 4 inches 55.5kg

Aman 5 feet 10 inches 67kg

Vineet 6 feet 10 inches 72.5 kg

Kavita 5 feet 1 inches 60 kg

Rohini 4 feet 10 inches 45 kg

Which of the following statements is correct?

- (a) Vineet is longest but his weight is less than Aman
- (b) Rohini's height is 6 inches less than Kavita's height
- (c) The sum of Radhika and Vineet's weights is less than the sum of Aman and Kavita's weights.

(d) Rohini's weight is  $\frac{3}{4}$ th of Kavita's weight.

**Q104.** The perimeters of two equilateral  $\triangle ABC$  and  $\triangle PQR$  are 15 cm and 30cm respectively. Which of the following statements is correct about their interior angles?

- (a) Each interior angle of  $\triangle ABC$  is less than each interior angle of  $\triangle PQR$ .
- (b) Each interior angle of  $\triangle PQR$  is half the each interior than angle of  $\triangle ABC$ .
- (c) The interior angles of  $\triangle ABC$  and  $\triangle PQR$  are equal
- (d) Each interior angle of  $\triangle PQR$  is double the each interior angle of  $\triangle ABC$

**Q105.** Amongst the following shapes, the shape(s) that will lock exactly the same on a half turn is (are):

Equilateral Triangle, Square, Rectangle, Parallelogram

- (a) Only Square
- (b) Square and Rectangle
- (c) All Shapes except equilateral triangle
- (d) Only Equilateral Triangle

## SOCIAL SCIENCE

**Q106.** Manuscript comes from the Latin word 'manu' meaning

- (a) Man
- (b) Hand
- (c) Text
- (d) Intellect

**Q107.** The following statements a, b, c, d are related to iron pillar at Mehrauli, Delhi. Choose the correct

- (A) It is made of Iron
- (B) Its height is 7.8m
- (C) It was made about 1800 years ago
- (D) Its weight is 4 tonnes
- (a) A, B, C and D are correct
- (b) A and D are correct while B and C are wrong
- (c) A, B and D are correct while C is wrong
- (d) A, C and D are correct while B is wrong

**Q108.** The foreign pilgrim who spent time at Harshavardhana's court was

- (a) Fa Xian
- (b) Xuan Zang
- (c) I Qing
- (d) Sung Yun

**Q109.** Megaliths were erected to mark

- (a) ownership of land
- (b) inscribe one's achievements
- (c) birth in the family
- (d) burial sites

**Q110.** Life is full of suffering and unhappiness. This is because we love cravings and desires (which often cannot be fulfilled) Who has given the above mentioned doctrine?

- (a) Vardhamana Mahavir
- (b) Rishabha Dev
- (c) Gautam Buddha
- (d) Shankaracharya

**Q111.** Which of the following statements is **true** regarding 'The Sangha'?

- (a) Men and women who joined the Sangha could stay in their house.
- (b) They had to go to the cities and villages to beg for food during fixed hours.
- (c) The slaves did not have to take permission of their masters to join the Sangha.
- (d) Women did not have to take permission of their husbands to join the Sangha.

**Q112.** Consider the following two statements A and B about Jhum cultivation and choose the correct answer.

A: The British effort to settle Jhum cultivators was very much successful

B: The Jhum cultivators in North-East India insisted on practising traditional method.

- (a) Both A and B are true
- (b) Both A and B are false
- (c) A is true but B is false
- (d) A is false but B is true

**Q113.** Read the statements A and R and choose the correct option.

A: Read and Munro argued that, in south, the settlement had to be made directly with the cultivators.

R: Read and Munro felt that in the south, unlike North, there were no traditional zamindars.

- (a) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (b) Both (A) and (R) are true and (R) is not the correct explanation of (A)
- (c) (A) is true, but (R) is false
- (d) Both (A) and (R) are false

**Q114.** Consider the following statements:

(A) The Begums of Bhopal founded a primary school for girls in Aligarh

(B) Pundita Rama Bai published a book called Stripurushtulna

(C) Begum Rokeya Sakhawat Hossain started school for Muslim girls in Patna

- (a) A, B and C are correct
- (b) only A and B are correct
- (c) only A and C are correct
- (d) only B and C are correct

**Q115.** Which of the following is an argument against the practice of Sati?

- (a) Women are by nature unworthy of trust.
- (b) If you do not educate women, how can you consider them as inferior.
- (c) Women by nature are of inferior understanding.
- (d) Many women, on the death of their husbands, become desirous of accompanying them.

**Q116.** Consider the statements (A) and (R)

(A): Throughout the 19th century, most educated women were taught at home.

(R): Most people in the 19th century believed that women should stay away from public sphere.

- (a) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (b) Both (A) and (R) are true and (R) is not the correct explanation of (A)
- (c) (A) is true, but (R) is false
- (d) Both (A) and (R) are false

**Q117.** Which of the following events has a significant relation with the state of Assam?

- (a) Mopila Rebellion
- (b) Deccan Riots
- (c) Khilafat movement
- (d) Swadeshi movement

**Q118.** The overarching theme of the book 'Poverty and Un-British Rule in India', by Dadabhai Naoroji is about \_\_\_\_\_.

- (a) the governance and administration of British India Government.
- (b) the payment of wages paid mainly to weavers during the colonial period.
- (c) the economic impact of British rule in the Indian subcontinent.
- (d) the salaries and perks paid to officials of East India Company.

**Q119.** In Madras Presidency, for which of the linguistic community, Potti Sriramulu, a Gandhian wanted a separate state in 1950s and died?

