Total Marks 200

|                  | MATHS/SCIENCE   |   |
|------------------|---|---|
|                  | (English Medium)  | Category  |
|                  |   |   |
|                  | No. of andidate   | ] <b>A</b> [                                    |
| Block<br>Candi   | No. of the date   | <u> </u>  |
| Signat<br>Candio |   | gnature of the ck Supervisor                    |
|                  |   |   |
|                  | Important Instructions for C  | Candidates                                      |
| (1)              | Please do not open the question booklet until you are tole  | d to do so.                                     |
| (2)              | During examination, if a candidate is found having any handwritten or printed paper, mobile phone, calculator, spy then the candidate will be considered as disqualified. |   |
| (3)              | During the examination if candidates are found convers following supervisor's instructions then they will be cons   |   |
| (4)              | After receiving question paper please write your seat number  | in <b>OMR SHEET</b> at the correct given place. |
| (5)              | Please do not write your seat number at any other place that if any sign of your identity or recognition is found then you the examination.                               |   |
| (6)              | Signatures of both the supervisor and the candidate in the constitution without which <b>OMR SHEET</b> will not be evaluated, so signature of the supervisor.             |   |
| (7)              | Candidates can use blue/black ball pen. They cannot use p whitener.   | pens or pencils of any other colour and also    |
| (8)              | No marks should be made on any of the options in the qu   | estion paper.                                   |
| (9)              | There are total 200 questions in this question paper. There the options A, B, C and D. Four options are given for each a Example: What is the capital of Gujarat?         |   |
|                  | (A) Ahmedabad (B) Gandhinagar (   | C) Vadnagar (D) Patan                           |
|                  | Here, if option (B) Gandhinagar is correct then option (B) in with pen. (A) (C)   | the <b>OMR SHEET</b> will have to be darkened   |
| (10)             | One(1) mark is allotted to each correct answer. For each wr<br>a candidate does not want to answer any question then he<br>marking will not be applicable for option E.   |   |
| (11)             | Cross marked answers, answers given on more than one oblade, eraser or whitener will be given <b>Negative 0.25 mar</b>  | •   |
| (12)             | Please hand over the <b>OMR SHEET</b> to the block supervis leaving the classroom. Any candidate failing to do so examination.  | -   |
| (13)             | Maximum time allotted for the examination is 180 minutes.   |   |
| (14)             | Most appropriate option will be considered as answer of   | the question.                                   |

## Space for Rough Work

| (1)   | "Provision to parents of giving education opportunity to their children having age 6 to 14 years." The above section is added in which set of schedule 86 of Indian constitution under fundamental rights? |   |  |  |
|---|--|---|--|--|
|   | (A) Section -11  | (B) Section - 2                                   |  |  |
|   | (C) Section -86  | (D) Section - 4                                   |  |  |
| (2)   | Who is the author of life sketch of Mahadevbhai Desai "Agnikund Mein Uga Hua Gulab"?   |   |  |  |
|   | (A) Manbhatt   | (B) Narayan Desai                                 |  |  |
|   | (C) Jayshankar Desai   | (D) Mahadev Desai                                 |  |  |
| (3)   | Who is the author of stanza "Harino M  | Iarag Che Shoorano"?                              |  |  |
|   | (A) Kavi Preetam Das   | (B) Manishankar Ratnajee Bhatta                   |  |  |
|   | (C) Damodar Khushal Botadkar   | (D) Narsinh Mehta                                 |  |  |
| (4)   | Function of Union of India is mentione   | ed in which part of Indian Constitution?          |  |  |
|   | (A) 6  | (B) 4   |  |  |
|   | (C) 5  | (D) 2   |  |  |
| (5)   | Which Indian sportsperson won bronze   | e in 51 kg category in World Boxing Championship? |  |  |
|   | (A) Sukhdev  | (B) Nishant Dave                                  |  |  |
|   | (C) Husamuddin   | (D) Deepak Bhuriya                                |  |  |
| (6)   | To encourage Indian people for independence movement which English newspaper has been started by Gandhiji in India first?  |   |  |  |
|   | (A) Young India  | (B) Youth India                                   |  |  |
|   | (C) Vartaman Bharat  | (D) Aandolan                                      |  |  |
| (7) In which age Himalayan Mountain Range formed? |  | ige formed?                                       |  |  |
|   | (A) Satyug (age)   | (B) Archean age                                   |  |  |
|   | (C) Jurassic age   | (D) Tertiary age                                  |  |  |
| (8)   | Stars of sky shine because of which effect of Science?   |   |  |  |
|   | (A) Diffusion of Light   | (B) Refraction of light                           |  |  |
|   | (C) Diffraction of light   | (D) Division of light                             |  |  |
| (9)   | What is the share of industries in gross national production in India?   |   |  |  |
|   | (A) 25%  | (B) 29%   |  |  |
|   | (C) 32%  | (D) 39%   |  |  |
| (10)  | In which part of Indian constitution, fundamental duties have been included?   |   |  |  |
|   | (A) Part -3 (A)  | (B) Part -5 (A)                                   |  |  |
|   | (C) Part - 4 (A)   | (D) Part - 6 (A)                                  |  |  |

| (11)   | Who was the first person to receive "Bharat Ratna"? |   |  |
|--|---|---|--|
|  | (A) Dr. Rajendra Prasad                             | (B) Dr. Sarvepalli Radhakrishnan  |  |
|  | (C) Mahadevbhai Desai                               | (D) Lalbahadur Shastri  |  |
| (12) In which of the following programmes interactive board is used? |   | ractive board is used?  |  |
|  | (A) Pragya Abhigam                                  | (B) Bal Project   |  |
|  | (C) Virtual Classroom                               | (D) Gyankunj Project  |  |
| (13)   | Unique ID of how many digits is given to the        | ne students of a secondary school?  |  |
|  | (A) 14  | (B) 16  |  |
|  | (C) 18  | (D) 19  |  |
| (14)   | Education is a subject of which list in Indian      | Constitution?   |  |
|  | (A) Central List                                    | (B) State list  |  |
|  | (C) Joint List                                      | (D) District list   |  |
| (15)   | In which organ, there is insulin production?        |   |  |
|  | (A) Stomach   | (B) Pancreas  |  |
|  | (C) Large intestine                                 | (D) Brain   |  |
| (16)   | In which country Hockey World Cup (Mer              | ns) - 2023 was organised?   |  |
|  | (A) India   | (B) Japan   |  |
|  | (C) France  | (D) Brazil  |  |
| (17) Where is the World's Biggest Mineral Oil Purification Plant?    |   | urification Plant?  |  |
|  | (A) Jamnagar  | (B) Ankleshwar  |  |
|  | (C) Digboi  | (D) Dehradun  |  |
| (18)   | ary Schools for the year 2023-24 by Gujara          | been decided for Gujarat Secondary and Higher Secondary Secondary and Higher Secondary Education Board? |  |
|  | (A) 79<br>(C) 81                                    | (B) 80<br>(D) 82  |  |
| (19)   |   | 20, which institution has been authorized for monitoring of   |  |
|  | (A) PARAKH  | (B) SWAYAM  |  |
|  | (C) DIKSHA  | (D) SSSA  |  |
| (20)   | Up to which class education is expected in          | mother tongue in National Education Policy 2020?  |  |
|  | (A) Class 6   | (B) Class 8   |  |
|  | (C) Class 10  | (D) Class 5   |  |
|  |   |   |  |