- (a) Tamil
- (b) Kannada
- (c) Telugu
- (d) Malayalam

**Q120.** Match the following column:

A	B
(A) Earth's movement on its axis	(i) Revolution
(B) Earth's movement in a fixed orbit around the sun	(ii) Equinox
(C) Division of days and nights on the globe	(iii) Rotation
(D) Time of equal days and nights on earth	(iv) circle of illumination

- (a) (A) - (i), (B) - (iii), (C) - (iv), (D) - (ii)
- (b) (A) - (iii), (B) - (i), (C) - (iv), (D) - (ii)
- (c) (A) - (i), (B) - (iii), (C) - (ii), (D) - (iv)
- (d) (A) - (iii), (B) - (i), (C) - (ii), (D) - (iv)

**ନିମ୍ନଲିଖିତ ଅନୁଛେଦଟି ପଢ଼ି ପ୍ରଶ୍ନ (121-125)ର ଉତ୍ତର ଦିଅନ୍ତୁ ।**

ପାଠପଢ଼ା ସହିତ ଔପଚିରି ମନପ୍ରାଣ ଲାଗି ରହିଲା କବିତା ଲେଖାରେ । ବଡ଼ ହେଲା ପରେ ସତକୁ ସତ ସାରା ପୃଥିବୀରେ ନାଁ କଲା । ଏବେ ତାଙ୍କ କବିତା ସ୍କୁଲ, କଲେଜରେ ପଢ଼ା ହେଉଛି । ତାଙ୍କ ଲେଖା ପଢ଼ି ଲୋକେ ଆନନ୍ଦ ପାଉଛନ୍ତି । ଏହି ନାରୀ କବିଙ୍କର ଇଂରାଜୀ ଭାଷାରେ ବେଶ୍ ଦକ୍ଷତା ଥିଲା । ଇଂରେଜ ଲୋକମାନେ ମଧ୍ୟ ତାଙ୍କ କବିତାକୁ ପ୍ରଂଶସା କରୁଥିଲେ । ତାଙ୍କ କବିତାରେ ମୁଷ୍ଟ ହୋଇ ତାଙ୍କୁ କହୁଥିଲେ 'ପ୍ରାଚ୍ୟ ଜଗତର କୋକିଳ' । ଆଉ କେହି କେହି କହିଲେ 'ଭାରତର ବୁଲ୍ ବୁଲ୍' । ଏହି ମହିଳା ଜଣକ ହେଉଛନ୍ତି ଭାରତର ଲୋକପ୍ରିୟ ନେତ୍ରୀ ସ୍ୱାଧୀନତା ସଂଗ୍ରାମୀ ସରୋଜିନୀ ନାୟକ ।

ସରୋଜିନୀ ନାୟକ ଗୋଟିଏ ମଧ୍ୟବିତ୍ତ ବଙ୍ଗାଳୀ ପରିବାରରେ ୧୮୭୯ ମସିହା ଫେବୃଆରୀ ୧୩ ତାରିଖରେ ଜନ୍ମଗ୍ରହଣ କରିଥିଲେ । ତାଙ୍କର ପିତା ଅନ୍ଧୋରନାଥ ଚଟ୍ଟୋପାଧ୍ୟାୟ ଓ ମାତା ବରଦା ସୁନ୍ଦରୀଙ୍କର ସନ୍ତାନ ମାନଙ୍କ ମଧ୍ୟରେ ସେ ଥିଲେ ସବୁଠାରୁ ବଡ଼ । ସରୋଜିନୀ ହାଇସ୍କୁଲରୁ ଉଚ୍ଚ ଶିକ୍ଷା ଗ୍ରହଣ କରିବା ପାଇଁ ଗୋବିନ୍ଦ ରାୟଙ୍କୁ ନାୟକଙ୍କୁ ବିବାହ କରିଥିଲେ । ବିବାହ ପରେ ସେ ନିଜ ନାଆଁ ଲେଖିଲେ ସରୋଜିନୀ ନାୟକ ।

**Q121.** ପାଠପଢ଼ା ସହିତ ଔପଚିରି ମନ କେଉଁଥିରେ ଥିଲା ?

- (a) ନୃତ୍ୟଶିଳ୍ପ
- (b) ପ୍ରବନ୍ଧ ଲେଖା
- (c) କବିତା ଲେଖା
- (d) ନାଟକ ଲେଖା

**Q122.** 'ପ୍ରାଚ୍ୟ ଜଗତର କୋକିଳ' ବା 'ଭାରତର ବୁଲ୍ ବୁଲ୍' କିଏ ?

- (a) ସରୋଜିନୀ ନାୟକ
- (b) ଇନ୍ଦିରା ଗାନ୍ଧୀ
- (c) ଲତମଜେଶ୍ୱର କର
- (d) ଆଶା ଭୋସଲେ

**Q123.** ସରୋଜିନୀଙ୍କର କେଉଁ ଭାଷାରେ ବେଶୀ ଦକ୍ଷତା ଥିଲା ?

- (a) ବଙ୍ଗାଳୀ
- (b) ହିନ୍ଦୀ
- (c) ଓଡ଼ିଆ
- (d) ଇଂରାଜୀ

**Q124.** ସରୋଜିନୀ ନାୟକ କେବେ ଜନ୍ମ ଗ୍ରହଣ କରିଥିଲେ ?

- (a) ୧୮୮୭ ମସିହା ଫେବୃଆରୀ ୩୦ ତାରିଖରେ
- (b) ୧୯୩୦ ମସିହା ଜାନୁଆରୀ ୨୬ ତାରିଖରେ
- (c) ୧୮୭୯ ମସିହା ଫେବୃଆରୀ ୧୩ ତାରିଖରେ
- (d) ୧୮୭୯ ମସିହା ଜାନୁଆରୀ ୨୪ ତାରିଖରେ

**Q125.** ସରୋଜିନୀ ନାୟକଙ୍କ ପିତା ଏବଂ ମାତାଙ୍କ ନାମ କ'ଣ ଥିଲା ?

- (a) ଯଦୁନାଥ ଚଟ୍ଟୋପାଧ୍ୟାୟ, ମୀରା ଦେବୀ
- (b) କମଳନାଥ ବୋଷ, ହରପ୍ରିୟା ଦେବୀ
- (c) ଅନ୍ଧୋରନାଥ ଚଟ୍ଟୋପାଧ୍ୟାୟ ଓ ବରଦା ସୁନ୍ଦରୀ
- (d) ଅନ୍ଧୋରନାଥ, ସୁରମା ଦେବୀ

**Q126.** 'ପରିଶାମ' ପଦଟିରେ 'ପରି' ଉପସର୍ଗ ପରେ କେଉଁ ଧାତୁର ପ୍ରୟୋଗ ହୋଇଛି ସୂଚାଏ ।

- (a) ମାତା
- (b) ମା
- (c) 'ଅ'
- (d) ଉଭୟେ (A) ଓ (B) ଠିକ

**Q127.** କିଲୋ କମଳା, ତୋର ବନ୍ଧୁ କାହାଁନ୍ତି ? ରେଖାଙ୍କିତ ପଦଟିର ଅବ୍ୟୟ ଛିର କର ।

- (a) ସମ୍ପତ୍ତି ସୂଚକ
- (b) ସମ୍ବୋଧନ ସୂଚକ
- (c) ଆପେକ୍ଷିକ
- (d) ସଂଯୋଜକ ଅବ୍ୟୟ



**Q128.** ଭଗବାନଙ୍କୁ ବିଶ୍ୱାସ କରୁଥିବା ବ୍ୟକ୍ତି ପୃଥିବୀ ସମ୍ବନ୍ଧୀୟ ବିଷୟବାସନା ପ୍ରତି ବିମୁଖ ଥାନ୍ତି । ଉକ୍ତ ବାକ୍ୟଟି ରୂପଗତ ଦୃଷ୍ଟିରୁ କେଉଁ ଶ୍ରେଣୀର ନିର୍ଣ୍ଣୟ କର ?

- (a) ସରଳ
- (b) ଜଟିଳ
- (c) ଯୌଗିକ
- (d) ମିଶ୍ର

**Q129.** ଅନ୍ୟ ପିଲାମାନଙ୍କ ପରି ରାମ ଚନ୍ଦ୍ରର ଦୁହେଁ । ରେଖାଙ୍କିତ ପଦଟିର ସର୍ବନାମ ଛିର କର ।

- (a) ସମ୍ପଦ
- (b) ନିର୍ଣ୍ଣୟକ
- (c) ଆତ୍ମବଚକ
- (d) ନିର୍ଦ୍ଦେଶାତ୍ମକ

**Q130.** 'ସରଣୀ' ଶବ୍ଦର ପ୍ରତିଶବ୍ଦ ନିର୍ଣ୍ଣୟ କର ।

- (a) ଅନ୍ୟ
- (b) ଆଦି
- (c) ଅବାର
- (d) ଘସ୍ତ



## Solutions

**S1. Ans.(b)**

**Sol.** Alien means belonging to a foreign country and indigenous means originating or occurring naturally in a particular place; native.

**S2. Ans.(d)**

**Sol.** The Bengal Renaissance was different from the 16<sup>th</sup>-century European Renaissance because, unlike the Bengalis, Europeans were not under foreign rule.

**S3. Ans.(c)**

**Sol.** The spirit of the Renaissance lies in breaking all shackles of backwardness and narrow-mindedness.

**S4. Ans.(c)**

**Sol.** The Bengal Renaissance movement wanted social reform to improve the lot of the weak and the downtrodden.

**S5. Ans.(b)**

**Sol.** The Bengal Renaissance gathered momentum in the 19<sup>th</sup> century because there was an abundance of intellectual and creative activities in Bengal then.

**S6. Ans.(b)**

**Sol.** Upfront: free in expressing one's true feelings and opinions.

Ingenuous: showing simplicity and candidness.

The correct answer for the word "UPFRONT" is (b) ingenuous. "Upfront" means honest, straightforward, or candid. "Dissembling" means hiding one's true intentions, "equivocal" means ambiguous or unclear, and "ambiguous" means having multiple possible interpretations. Only "ingenuous" captures the meaning of being open and straightforward.

**S7. Ans. (d)**

**Sol.** Redundancy means the state of being not or no longer needed or useful and excess is an amount of something that is more than necessary, permitted, or desirable. Redundancy means the inclusion of unnecessary or repetitive elements, and "excess" implies an amount that goes beyond what is needed or expected, which aligns with the meaning of redundancy.

**S8. Ans.(a)**

**Sol.** The correct opposite of the word "COSSET" is (a) Ignore. "Cosset" refers to treating someone with excessive care or pampering them. It implies giving special attention and indulgence. On the other hand, "ignore" means to pay no attention to someone or something, to disregard or overlook them. It conveys the opposite action of not showing care or concern.

**S9. Ans.(d)**

**Sol.** Hollow: having a hole or empty space inside.

The correct opposite of the word "HOLLOW" is (d) Solid. "Hollow" refers to something that has an empty space inside or lacks solidity. It describes an object or structure that is not filled or lacks substance within. On the other hand, "solid" means being firm, substantial, or without any empty spaces or hollowness.

**S10. Ans.(c)**

**Sol.** The sun is shining brightly today" is a declarative sentence because it presents a statement or fact about the current weather condition. Declarative sentences are the most common type of sentence, used to convey information, opinions, or observations.

**S11. Ans.(c)**

**Sol.** After she finished her homework, she went to bed" is a complex sentence. It contains an independent clause, "she went to bed," and a dependent clause, "After she finished her homework." The dependent clause cannot stand alone as a complete sentence. A complex sentence is a sentence that consists of an independent clause and at least one dependent clause. An independent clause can stand alone as a complete sentence, while a dependent clause cannot.

**S12. Ans.(b)**

**Sol.** Luckily.

The sentence structure suggests that the missing word should indicate a fortunate circumstance or positive outcome that allowed the speaker to attend the wedding.

Luckily, This word means "fortunately" or "by chance," which perfectly fits the context. It implies that the speaker was fortunate enough to attend the wedding, possibly due to unexpected favorable circumstances.

**S13. Ans.(b)**

**Sol.** Use 'a' before 'lot of'. A lot of or lots of are the determiners which means the same, it is used with plural countable noun and i.e a lot of difficulties or lots of difficulties.

**S14. Ans.(d)**

**Sol.** Requisite means made necessary by particular circumstances or regulations.

Obligatory means required by a legal, moral, or other rule; compulsory.