(4/24)

MATHS/SCIENCE (A)

| (21) | 1) If the syllabus is changed because of business and industries then this is considered as effect of v factors on educational objectives?      |  |  |  |
|------|---|--|--|--|
|      | (A) Cultural factors  | (B) Social factors                     |  |  |
|      | (C) Economical factors  | (D) Ethical factors                    |  |  |
| (22) | "Without thinking on what a person is doing what he should do"? This thought is connected wi goals of education?                                |  |  |  |
|      | (A) Ethical goals   | (B) Goals of attaining knowledge       |  |  |
|      | (C) Goal of complete life   | (D) Goals of good use of free time     |  |  |
| (23) | Objectives, syllabus, institutions and time limit if all of these are decided then this is considered as which form of education?               |  |  |  |
|      | (A) Informal  | (B) Formal                             |  |  |
|      | (C) Illegal   | (D) Joint                              |  |  |
| (24) | Which program does not directly apply to In   | nformal learning?                      |  |  |
|      | (A) Knowledge of alphabets  | (B) Examination                        |  |  |
|      | (C) Education of business   | (D) Deaddiction                        |  |  |
| (25) | Which of the following issues is not include  | d in three issues of learning process? |  |  |
|      | (A) Starting  | (B) Result                             |  |  |
|      | (C) Process   | (D) Evaluation                         |  |  |
| (26) | (26) Some children are introverts, some are extroverts, some are talkative and some of them are sl type of difference in children is known as - |  |  |  |
|      | (A) Physical difference   | (B) Difference in personality          |  |  |
|      | (C) Difference in hobbies   | (D) Social difference                  |  |  |
| (27) | Which of the following is not included in diff  | ferent intelligence quotients?         |  |  |
|      | (A) Intelligence Quotient (I.Q.)  | (B) Spiritual Quotient (S.Q.)          |  |  |
|      | (C) Regional Quotient (R.Q.)  | (D) Emotional Quotient (E.Q.)          |  |  |
| (28) | Who has developed vocational interest mod   | ification?                             |  |  |
|      | (A) McDougall   | (B) Strong                             |  |  |
|      | (C) Morgan  | (D) Garrett                            |  |  |
| (29) | Which experiment is used to measure abilities/powers like Art, Music, Creativity in a person?   |  |  |  |
|      | (A) Attitude Criteria   | (B) Interest experiment                |  |  |
|      | (C) Zest/Rasa modification  | (D) Aptitude experiment                |  |  |
| (30) | Which is not included in three types of internal processes in a class?  |  |  |  |
|      | (A) Teacher-Student Behaviour   | (B) Student-Material Behaviour         |  |  |
|      | (C) Teacher-Material Behaviour  | (D) Student-Student Behaviour          |  |  |
|      |   |  |  |  |

| (31) | mmonly used three middle position statistical measures?                                |   |  |
|------|--|---|--|
|      | (A) Mean   | (B) Median  |  |
|      | (C) Mode   | (D) Midpoint  |  |
| (32) | Which is different from the three tests of even  | aluation?   |  |
|      | (A) Written  | (B) Oral  |  |
|      | (C) Practical  | (D) Functional                                      |  |
| (33) | With which of the following is spreadsheet   | related?  |  |
|      | (A) Microsoft Excel  | (B) Microsoft Powerpoint                            |  |
|      | (C) Microsoft Word   | (D) Access  |  |
| (34) | Whose philosophy of education is shown in  | "Framing and Clading"?                              |  |
|      | (A) Gijubhai Badheka   | (B) Nanabhai Bhatt                                  |  |
|      | (C) Taraben Modak  | (D) J. Krishnamurti                                 |  |
| (35) | Education by productive labour, for produc   | etive labour, and can only be of productive labour" |  |
|      | (A) Mahatma Gandhiji   | (B) Ravindranath Tagore                             |  |
|      | (C) Mr. Arvind   | (D) Swami Vivekananda                               |  |
| (36) | Which of the following principles is not included in principles of John Dewey?         |   |  |
|      | (A) Principle of utility   | (B) Principle of inclination                        |  |
|      | (C) Principle of labour  | (D) Principle of zest(rasa)                         |  |
| (37) | New India Literacy Program (NILP) has been started for illiterates of which age group? |   |  |
|      | (A) 15 years and above   | (B) 15 years to 55 years                            |  |
|      | (C) 6 years to 14 years  | (D) 21 years to 65 years                            |  |
| (38) | Which is known as one nation one digital platform?                                     |   |  |
|      | (A) PM eVIDYA  | (B) BISAG-N   |  |
|      | (C) DIKSHA   | (D) Vande Gujarat Channel                           |  |
| (39) | Who talked about learning by senses?   |   |  |
|      | (A) Dr. S. Radhakrishnan   | (B) Ravindranath Tagore                             |  |
|      | (C) Mahatma Gandhi   | (D) Maharishi Arvind                                |  |
| (40) | Who started learning by senses for special children?                                   |   |  |
|      | (A) Maria Montessory   | (B) Grace Fernold                                   |  |
|      | (C) Jim Piaget   | (D) Ivan Pavlov                                     |  |
|      |  |   |  |

(6/24)