**S15. Ans.(a)**

**Sol.** The most appropriate antonym for the word "Zenith" is (a) Nadir. Zenith.

The term "zenith" refers to the highest point or peak of something. It represents the culmination or pinnacle of success, achievement, or a celestial object's highest position in the sky. On the other hand, "nadir" is the exact opposite of zenith. It signifies the lowest point or the bottom of something. It represents the extreme point of decline, failure, or the lowest position of a celestial object in the sky.

**S16. Ans.(a)**

**Sol.** The winners of the Pulitzer Prize 2023 in the fiction category were Barbara Kingsolver for her novel 'Demon Copperhead' and Hernan Diaz for his novel 'Trust'.

- Sanaz Toossi won in the drama category.
- Beverly Gage won in the biography category.

**S17. Ans.(a)**

**Sol.** The theme of the 42nd Summit of the Association of Southeast Asian Nations (ASEAN) held in Indonesia in 2023 was "ASEAN Affairs: Epicenter of Growth."

- The theme aimed to highlight ASEAN's aspirations and efforts to become the center and driving force behind global development.

- ASEAN member countries, including Malaysia, Indonesia, the Philippines, Thailand, and Singapore, formed the organization in 1967 with the aim of fostering regional stability, economic progress, and social development.

**S18. Ans.(c)**

**Sol.** Naruemol Chaiwai, the skipper of the Thailand women's cricket team, has been named as the ICC Women's Player of the Month for April 2023.

During the T20I series, Chaiwai played a significant role in Thailand's victory against Zimbabwe. She scored 55 runs across the series, with her crucial knock of 29 runs in the second T20I helping her team secure a five-wicket win over Zimbabwe.

Fakhar Zaman has been named as the ICC Men's Player of the Month for April 2023.

**S19. Ans.(a)**

**Sol.** Lionel Messi, the renowned Argentine footballer, has been named the Sportsman of the Year at the 2023 Laureus World Sports Awards. This prestigious award recognizes Messi's exceptional achievements on the football field over the past year.

One of Messi's notable accomplishments was leading the Argentina Men's Football Team to victory in the FIFA World Cup.

**S20. Ans.(a)**

**Sol.** SAKSHAM, recently launched by Rajesh Bhushan, the Union Health Secretary, is an acronym for "Stimulating Advanced Knowledge for Sustainable Health Management." It is a Learning Management Information System (LMIS) developed by the National Institute of Health & Family Welfare (NIHFW) in New Delhi.

- SAKSHAM serves as a dedicated and unified platform designed to provide online training and medical education to all health professionals across the country. It aims to enhance the knowledge, skills, and capabilities of healthcare professionals, ensuring their continuous professional development.

**S21. Ans.(a)**

**Sol.** Nainital is famously referred to as the 'Lake District of India'.

**S22. Ans.(b)**

**Sol.** Kaziranga National Park situated in Assam state of India, is a UNESCO world heritage sites of India and known for Great Indian one-horned Rhinoceros. Kaziranga also boasts the highest density of tigers among the protected areas in the world and was declared a Tiger Reserve in 2006.

**S23. Ans.(a)**

**Sol.** The cerebellum is a region of the brain that plays an important role in motor control. It may also be involved in some cognitive functions such as attention and language, and in regulating fear and pleasure responses, but its movement-related functions are the most solidly established. The cerebellum does not initiate movement, but it contributes to coordination, precision, and accurate timing.

**S24. Ans.(d)**

**Sol.** Based on the information provided, Telangana is the large state that has achieved 100% ODF (Open Defecation Free) Plus status under Phase II of the Swachh Bharat Mission Gramin (SBM-G). This indicates that every village in Telangana has not only eradicated open defecation but also managed solid and liquid waste effectively, a key component of the ODF Plus criteria.

- Goa (95.3%) and Sikkim (69.2%) performed best in small states.

**S25. Ans.(a)**

**Sol.** National Technology Day is observed every year on May 11 in India.

- It is a day that commemorates India's successful nuclear tests conducted on May 11, 1998, at Pokhran, Rajasthan.
- On this historic day, India conducted the Pokhran-II nuclear tests, which included the successful detonation of five nuclear devices.
- Former Prime Minister Atal Bihari Vajpayee, who was in office at the time of the nuclear tests, coined the term "National Technology Day" to recognize and acknowledge the efforts of the Indian scientific community.

**S26. Ans.(c)**

**Sol.** IBM and NASA have collaborated to launch a new geospatial foundation model.

- This collaboration aims to utilize satellite data to create high-resolution maps of various landscape changes, including floods, fires, and other transformations.
- The geospatial foundation model is designed to provide valuable insights into the Earth's past and offer potential indications of its future.
- The model is expected to be integrated into IBM's watsonx.ai, which is described as a next-generation enterprise studio.

**S27. Ans.(b)**

**Sol.** A set of guidelines for sustainable port practices.

- 'Harit Sagar' refers to the Green Port Guidelines 2023 launched by the Minister of Ports, Sarbananda Sonowal.
- It is a comprehensive action plan aimed at promoting environment-friendly practices across all ports.
- These guidelines provide a framework for achieving targeted outcomes such as quantified reduction in carbon emissions over defined timelines and aligning with the Sustainable Development Goals (SDGs).

**S28. Ans.(b)**

**Sol.** The objective is to ensure that the country has a high-quality preschool network.

- The campaign "Poshan Bhi Padhai Bhi" launched by the Union Ministry of WCD aims to strengthen Early Childhood Care and Education (ECCE) in India.
- The campaign is part of the larger initiatives like Mission Saksham Anganwadi and Poshan 2.0, and it aligns with the vision of the National Education Policy (NEP).
- The focus is on providing both nutrition and better education to children, and the responsibility for implementing this initiative lies with Anganwadis across the country.