MATHS/SCIENCE (A)

| (41) | <ul><li>(A) Trial and Error - Vygotsky</li><li>(C) Constructivism - Skinner</li></ul>   | (B) Behaviourism - Pavlov (D) Conditioning by factors – Thorndike   |  |
|------|---|---|--|
| (42) | Which of the following is not a characteristic (A) Experience is necessary for learning (B) Interaction with environment is necessary (C) Learning can enter from one condition (D) Memory is necessary for learning          | ry for learning   |  |
| (43) | Who gave Discovery learning approach?   |   |  |
|      | (A) Robert Gagne  | (B) Jerome Brunner  |  |
|      | (C) Bandura   | (D) Ausubel   |  |
| (44) | What will be the area of a circle having radi question. Which intellectual skill he or she h  | us 14 cm? A formula is used by children to answer this as obtained?   |  |
|      | (A) Differentiation   | (B) Concept   |  |
|      | (C) Rule  | (D) Solution of the problem   |  |
| (45) | In which of the following disorders intellectual skill of children destroys?  |   |  |
|      | (A) Down Syndrome   | (B)ADHD   |  |
|      | (C) Cerebral Palsy  | (D)Autism   |  |
| (46) | Which of the following will be on top level according to Bloom's Taxonomy?  |   |  |
|      | (A) Evaluation  | (B) Creation  |  |
|      | (C) Isolation   | (D) Utilization   |  |
| (47) | Which of the following is unsuitable in achievement test?   |   |  |
|      | (A) Sufficient time given to the students to answer all of the questions  |   |  |
|      | (B) Class is related with progress(development)   |   |  |
|      | (C) Education work is given at the end  |   |  |
|      | (D) Questions are selected to test the skills   | of a student  |  |
| (48) | Which of the following measurements of mi   | iddle position cannot be shown?   |  |
|      | (A) Mean  | (B) Extension   |  |
|      | (C) Median  | (D) Mode  |  |
| (49) | Which of the following is not true for stand (A) Group Category will be as much as the (B) Standard deviation increases by the add (C) If all the marks are multiplied by only one (D) Standard deviation is used to know the | low value of standard deviation<br>ition of any constant number in marks<br>number then standard deviation increases at the same rate |  |

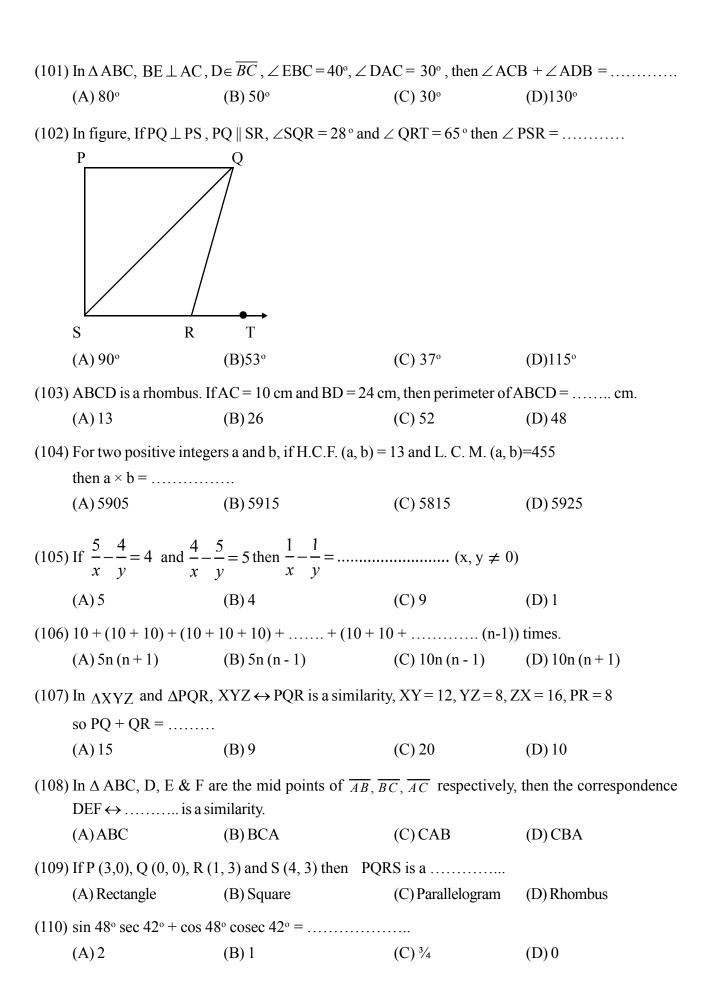
| (50) | Which of the following is not a characterist (A) These are only in digital format             | ic of E-content?  |
|------|---|---|
|      | (B) It is presented by webpage or any other   | r medium  |
|      | (C) It contains only animation  |   |
|      | (D) It can be linked with QR code.  |   |
| (51) | Which of the following is not OER?  |   |
|      | (A) BISAG - N   | (B) GROWER  |
|      | (C) NROER   | (D) e-pathshala   |
| (52) | Which of the following subjects (issue) doe   |   |
|      | (A) Learning-Teaching is a present time fie   |   |
|      | (C) Class learning is interesting   | (D) Information is available online.  |
| (53) | Summary of which cannot be applied excep (A) Experimental modification (C) Basic Modification | oting its related groups. This is what type of modification? (B) Survey (D) Functional modification |
| (54) | "Children is creator of knowledge and not   |   |
| (34) | (A) Behaviourism  | (B) Naturalism  |
|      | (C) Rationalism   | (D) Constructivism  |
| (55) | Learning is a natural process and not mann  | nade. Who gave this concept?  |
|      | (A)Aristotle  | (B) Rousseau  |
|      | (C) Froebel   | (D) Montessori  |
| (56) | R, U, X, A, D, ? To complete the series who   | at will replace the "?" question mark   |
|      | (A) F   | (B) G   |
|      | (C) H   | (D) I   |
| (57) | 1, 3, 3, 6, 7, 9, 9, 12, 21,? To complete th  | e series what will replace the "?" question mark  |
|      | (A) 10  | (B) 11  |
|      | (C) 12  | (D) 13  |
| (58) | 10, 100, 200, 310, ? To complete the serie  | s what will replace the "?" question mark   |
|      | (A) 400   | (B) 410   |
|      | (C) 420   | (D) 430   |
| (59) | In a certain code TEACHER is written as written as?   | VGCEJGT then in the same code CHILDREN can be   |
|      | (A) EJKNEGTP  | (B) EGKNFITP  |
|      | (C) EJKNFGTO  | (D) EJKNFTGP  |
| (60) | In a certain code TWENTY is written as 8 same code TWELVE can be shown by whi                 | 63985 and ELEVEN is written as 323039 then in the ich number?                                       |
|      | (A) 863203  | (B) 863584  |
|      | (C) 863903  | (D) 863063  |
| MATI | HS/SCIENCE (A)  | (8/24)  |