**S29. Ans.(a)**

**Sol.** National Technology Day is observed every year on May 11 in India.

- It is a day that commemorates India's successful nuclear tests conducted on May 11, 1998, at Pokhran, Rajasthan.
- On this historic day, India conducted the Pokhran-II nuclear tests, which included the successful detonation of five nuclear devices.
- Former Prime Minister Atal Bihari Vajpayee, who was in office at the time of the nuclear tests, coined the term "National Technology Day" to recognize and acknowledge the efforts of the Indian scientific community.

**S30. Ans.(b)**

**Sol.** Punjab has become the first state in India to implement the 'right to walk' by mandating road-owning agencies to include footpaths and cycle tracks in all future road expansions and construction. This step has been taken due to the alarming number of pedestrian and bicycle rider fatalities caused by encroachment on pedestrian footpaths, with more than 10 such incidents occurring every month.

- The road-owning agencies that are required to comply with this mandate include NHAI (National Highways Authority of India), the public works department, local bodies, and urban development departments.

**S31. Ans.(d)**

**Sol.** Room is present in House.

Needle is present in clock.

**S32. Ans.(b)**

**Sol.** Ostrich is a bird

**S33. Ans.(b)**

**Sol.** +7 series =121

**S34. Ans.(c)**

**Sol.**  $13 \times 13 - 19 = 20$

$12 \times 7 - 74 = 10$

$16 \times 2 - 4 = 28$

**S35. Ans.(a)**

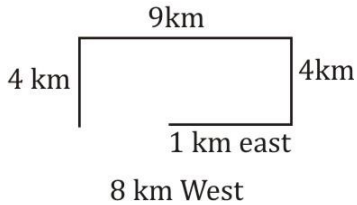
**Sol.** all other are +2, +2 series

**S36. Ans.(b)**

**Sol.** all other are +10, +20 series.

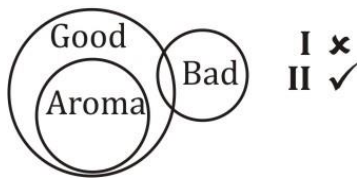
**S37. Ans.(a)**

**Sol.**



**S38. Ans.(b)**

**Sol.**



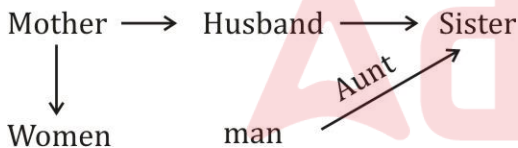
**S39. Ans.(a)**

**Sol.** from the given statement we can conclude as:

$F > B > D > D > C > E$

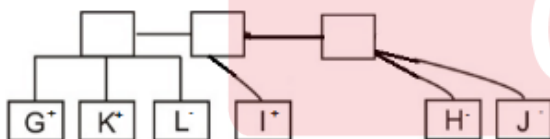
**S40. Ans.(d)**

**Sol.**



**S41. Ans.(c)**

**Sol.**



**S42. Ans.(a)**

**Sol.** cousin

**S43. Ans.(b)**

**Sol.** Three.

**S44. Ans.(d)**

**Sol.** Andman and Nicobar.

Except 'D' others are capital of union territory states

**S45. Ans.(c)**

**Sol.**  $(8 \times 3) \div 4 + 3 - 11$

$\Rightarrow 6 + 3 - 11$

$= -2$

**S46. Ans.(a)**

**Sol.** The correct answer is (a) Mainframe computer. Mainframe computers are designed to handle large amounts of data processing and administrative tasks. They are used by government organizations for tasks such as record-keeping, financial transactions, and data analysis. Mainframe computers are known for their reliability and security features, which make them ideal for government use.

**S47. Ans.(a)**

**Sol.** The correct answer is (a) First generation. The first generation of computers, developed in the late 1940s and 1950s, used vacuum tubes as the primary electronic component for processing and storing data. These computers were large and expensive and required a lot of maintenance. They were used mainly for scientific and military purposes.

**S48. Ans.(a)**

**Sol.** The correct answer is option a) Uniform Resource Locator. A URL is a web address that identifies a specific resource on the internet. It consists of several parts, including the protocol (e.g., "http" or "https"), the domain name, and the path to the resource. URLs make it easy for users to navigate to specific websites or pages on the internet.

**S49. Ans.(d)**

**Sol.** The correct answer is option D. While the Reason is true that browsers are specifically designed to access and display webpages on the internet, the Assertion that they are the only software that can access the internet is false. Other software, such as email clients, file transfer programs, and online chat programs, can also access the internet for various purposes.

**S50. Ans.(b)**

**Sol.** The correct answer is option B. While both the Assertion and Reason are true, the Reason is not the correct explanation for the Assertion. An intranet is a private network that is restricted to an organization or company, but it cannot be accessed using the internet. Instead, it is accessed through internal servers and networks within the organization.

**S51. Ans.(c)**

**Sol.** The correct answer is option C. Statement 1 is correct as a clear and concise subject line helps the recipient understand the purpose of the email. Statement 2 is incorrect as formal language and proper grammar should be used in business emails. Statement 3 is correct as proofreading helps to ensure that the email is error-free and professional.

**S52. Ans.(d)**

**Sol.** Mahila-E-Haat is a digital initiative launched by the Government of India to empower women entrepreneurs, especially those in rural areas, by providing them a platform to showcase and sell their products online. It also aims to provide digital education and training to women entrepreneurs to enhance their skills and help them grow their businesses. The platform is available in both English and Hindi, and can be accessed through a mobile app or website.



**S53. Ans.(b)**

**Sol.** The National Digital Library of India is a digital initiative launched by the Government of India with the objective of digitizing and preserving India's cultural heritage, as well as providing access to digital resources to students and scholars across the country. The platform offers a collection of books, manuscripts, photographs, and other resources that can be accessed through a web portal or mobile app. The objective of the initiative is to make these resources easily accessible to all, especially those who may not have access to traditional libraries and archives.

**S54. Ans.(c)**

**Sol.** The correct answer is (c) the third generation. ICs were smaller, more reliable, and less expensive than vacuum tubes, which made it possible to develop smaller and more powerful computers.

**S55. Ans.(b) Solid-state drive (SSD)**

**Sol.** Solid-state drives (SSDs) have a significantly higher access speed than hard disk drives (HDDs), CD-ROMs, and USB flash drives. This is because SSDs use flash memory technology, which allows for faster data access than the spinning disks used in HDDs and CD-ROMs. USB flash drives also use flash memory technology, but their access speed is generally lower than that of an SSD due to their smaller size and lower capacity. SSDs are therefore a popular choice for high-performance applications that require fast data access, such as gaming, video editing, and scientific computing.

**S56. Ans.(a)**

**Sol.** ISDN stands for Integrated Services Digital Network.

**S57. Ans.(a)**

**Sol.** Thermal printers are inkless.

**S58. Ans.(d)**

**Sol.** The TCP/IP protocol suite contains four layers including network access, Internet, transport and application.

**S59. Ans.(d)**

**Sol.** Assembler translates a program written in an assembly language into machine language.

**S60. Ans.(d)**

**Sol.** Tim Berners-Lee- Inventor of the World Wide Web. Berners-Lee is the director of the World Wide Web Consortium (W3C), which oversees the continued development of the Web.

Raymond Tomilison- Sent the first e-mail (to himself)

Douglas Englebart- Father of computer mouse

Charles Babbage- Father of computers, inventor of analytical engine and difference engine

Vint Cerf- Father of the Internet. Cerf is the co-designer of the TCP/IP protocols and the architecture of the Internet.

**S61. Ans.(c)**

**Sol.** As per National Education Policy 2020, the assessment of learners should include the progress as well as the uniqueness of learners in cognitive, affective, and psychomotor domains.

**S62. Ans.(c)**

**Sol.** Instead of limiting classroom learning to the textbook, National Education Policy 2020 suggests that learning and education should be focused on inquiry and the development of critical thinking. Applying critical thinking helps you make decisions that require a lot of thought.

**S63. Ans.(d)**

**Sol.** According to the RTE Act, 2009, the curricular and evaluation process should:

- Make child free from fear, trauma and anxiety
- Be child centered and provide learning activities
- Medium of instruction has to be in mother tongue, as far as possible

**S64. Ans.(d)**

**Sol.** The Right to Education Act commonly known as RTE Act was enacted in August 2009 by the Indian government.

It is an act which aims to provide free and compulsory education to all children between the age of 6 to 14 years in India under the Article 21A of the Indian Constitution.

**S65. Ans.(a)**

**Sol.** Academic supervision supports the transformation of teaching-learning processes.

**S66. Ans.(c)**

**Sol.** The teaching and learning process can be defined as a transformation process of knowledge from teachers to students.

**S67. Ans.(a)**

**Sol.** Project-based and play-based approaches to learning improves children's engagement and motivation.

**S68. Ans.(c)**

**Sol.** Family is the primary agency of socialization for children. Family is usually considered to be the most important agent of socialization. They teach us how to care for ourselves and give us our first system of values, norms, and beliefs.

**S69. Ans.(a)**

**Sol.** Two glasses hold the same amount of water yet Anu thinks that the taller glass holds more water than the 'wider but shorter' glass, according to Jean Piaget this reasoning of Anu is due to Centration. Centration is the tendency to focus on only one aspect of a situation at one time, when a child can focus on more than one aspect of a situation at the same time they have the ability to decenter.

**S70. Ans.(c)**

**Sol.** Reversibility-the ability to reverse actions is a basic accomplishment of Concrete Operational as given in the Piagetian theory of Cognitive development. According to Piaget's theory, there are four stages of cognitive development, and each of the stages represents a new way of thinking and understanding the world. He called them 1) sensor motor intelligence 2) Preoperational thinking 3) Concrete operational thinking 4) formal operational thinking.

**S71. Ans. (b)**

**Sol.** Development of children proceeds from general to specific. The General to Specific trend in motor organs is the progression from the entire use of the body to the use of a specific body organ. For example, initially, infants can grossly hold a toy with both hands at about four months of age but after practice and time, twelve-month-old infants can hold smaller toys or food in each hand using a pincher grasp.

**S72. Ans.(a)**

**Sol.** Rich children are raised differently than poor children as childhood is not universal and there is a lot of diversity in childhood.

**S73. Ans. (b)**

**Sol.** Proximodistal sequence: It means that the development proceeds from the central part of the body towards the peripheries. In this sequence, the spinal cord of the individual develops first, and then outward development takes place. For example, the child could use her arms before her hands and use her hands before she could control the movement of her fingers.

**S74. Ans.(d)**

**Sol.** Socialization: The process by which a human being beginning at infancy acquires the habits, beliefs, and accumulated knowledge of society through education and training for adult status.

Children learn knowledge, skills, values, and customs of society from their parents only is a false statement as socialization has four major agents namely family, school, peers, and mass media and children learn social skills from all agents.

The socialization of children is a simple and linear process is a false statement as socialization is a complex process in which agencies influence children during various times in their life-span.

**S75. Ans.(b)**

**Sol.** Pre-operational Stage: This is the second stage of cognitive development which is a pre-logical stage as logic has not yet fully developed. It extends from two to seven years of age. They begin to think symbolically. During Symbolic play, children can create mental images of objects and store them in their minds for later use. For example, such a child can draw a picture of or pretend to play with a puppy that is no longer present there.