| (61) | In a certain code language '123' means 'bright little boy' and 145 means 'tall big boy'. In the same way '637' means 'beautiful little flower' then which number will be there for 'bright'? |                          |   | ی ع                        |
|------|--|--------------------------|---|----------------------------|
|      | (A) 1  |                          | (B) 2   |                            |
|      | (C) 3  |                          | (D) 4   |                            |
| (62) | If + means ×, × means -, ÷ means + and – means ÷ then which of the following numbers will b solution of $175 - 25 \div 5 + 20 \times 3 + 10$   |                          |   | lowing numbers will be the |
|      | (A) 77   |                          | (B) 160                                       |                            |
|      | (C) 240  |                          | (D) 2370                                      |                            |
| (63) | Select the appropriate  20160 4  ? 4  480  96  24  | option for '?' in the    | following figure                              |                            |
|      | (A) 860  |                          | (B) 1140                                      |                            |
|      | (C) 2880   |                          | (D) 3240                                      |                            |
| (64) | How many triangles a   | re there in the given fi | mire)   |                            |
| (04) | Tiow many triangles a  | Te there in the given in | guic:   |                            |
|      |  |                          |   |                            |
|      | (A) 15   | (B) 16                   | (C) 17  | (D) 18                     |
| (65) | What will be the angl  | e in degrees between     | minute and hour hand of a clo                 | ock at 3:40?               |
|      | (A) 140  | (B) 150                  | (C) 130                                       | (D) 120                    |
| (66) | Select the odd pair: (A) Yoghurt-milk (C) Peanut - oil   |                          | (B) Sandal - leather<br>(D) Sugar – sugarcane |                            |
| (67) | Arrange the letters of   | the given word alphab    | petically.                                    |                            |
|      | (1) INTERANAL (2) INSECT (3) INCOME (4) INTERN (5) INSIDE  |                          |   |                            |
|      | (A) 3, 2, 5, 4, 1<br>(C) 4, 5, 1, 3, 2   |                          | (B) 3, 4, 5, 2, 1<br>(D) 3, 1, 2, 4, 5        |                            |
| (68) | If first day of a leap ye  | ear is Sunday then ho    | w many Sundays will be there                  | e in the same year?        |
|      | (A) 50   | (B) 51                   | (C) 52  | (D) 53                     |
| (69) | A person drives his ca   | ar 50 km towards eas     | t after that he turns right and c             | drives 30 km. Then he      |
|      | _  |                          | vay he is from the starting poi<br>(C) 100 km |                            |

| (70) | Select the different fi                        | gure.                                       |  |                                       |
|------|--|---|--|---------------------------------------|
|      | A  | B   | $ \begin{array}{c c} C & D \\ \hline \end{array} $                           |                                       |
|      | (A) A  | (B) B                                       | (C) C  | (D) D                                 |
| (71) | <br>(A) અનલ                                    | ાગ્નિનો સમાનાર્થી છે.<br>(B) અનિલ           | (C) અનંગ   | (D) તપસ                               |
| (72) | નીચેનામાંથી                                    | કર્મધારેય સમાર                              | સનું ઉદાહરણ છે.  |                                       |
|      | (A) તકસાધુ                                     | (B) કલ્પવૃક્ષ                               | (C) પંચામૃત  | (D) પરમેશ્વર                          |
| (73) | તમારાથી વડીલો સામે (                           | ગ્રેંચા અવાજે ન બોલાય.                      | - વાક્યનો પ્રકાર ઓળખો.   |                                       |
|      | (A) કર્તીરે                                    | (B) કર્મણિ                                  | (C) ભાવે   | (D) પ્રેરક                            |
| (74) | સફળતા જિંદગીની હસ્ત                            | રેખામાં નથી હોતી, ચણાયે                     | તેલ ઈમારત એના નકશામાં નથી હે   | ોતી. આ કાવ્યનો પ્રકાર જણાવો.          |
|      | (A) ફુહા                                       | (B) મુક્તક                                  | (C) હાઈકુ  | (D) સૉનેટ                             |
| (75) | ખોટી જોડણી કઈ છે ?                             |   |  |                                       |
|      | (A) સુદેઢ                                      | (B) દીકરી                                   | (C) અકસ્માત્   | (D) કનિષ્ટ                            |
| (76) | 'નીરવ' શબ્દનો વિરુદ્ધાર્થી શબ્દ શું થાય ?      |   |  |                                       |
|      | (A) સૂમસામ                                     | (B) ઘવલ                                     | (C) પીડા   | (D) કોલાહલ                            |
| (77) | સમાનાર્થી શબ્દોની ખો                           | ટી જોડ હોય તે વિકલ્પ કયં                    | ો છે ?   |                                       |
|      | (A) ખોભણ - ગુફા                                | (B) અનરવો - હિંમત                           | વાન (C) અડવડિયું - લથડિયું   | (D) આર્દ્રતા - મૃદુતા                 |
| (78) | 'ઘોડાના સવારને બેસવ                            |   | ખવાનું રૂ કે ઊનનું આસન' - શબ્દ   | સમૂહ માટેનો એક શબ્દ કયો છે?           |
|      | (A) દળી  | (B) ટેકણિયું                                | (C) પીઠિકા   | (D) માંચડો                            |
| (79) |  | પ્રયોગ ન થયો હોય તેવું વ<br>                | ાક્ય કયું છે ?   |                                       |
|      | (A) હાશ ! હવે નિરાંત                           |   |  |                                       |
|      |  | યાઆ મૂઝાયા, અમન કા<br>પ્રાણો એને ગમતાં નથી. | ઈ સૂઝ પડી નહીં, ઉત્તરપત્રો મૂકી  | દઇન ચલતા પકડા.                        |
|      | (C) ૧ જેકેલું . મારા લ<br>(D)તો મારો દુશ્મ     |   |  |                                       |
| (80) | _  | ્ર<br>ર્યી શબ્દોની ખોટી જોડ હોય             | ય તેવો વિકલ્પ કયો છે ?   |                                       |
| ()   | (A) ગુણ - પણછ, દોર્                            |   | (B) કૂટ - ઠગાઈ, શિખર   |                                       |
|      | (C) કાંત - મન, અંતઃક                           | રણ  | (D) કર - કિરણ, સૂંઢ  |                                       |
| (81) | આપેલ વાક્યોમાં રેખાં<br>(A) મેં આ પત્ર કે ઠરાવ |   | પ્રયોગ થયો હોય તેવું વાક્ય કયું છે<br>(B) કામ <mark>વેળાસર</mark> થાય તે જ અ |                                       |
|      | (C) સાંજે છ <u>વાગે</u> જાહે <sup>ર</sup>      | ર ગ્રંથાલય બંધ થાય છે.                      | (D) દરેકે આવકમાંથી <u>યથાશક</u> િ  | <del>તે પ્રમાણે</del> દાન કરવું જોઈએ. |
| MAT  | HS/SCIENCE (A)                                 |   | (10/24)  |                                       |