**S76. Ans.(b)**

**Sol.** There are 253 hundreds in 2534.

**S77. Ans.(d)**

**Sol.** 10, 11, 12, 13, 14..... 99

$$29 \times 4 = 96$$

The number should be between 96, 97, 98, 99

So, Ones and tens digits are equal so the number 99

The correct answer is 99

**S78. Ans.(d)**

**Sol.** The place value of 7 in 276875 is 70 and 70000

$$\text{Difference} = 70000 - 70 = 69930$$

**S79. Ans.(a)**

$$\text{Sol. } 0.013 \times 0.07 = 0.00091$$

**S80. Ans.(b)**

**Sol.** Children who like coffee are one-fourth of the total number of children.

**S81. Ans.(c)**

$$\text{Sol. } 60^\circ$$

**S82. Ans.(a)**

**Sol.** 16 dozen items at Rs. 18.50 each.

**S83. Ans.(b)**

**Sol.** The length of the plant change the most from Week 2 to week 3

**S84. Ans.(d)**

**Sol.** Meeta and buntu were counting the faces (surfaces) of various shapes. The number of faces in a cube, cylinder, cuboid and sphere respectively are 6, 3, 6, 1

**S85. Ans.(c)**

**Sol.**

among the given options  $\frac{17}{24}$  is less than  $\frac{7}{8}$  and greater than  $\frac{1}{3}$

**S86. Ans.(b)**

**Sol.** Total height of five friends =  $150 \times 5 = 750$  cm

Let height of 5<sup>th</sup> friend = x

Then,

$$153 + 150 + 151 + 147 + x = 750$$

$$\text{Or, } x = 750 - 601$$

$$x = 149 \text{ cm}$$

**S87. Ans.(d)**

**Sol.** Total runs scored by Team A =  $368 + 458 = 826$

Total runs scored by Team B =  $395 + 439 = 834$

Hence Team B won the match by  $= 834 - 826 = 8$  runs

**S88. Ans.(a)**

**Sol.** 40 hours 20 minutes

**S89. Ans.(b)**

**Sol.** 280

**S90. Ans.(c)**

**Sol.** H

**S91. Ans.(a)**

**Sol.** A. Ovary of the flower matures into a fruit. (True)

B. Seeds of the plant form the ovules for fertilization. (False)

C. Pollination takes place after fertilization. (False)

D. In pollination, seeds are dispersed by wind, water, birds, and insects. (False)

E. Fertilization takes place in the ovules. (True)

**S92. Ans.(a)**

**Sol.** Assertion (A) – White blood cells help in fighting disease-causing organisms

- White blood cells (WBCs) are an important part of the immune system which help in fighting infections by attacking bacteria, viruses, and germs that invade the body.
- WBCs are also known as leucocytes.
- WBCs are produced in the bone marrow.
- These cells circulate through your bloodstream and tissues, attacking any unknown organisms that enter your body in response to injury or illness.
- These are nucleated and are generally short-lived cells.
- The number of WBCs is relatively lesser in number, about 6000-8000 mm<sup>3</sup> of blood.
- WBCs are of five types.
- Neutrophils
- Eosinophils
- Basophils
- Lymphocytes
- Monocytes

Reason (R) – A white blood cell can change shape.

- White blood cells have the ability to change shape.
- WBC has an irregular shape. To prevent diseases, they change shape to engulf or kill bacteria that enter the blood.
- Furthermore, the ability to change shape allows cells to form a protective layer around pathogens with medicinal value.

**S93. Ans.(a)**

**Sol.**

Density – The density of a substance is defined as the mass per unit volume.

$$\text{Density} = \frac{\text{Mass}}{\text{Volume}}$$

The unit of density is kilogram per meter cube (kg/m<sup>3</sup>).

$$\text{The density of X} = \frac{M}{V} = \frac{4}{1} = 4 \text{ gm/cm}^3$$

$$\text{The density of Y} = \frac{M}{V} = \frac{8}{10} = 0.8 \text{ gm/cm}^3$$

$$\text{The density of Z} = \frac{M}{V} = \frac{6}{3} = 2 \text{ gm/cm}^3$$

The density of water = 1 gm/cm<sup>3</sup> (approx.)

Thus, Y < water < Z < X

Equal quantities of liquids are poured into a test tube containing 5 ml of water. Thus, the order of liquids settled from top to bottom is Y, Water, Z, X.

**S94. Ans.(c)**

**Sol.** As the loudness of the mobile ringtone increases, the frequency of the ringtone remains the same. The loudness of sound waves does not depend on the frequency of the sound waves.

**S95. Ans.(b)**

**Sol.** Heat is an energy transfer from one system to another or from one part of a system to another part, arising due to temperature differences. There are three modes of heat transfer-

- a) Conduction
- b) Convection
- c) Radiation

Conduction – Conduction is the mechanism of transfer of heat between two adjacent parts of a body because of their temperature difference. Conduction can take place only in solids, not in gases.

Convection – Convection is a mode of heat transfer by the actual motion of matter. It occurs mostly in liquids and gases.

Radiation – The mode of heat transfer where heat is transferred from one place to another without affecting the medium particles is called radiation.

**S96. Ans.(a)**

**Sol.** Metal activity series: The metal reactivity series is an array of metals arranged in descending order of their reactivities. It is also known as the metal activity series. The top metals in the series (K, Na, Ca, Mg, and Al) are so reactive that they are never found as free elements in nature. The metals at the bottom of the activity series are the least reactive. Some of these metals can be found in their natural state in the earth's crust.

- Metals X displaces metal 'Y' and metal 'Z' from their respective salt solutions. So, X is more reactive than metal Y and metal Z.

- Metal 'Y' displaces metal 'W' from its salt solution. So, Y is more reactive than metal W.
- Metal 'Z' does not displace 'W' from its salt solution. So, Z is less reactive than W.
- According to the given information –  
 $X > Y$  and  $Z$   
 $Y > W$   
 $Z < W$

**S97. Ans.(a)**

**Sol.** A, B, C, and D respectively are Phosphorus, Zinc, Sodium, and Sulphur.

**S98. Ans.(d)**

**Sol.** The pituitary gland – is the smallest endocrine gland but serves a very important role in the human endocrine system. It directly or indirectly controls almost all other endocrine glands of the body. It is also known as the master gland. The pituitary gland also secretes hormones that act on the adrenal glands, thyroid gland, ovaries, and testes, which in turn produce other hormones.

**S99. Ans.(b)**

**Sol.** Fungi are eukaryotic organisms that include microorganisms such as yeasts, molds, and mushrooms. These organisms are classified under the kingdom of fungi. The organisms found in the Kingdom of fungi contain a cell wall and are omnipresent. They are classified as heterotrophs among living organisms.

**S100. Ans.(a)**

**Sol.** Hepatitis is a viral disease. It is inflammation of the liver tissue and it is of two types – acute and chronic. It disturbs various metabolic processes such as bile production, excretion, fat and protein metabolism, activation of enzymes, and synthesis of proteins. There are currently 5 viruses identified (hepatitis A, B, C, D, and E) that specifically attack the liver and cause “viral hepatitis” or inflammation of the liver due to a virus.

Mode of acquiring: Through the consumption of contaminated food and water (Hepatitis A)

Symptoms of Hepatitis:

- Fatigue
- Vomiting
- Lack of appetite
- Abdominal pain
- Dark urine and pale stool
- Weight loss

**S101. Ans.(b)**

**Sol.** A - Sand, B - clay, and C – silt

'Sandy' soil has low water holding capacity and a high percolation rate. The organic matter level in the soil is low. 'Clayey' soil has a high-water holding capacity and a very slow percolation rate. It has a high amount of organic matter. 'Silt' soil has medium water capacity, percolation rate, and organic matter content.

**S102. Ans.(c)**

**Sol.**  $10 + 8 + 15 = 33 \text{ kg} = 33000\text{g}$

So, he has to make =  $33000/20 = 1650$  small packets

**S103. Ans.(d)**

**Sol.**

Rohini's weight is  $\frac{3}{4}$ th of Kavita's weight.

**S104. Ans.(c)**

**Sol.**

The interior angles of  $\triangle ABC$  and  $\triangle PQR$  are equal

**S105. Ans.(c)**

**Sol.** All Shapes except equilateral triangle.

**S106. Ans.(b)**

**Sol.** The word 'Manuscript' comes from the Latin word 'manu' meaning Hand. They are called manuscripts because they were written by hand. These were usually written on palm leaves, all on the specially prepared bark of a tree known as the birch.

**S107. Ans.(b)**

**Sol.** (a) & (d) are correct

Following are the correct statement related to the iron pillar at Mehrauli Delhi-

- It is made of iron
- It's weight is four tonnes
- It is 7.2 M high
- It was made about 1500 years ago

**S108. Ans.(b)**

**Sol.** Xuan Zang was a foreign pilgrim who spent time at Harshavardhana's court in search of Buddhist texts.

**S109. Ans.(d)**

**Sol.** Megaliths were erected to mark burial sites. The practice of erecting megaliths begin about 3000 years ago and was prevalent throughout the Deccan South, India in the northeast and Kashmir.

**S110. Ans.(c)**

**Sol.** The above mentioned doctrine is given by Gautam Buddha. The Buddha thought that life is full of suffering and unhappiness. This is caused because we have cravings and desires which often cannot be fulfilled. The Buddha describes this as thirst or Tanha. He taught that this constant craving could be removed by following moderation in everything.

**S111. Ans.(b)**

**Sol.** The true statement regarding the Sangha is-

They had to go to the cities and villages to beg for food during fixed hours.

When the disciples of Buddha grew, he founded a Sangha, which is an organization of monks who too become teachers of Dhamma.



**S112. Ans.(d)****Sol.** A is False and B is true

The British effort to settle jhum cultivators was not very successful. Settled plough cultivation is not easy in areas where water is scarce and the soil is dry. In fact, jhum cultivators who took to plough cultivation often suffered, since their fields did not produce good yields. So the jhum cultivators in North East India insisted on continuing with their traditional practice.

**S113. Ans.(a)****Sol.** Both (A) & (R) are true and R is the correct explanation of A.

Read and Munro felt that in the south there were no traditional zamindars. The settlement they argued to be made directly with the cultivators who had tilled the land for generations. Their field had to be carefully and separately surveyed before the revenue assessment was made. Munro thought that the British should act as paternal father figures protecting the ryots under their charge.

**S114. Ans.(c)****Sol.** Statements A and C are correct.

- From the early 20th century, Muslim women like the begums of Bhopal played a notable role in promoting education among women. They founded a primary school for girls at Aligarh.
- Begum Rokeya Sakhawat Hossain started schools for Muslim girls in Patna and Kolkata.
- Stripurushtulna was a book by Tarabai Shinde.

**S115. Ans.(b)****Sol.** The argument against the practice of sati is that if you do not educate women, how can you consider them as inferior.**S116. Ans.(a)****Sol.** Both A and R are true and R is the correct explanation of a

Throughout the 19th century, most educated women were taught at home by liberal fathers or husbands.

Many people felt that this would have a corrupting influence on them. They felt that girls should stay away from public spaces.

**S117. Ans.(d)****Sol.** The Swadeshi movement has a significant relation with the state of Assam.**S118. Ans.(c)****Sol.** Naoroji's book Poverty and Unbritish rule in India offered scathing criticism of the economic impact of British rule.**S119. Ans.(c)****Sol.** In October of 1952, a veteran Gandhian named Potti Sriramulu went on a hunger strike demanding the formation of the Andhra state to protect the interests of Telugu speakers.**S120. Ans.(b)****Sol.** Earth's movement on its axis-rotation

Earth's movement in a fixed orbit around the sun-revolution

Division of days and nights on the global circle of illumination

Time of equal days and nights on earth-equinox

**S121. Ans.(c)****Sol.** କବିତା ଲେଖା**S122. Ans.(a)****Sol.** ସରୋଜିନୀ ନାୟକ**S123. Ans.(d)****Sol.** ଇଂରାଜୀ**S124. Ans.(c)****Sol.** ୧୮୭୯ ମସିହା ଫେବୃଆରୀ ୧୩ ତାରିଖରେ**S125. Ans.(c)****Sol.** ଅଘୋରନାଥ ଚଟ୍ଟୋପାଧ୍ୟାୟ ଓ ବରଦା ସୁନ୍ଦରୀ**S126. Ans.(b)****Sol.** ମା**S127. Ans.(b)****Sol.** ସନ୍ତୋଧନ ସୂରକ**S128. Ans.(a)****Sol.** ସରଳ**S129. Ans.(b)****Sol.** ନିର୍ଣ୍ଣାୟକ**S130. Ans.(a)****Sol.** ଅୟନ