| (82) | 'દેવ્યૈશ્ચયે' શબ્દનો સીધીવેગ્રહ શું થાય ?   |   |
|------|---|---|
|      | (A) દેવ + એશ્વર્ય   | (B) દેવે + એશ્વર્ય                                |
|      | (C) દેવ્ય + ઐશ્વર્ય   | (D) દેવી + એશ્વર્ય                                |
| (83) | આપેલાં વાક્યોમાં 'કર્મણિ વાક્ય' કયું છે ?   |   |
|      | (A) એ સમયમાં લોકો જુગાર રમતા.   | (B) એણે પચાસ માણસોને જમાડ્યા.                     |
|      | (C) સરકાર તરફથી આ મહિને અનાજ અપાયું છે.   | (D) અશોક કંઈ બોલ્યો ન હોત.                        |
| (84) | 'છત્રી પર નામ-સરનામું લખવાનો ઉપાય <u>ખરેખર</u> કારગ<br>ક્રિયાવિશેષણનો કયો પ્રકાર છે ? | ત નીવડ્યો.' - વાક્યમાં રેખાંકિત કરેલ શબ્દ 'ખરેખર' |
|      | (A) અભિગમવાચી ક્રિયાવિશેષણ  | (B) સમયવાચક ક્રિયાવિશેષણ                          |
|      | (C) રીતિવાચક ક્રિયાવિશેષણ   | (D) સ્થાનવાચક ક્રિયાવિશેષણ                        |
| (85) | 'મારો હંસલો નાનો ને દેવળ જૂનું રે થયું.' - અલંકાર ઓળ                                  | ાખાવો.  |
|      | (A) વ્યક્તિરેક અલંકાર   | (B) અતિશયોક્તિ અલંકાર                             |
|      | (C) રૂપક અલંકાર   | (D) ઉપમા અલંકાર                                   |
| (86) | Mahesh was too smart. (Remove 'too' without char                                      | nging the meaning.)                               |
|      | (A) Mahesh was not smart at all.  |   |
|      | (B) Mahesh was smart more than required.  |   |
|      | (C) Mahesh was foolish.   |   |
|      | (D) I was doubtful whether Mahesh was smart or r                                      | not.  |
| (87) | INS Arihant is Indian N   | aval ship. (Fill in the blanks)                   |
|      | (A) The & an  | (B) An & an                                       |
|      | (C) A & an  | (D) The & the                                     |
| (88) | Most students have brought their homework   | of them have not completed it yet.                |
|      | (A) None  | (B) Few   |
|      | (C) Each  | (D) A little                                      |
| (89) | મેં મારા વાળ કપાવ્યા આ વાક્યનું ચોક્કસ અંગ્રેજી ભાષ                                   | માંતર શું થશે ?                                   |
|      | (A) I cut my hair.  | (B) I clipped my hair.                            |
|      | (C) I got my hair cut.  | (D) I had a nice hair cut.                        |
| (90) | Give the nearest meaning of word: 'Phantom'.  |   |
|      | (A) existent  | (B) imaginary                                     |
|      | (C) corporeal   | (D) tangible                                      |
| (91) | Give the verb form of 'little'.   |   |
|      | (A) alittle   | (B) unlittle                                      |
|      | (C) belittle  | (D) bilittle                                      |
|      |   |   |

| (92)  | Change the voice: "What caused COVID-   | 19 ?  |
|-------|---|---|
|       | (A) What was COVID-19 caused by?  | (B) What was caused by COVID-19?  |
|       | (C) By what is COVID-19 caused?   | (D) By what COVID-19 was caused?  |
| (93)  | Select the word or phrase which is closest to will never <b>accept</b> your request." | the opposite in meaning of the underlined word: "Rahul                  |
|       | (A) turn over   | (B) turn down   |
|       | (C) turn up   | (D) reject  |
| (94)  | Add a suitable question tag: Radha, one of  | my neighbours slipped off a staircase?                                  |
|       | (A) did she   | (B) does she  |
|       | (C) doesn't she   | (D) didn't she  |
| (95)  | Fill in the blanks with appropriate set of preporthe world when she was 17 years old. | sitions: Nidhi travelled her mother all                                 |
|       | (A) by, above   | (B) for, around   |
|       | (C) with, around  | (D) with, over  |
| (96)  | Turn this sentence into English : "eপু પણ હ   | કું તેને ત્યાં એકલી ઊભેલી જોઈ શકતો હતો.''                               |
|       | (A) I could still saw her standing there alone  | e. (B) I could still see her stood there alone.                         |
|       | (C) I could still see her standing there alone.                                       | (D) I can still see her standing there alone.                           |
| (97)  | Fill in the blanks with the appropriate wo May 2023. They                             | rd / words: Rohan and Nayan have been on vacation to Manali for a week. |
|       | (A) for, had gone   | (B) since, had gone   |
|       | (C) for, have gone  | (D) since, have gone  |
| (98)  | Mantra got the first prize last week. Find o  | ut the correct option to get the underlined answer.                     |
|       | (A) Which prize did Mantra get last week?   |   |
|       | (B) When did Mantra get the first prize?  |   |
|       | (C) Which prize Mantra got last week?   |   |
|       | (D) Where did Mantra get the first prize?   |   |
| (99)  | Ravi in this company for five   | e years. Find out correct form of verb from the options.                |
|       | (A) works   | (B) is working  |
|       | (C) has been working  | (D) have worked   |
| (100) | Find out the correct spelling from the option   | S.  |
|       | (A) Spactacular   | (B) Spectacular   |
|       | (C) Spactaculor   | (D) Specteculor   |



| $(A) - \cos 2B$  | (B) cos2B  | (C) gin 2D             |   |
|--|--|------------------------|---|
|  | (2) 00522  | (C) sin2B              | $(D)-\sin 2B$   |
| Cylindrical water tank w is (meter) <sup>3</sup>   | hose radius is 2.1 meter and                       | height is 5 meter then | its capacity  |
| (A) 693  | (B) 6.93   | (C) 69.3               | (D) 0.693   |
| •  | •  |                        | •   |
| (A) 30   | (B) 20   | (C) 15                 | (D) 45  |
| -  |  | •                      |   |
| (A) 5  | (B) $10\sqrt{3}$                                   | (C) $5\sqrt{3}$        | (D) 10  |
| The volume of sphere w   | ith diameter 1 cm is                               | cm <sup>3</sup> .      |   |
| $(A) \frac{4\pi}{3}$   | $(B) \frac{2\pi}{3}$                               | (C) $\frac{\pi}{6}$    | (D) $\frac{\pi}{24}$  |
| 6) Two dice are thrown simultaneously, then probability that sum of dice will be prime number is |  |                        |   |
| (A) $\frac{1}{3}$  |  | (B) $\frac{7}{18}$     |   |
| (C) $\frac{1}{6}$  |  | (D) $\frac{5}{12}$     |   |
| The probability that a lea   | ap year will have 52 Sunday                        | s is                   |   |
| (A) 1  | (B) $\frac{1}{7}$                                  | (C) $\frac{2}{7}$      | (D) 0   |
| cannot be the  | he measures of the sides of t                      | riangle.               |   |
| (A) 10, 12, 14   |  | (B) 2, 3, 4            |   |
| (C) 2, 4, 10   |  | (D) 8, 9, 10           |   |
| The mean of $\frac{2}{5}$ , $\frac{5}{7}$ , $\frac{3}{5}$ , $\frac{2}{7}$                        | is   |                        |   |
| (A) $\frac{3}{5}$  | (B) 1  | (C) $\frac{1}{2}$      | (D) 2   |
| If $\tan \theta + \sin \theta = a$ and   | $\tan \theta - \sin \theta = b$ , then $a^2 - b^2$ | 2 =                    |   |
| (A) $2\sqrt{ab}$   | (B) 4ab  | (C) 2ab                | (D) $4\sqrt{ab}$  |
|  | is   | is                     | (A) 693 (B) 6.93 (C) 69.3  The angle of depression of the stone from the top of the tower is 45° and the tower is 30 meter then the distance between the tower and stone is |

| (121) 2FeSO - heat                  | $Fe_2O_3 + SO_2 + SO_3$ . This   | reaction is                                   |                                    |  |
|-------------------------------------|----------------------------------|---|------------------------------------|--|
| (A) Double displace                 |                                  | (B) Combination                               |                                    |  |
| (C) Displacement                    |                                  | (D) Decompositi                               |                                    |  |
|                                     | ng with the correct response.    | . , ,   |                                    |  |
| (1) Metal                           | ig with the correct response.    | (a) Acidic oxides                             | 3                                  |  |
| (2) Non - metal                     |                                  | (b) Neutral oxide                             |                                    |  |
| (3) Amphoteric                      |                                  | (c) Both acidic a                             |                                    |  |
| (4) Salt                            |                                  | (d) Basic oxides                              |                                    |  |
| (A) $1 - d$ , $2 - a$ , $3$         | -c, 4-b                          | (B) $1 - c$ , $2 - b$ ,                       |                                    |  |
| (C) $1 - a$ , $2 - c$ , $3$         | -b, 4-d                          | (D) $1 - b$ , $2 - d$                         | 3 - a, 4 - c                       |  |
| (123) A body is thrown              | vertically upwards with ve       | elocity v, the greatest h                     | eight h to which it will rise is   |  |
| (A) $\frac{V}{2g}$                  | (B) $\frac{V^2}{2g}$             | (C) $\frac{V^2}{g}$                           | $(D)\frac{V}{g}$                   |  |
| (124) The wave number               | of wave of wavelength 10 r       | n is  |                                    |  |
| (A) 10 m <sup>-1</sup>              | $(B)100 \mathrm{m}^{-1}$         | (C) 0.01 m <sup>-1</sup>                      | (D) $0.1 \text{ m}^{-1}$           |  |
| (125) Which is the formu            | ıla of alkyne having 9 carbo     | n atoms?                                      |                                    |  |
| (A) $C_{9}H_{14}$                   | (B) $C_{9}H_{18}$                | (C) $C_9H_{16}$                               | (D) $C_9H_{20}$                    |  |
| (126) Which is reducing             | gagent in reaction - $3O_{2(g)}$ | $+2H_2S_{(2)} \rightarrow 2H_2O_{(0)} + 2S_2$ | $SO_{\chi_{\lambda}}$ ?            |  |
| $(A) O_2$                           | (B) H <sub>2</sub> O             | $(C) H_2 S$                                   | $(D) SO_2$                         |  |
| (127) What is the molecu            | lar formula of sodium zinca      | te?   |                                    |  |
| (A) NaZn(OH) <sub>3</sub>           |                                  | (B)NaZn(OH) <sub>4</sub>                      |                                    |  |
| $(C) Na_2Zn(OH)_4$                  |                                  | (D)NaZnOH                                     |                                    |  |
| (128) Which of the lens v<br>power? | with focal length 10 cm, 20 cm   | em, 25 cm, 50 cm has ma                       | aximum                             |  |
| (A) 25 cm                           | (B) 20 cm                        | (C) 10 cm                                     | (D) 50 cm                          |  |
| (129) Which compound                | neutralizes the effect of acid   | ity in stomach?                               |                                    |  |
| (A) NaHCO <sub>3</sub>              | $(B)Mg(OH)_2$                    | (C) CaCO <sub>3</sub>                         | (D) all of these                   |  |
| (130) Which of the follow           | ving is a mis-matched pair?      |   |                                    |  |
| (A) Thigmotropisn                   | _                                | (B) Photonasty-                               | - lotus flower                     |  |
| (C) Thigmonasty –                   |                                  | •   | (D) Thigmonasty – flowers of tulip |  |

| (131) | What is used from the fo                                      | ollowing by wrist – watch re     | pairer?                       |                |  |
|-------|---|----------------------------------|-------------------------------|----------------|--|
|       | (A) Convex lens   |                                  | (B) Concave lens              |                |  |
|       | (C) Convex mirror   |                                  | (D) Concave mirror            |                |  |
| (132) | Where is the image form                                       | ned in the eye of a person hav   | ving farsightedness?          |                |  |
|       | (A) on retina   |                                  | (B) behind retina             |                |  |
|       | (C) on the pupil  |                                  | (D)in front of the retina     |                |  |
| (133) | Which of the following non-metals possesses shining surface?. |                                  |                               |                |  |
|       | (A) Iodine  |                                  | (B) Carbon                    |                |  |
|       | (C) Sulphur   |                                  | (D) Phosphorus                |                |  |
| (134) | 100 w, 220 v is written                                       | on one bulb. What will be re     | sistance of this bulb?        |                |  |
|       | (A) 22 Ω  |                                  | $(B)(22)^2\Omega$             |                |  |
|       | (C) $(22)^{-2}\Omega$   |                                  | (D) $(22)^{-1}\Omega$         |                |  |
| (135) | Which medicine is prep  | pared using NH <sub>3(a)</sub> ? |                               |                |  |
|       | (A) Paracetamol   | 3(6)                             | (B) D - Cold                  |                |  |
|       | (C)Aspirin  |                                  | (D) Para-amino benzoic ac     | id             |  |
| (136) | A person suffering from                                       | n which defect should keep th    | ne power of spectacle lens po | sitive?        |  |
|       | (A) Presbyopia  |                                  | (B) Cataracts                 |                |  |
|       | (C) Myopia  |                                  | (D) Hypermetropia             |                |  |
| (137) | Plant responds to stimu                                       | li by growing in a               | particular direction.         |                |  |
|       | (A) very quickly  |                                  | (B) very slowly               |                |  |
|       | (C) medium speed  |                                  | (D) very fast                 |                |  |
| (138) | An element having aton  | nic number will for              | m a basic oxide.              |                |  |
|       | (A) 7   | (B) 17                           | (C) 14                        | (D) 11         |  |
| (139) | 1 picometer is  | <del>.</del> .                   |                               |                |  |
|       | (A) $10^{-10}$ m  |                                  | (B) $10^{-9}$ m               |                |  |
|       | (C) 10 <sup>-12</sup> m                                       |                                  | (D) 10 <sup>-11</sup> m       |                |  |
| (140) | Which one of the follow                                       | ving statements is not true?     |                               |                |  |
|       | (A) The molecules in a  | solid vibrate about a fixed po   | sition.                       |                |  |
|       | (B) The molecules in a l                                      | liquid are arranged in a regul   | ar pattern                    |                |  |
|       | (C) The molecules in a g                                      | gas exert negligible small for   | ces on each other, except dur | ing Collisions |  |
|       | (D) The molecules of a  | gas occupy all the space ava     | ilable.                       |                |  |

| (141 | ) When water at 0° C fre                       | ezes to form ice at the same                                 | temperature of 0°C, t   | hen it                      |
|------|--|--|-------------------------|-----------------------------|
|      | (A) Absorbs some heat                          |  | (B) Releases some heat  |                             |
|      | (C) Neither absorbs no                         | r releases heat  | (D) Absorbs exactly     | 3.34 x 105J/Kg heat         |
| (142 | ) Which of the following                       | statements is incorrect?                                     |                         |                             |
|      | (1) Parenchyma tissues                         | have intercellular spaces.                                   |                         |                             |
|      | (2) Collenchymatous tis                        | ssues are irregularly thickene                               | ed at corners.          |                             |
|      | (3) Apical and intercala                       | ry meristems are permanent                                   | tissues.                |                             |
|      | (4) Meristematic tissue                        | s, in its early stage, lack vacu                             | oles.                   |                             |
|      | (A) 1 & 2                                      | (B) Only 3   | (C) 3 & 4               | (D) Only 2                  |
| (143 | _  | ccident in which two long bo<br>wing may be the possible rea |                         | lislocated.                 |
|      | (A) Tendon breaks                              |  | (B) Break of skeletal   | l muscles tissue            |
|      | (C) Ligament breaks                            |  | (D) Areolar tissue br   | reaks                       |
| (144 | ) How many times an ato                        | om of Sulphur is heavier than                                | an atom of Carbon?      |                             |
|      | (A) 32 times                                   | (B) 12 times   | (C) $\frac{8}{3}$ times | (D) $\frac{12}{32}$ times   |
| (145 | ) Name the process by w                        | hich we can obtain various g                                 | gases from the air?     |                             |
|      | (A) Distillation                               | (B) Hydrolysis   | (C) Fractional Distill  | ation (D) Froth Flotation   |
| (146 | ) Paramecium belongs to                        | which species?   |                         |                             |
|      | (A) Fungi                                      | (B) Prokaryotes  | (C) Protista            | (D) Porifera                |
| (147 | ()does not o                                   | contain water of crystallization                             | on?                     |                             |
|      | (A) Blue vitriol                               | (B) Gypsum   | (C) Baking soda         | (D) Washing soda            |
| (148 | ) Which of the following                       | is a fungal disease causing m                                | aximum deaths of poul   | ltry birds?                 |
|      | (A) Pullorium                                  | (B) Coryza   | (C) Rickets             | (D) Aspergillosis           |
| (149 | ) 'Water pollution' can be correct definition? | e defined in several ways. W                                 | hich of the following s | tatements does not give the |
|      | (A) The addition of the                        | undesirable substances to w                                  | ater bodies             |                             |
|      | (B) The removal of the                         | desirable substances from w                                  | rater bodies            |                             |
|      | (C) A change in pressur                        | re of the water bodies                                       |                         |                             |
|      | (D) A change in temper                         | rature of the water bodies.                                  |                         |                             |
| (150 | , , ,  | fer from the problem of acne<br>/hich of the following micro | •                       | 0.0                         |
|      | (A) H1N1 virus                                 | (B) Trypanosoma  | (C) Leishmania          | (D) Staphylococcus          |
|      |  |  |                         |                             |

| (151) | conditions?   | can produce longitudinal as v   | well as transverse wave                | es under different                   |
|-------|---|---|--|--------------------------------------|
|       | (A) Bats  | (B) Slinky  | (C) Tuning for                         | (D) None of these                    |
| (152) | ) Which of the following  | can sometimes be 'zero' for a   | a moving body?                         |                                      |
|       | (i) Average velocity  |   |  |                                      |
|       | (ii) Distance travelled   |   |  |                                      |
|       | (iii) Average speed   |   |  |                                      |
|       | (iv) Displacement   |   |  |                                      |
|       | (A) Only (i)  | (B) (i) and (ii)  | (C) (i) and (iv)                       | (D) Only (iv)                        |
| (153) | yellow precipitate of lea   | nent reaction between aqueou<br>d iodide is formed. While per<br>can be used in place of lead n | forming the activity if                | •                                    |
|       | (A) Lead sulphate (insol  | luble)  | (B) Lead acetate                       |                                      |
|       | (C)Ammonium nitrate   |   | (D) Potassium sulpha                   | ate                                  |
| (154) | ) Which of the following  | reaction will not take place?   |  |                                      |
|       | (A) $Zn + CuSO_4 \rightarrow Z$   | ZnSO <sub>4</sub> + Cu  | (B) $2KBr + Cl_2 \rightarrow$          | KCl+Br <sub>2</sub>                  |
|       | (C) $Zn + MgSO_4 \rightarrow$   | $ZnSO_4 + Mg$   | (D) $Mg + FeSO_4 -$                    | $\rightarrow$ MgSO <sub>4</sub> + Fe |
| (155) | Which of the following  (i) Higher the pH, strong  (ii) Higher the pH, weal  (in) Lower the pH, strong  (iv) Lower the pH, wear | ker the acid<br>nger the base   | n aqueous solution of                  | an acid and of a base?               |
|       | (A) (i) and (iii)   | (B) (ii) and (iii)  | (C) (i) and (iv)                       | (D) (ii) and (iv)                    |
| (156) | ) Give the IUPAC name   | of CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub> .   |  |                                      |
|       | <ul><li>(A) Ethyl ethanoic acid</li><li>(C) Ethyl ethanoate</li></ul>   |   | (B) Butanoate<br>(D) Ethyl methyl carb | poxylic acid                         |
| (157) | ) Which hormone regulat   | es the ionic balance in the bo  | dy?                                    |                                      |
|       | (A) Insulin   | (B) Thyroxine   | (C) Testosterone                       | (D) Vasopressin                      |
| (158) | <del>-</del>  | ed pea-plant (RRyy) is crosuced in F1 generation are  | sed with a wrinkled                    | yellow seeded pea- plant             |
|       | (A) round and green   |   | (B) round and yellow                   | V                                    |
|       | (C) wrinkled and green  |   | (D) wrinkled and yel                   | low                                  |
|       |   |   |  |                                      |

| (159) In the given foodchain if the amount of energy at the fourth trophic level is 4 kJ, what will be the energy available at the producer level? |  |   |   |   |
|--|--|---|---|---|
|  | $Grass \rightarrow Grasshopper$  | $\rightarrow$ Frog $\rightarrow$ Snake  |   |   |
|  | (A) 4 kJ   | (B) 40 kJ   | (C) 400 kJ  | (D) 4000 kJ   |
| <ul><li>(160) One cannot see through the fog, because</li><li>(A) refractive index of the fog is very high</li><li>(C) fog absorbs light</li></ul> |  | <ul><li>(B) light suffers total reflection at droplets</li><li>(D) light is scattered by the droplets</li></ul>   |   |   |
| (161)  | $\left(\sqrt{3}+2\right)\left(\sqrt{3}-\sqrt{2}\right)=.$  |   |   |   |
|  | (A) $\sqrt{3}$   | (B) $\sqrt{2}$  | (C) 5   | (D) 1   |
| (162)  | $(15)^3 - (9)^3 - (6)^3 = \dots$   |   |   |   |
|  | (A) 1215   | (B) 2430  | (C) - 810   | (D) 810   |
| (163)  | If $x + 3$ is one of the fac   | etors of $x^3 + 2x^2 - ax - 18$ th  | en a =  |   |
|  | (A) - 9  | (B) + 9   | (C) + 3   | (D) - 3   |
| (164)  | Give your opinion for th   | e below statement :- "only or   | ne line can pass throug   | h a single point."  |
|  | (A) True   | (B) False   | (C) Not sure  | (D) Hypothesis  |
| (165) The number of dimensions of a plane is   |  |   |   |   |
| ` /  |  |   |   |   |
| ,  | (A) 1  | (B) 2   | (C) 3   | (D) 0   |
| . ,  | (A) 1  | (B) 2 e supplementary angles and  | (C) 3   |   |
| . ,  | (A) 1<br>If $m \angle A$ and $m \angle B$ are  | (B) 2 e supplementary angles and =  | (C) 3   | $m \angle B = x - 10^{\circ}$   |
| . ,  | (A) 1<br>If $m \angle A$ and $m \angle B$ are then $m \angle A$ and $m \angle B$   | (B) 2 e supplementary angles and $= \dots$ $\leq B = 80^{\circ}$  | (C) 3<br>m $\angle A = x + 10^{\circ}$ and  | $m \angle B = x - 10^{\circ}$ $\angle B = 96^{\circ}$   |
| (166)  | (A) 1<br>If $m \angle A$ and $m \angle B$ are then $m \angle A$ and $m \angle B$<br>(A) $m \angle A = 100^{\circ}$ m $\angle A = 70^{\circ}$ m $\angle A = 70^{\circ}$ m $\angle A = 70^{\circ}$   | (B) 2 e supplementary angles and $= \dots $<br>$\leq B = 80^{\circ}$  | (C) 3<br>$m \angle A = x + 10^{\circ}$ and<br>(B) $m \angle A = 84^{\circ}$ m<br>(D) $m \angle A = 150^{\circ}$ m   | $m \angle B = x - 10^{\circ}$ $\angle B = 96^{\circ}$ $\angle B = 30^{\circ}$                         |
| (166)  | (A) 1<br>If $m \angle A$ and $m \angle B$ are then $m \angle A$ and $m \angle B$<br>(A) $m \angle A = 100^{\circ}$ m $\angle A = 70^{\circ}$ m $\angle A = 70^{\circ}$ m $\angle A = 70^{\circ}$   | (B) 2  e supplementary angles and $= \dots \dots$ | (C) 3<br>$m \angle A = x + 10^{\circ}$ and<br>(B) $m \angle A = 84^{\circ}$ m<br>(D) $m \angle A = 150^{\circ}$ m   | $m \angle B = x - 10^{\circ}$ $\angle B = 96^{\circ}$ $\angle B = 30^{\circ}$                         |
| (166)  | (A) 1<br>If $m \angle A$ and $m \angle B$ are then $m \angle A$ and $m \angle B$<br>(A) $m \angle A = 100^{\circ}$ m $\angle A = 100^{\circ}$ m  | (B) 2 e supplementary angles and $= \dots \dots$  | (C) 3<br>$m \angle A = x + 10^{\circ} \text{ and}$<br>(B) $m \angle A = 84^{\circ} \text{ m}$<br>(D) $m \angle A = 150^{\circ} \text{ m}$<br>In then BD = | $m \angle B = x - 10^{\circ}$ $\angle B = 96^{\circ}$ $\angle B = 30^{\circ}$ cm                      |
| (166)  | (A) 1<br>If $m \angle A$ and $m \angle B$ are then $m \angle A$ and $m \angle B$<br>(A) $m \angle A = 100^{\circ}$ m $\angle A = 100^{\circ}$ m  | (B) 2  e supplementary angles and $=$   | (C) 3<br>$m \angle A = x + 10^{\circ} \text{ and}$<br>(B) $m \angle A = 84^{\circ} \text{ m}$<br>(D) $m \angle A = 150^{\circ} \text{ m}$<br>In then BD = | $m \angle B = x - 10^{\circ}$ $\angle B = 96^{\circ}$ $\angle B = 30^{\circ}$ cm                      |
| (166)<br>(167)<br>(168)  | (A) 1  If $m \angle A$ and $m \angle B$ are then $m \angle A$ and $m \angle B$ (A) $m \angle A = 100^{\circ}$ m $\angle A = 70^{\circ}$ m $\angle A =$ | (B) 2  e supplementary angles and $=$   | (C) 3<br>$m \angle A = x + 10^{\circ} \text{ and}$<br>(B) $m \angle A = 84^{\circ} \text{ m}$<br>(D) $m \angle A = 150^{\circ} \text{ m}$<br>at then BD = | $m \angle B = x - 10^{\circ}$<br>$\angle B = 96^{\circ}$<br>$\angle B = 30^{\circ}$ cm<br>(D) 1       |
| (166)<br>(167)<br>(168)  | (A) 1  If $m \angle A$ and $m \angle B$ are then $m \angle A$ and $m \angle B$ (A) $m \angle A = 100^{\circ}$ m $\angle A = 70^{\circ}$ m $\angle A =$ | (B) 2  e supplementary angles and $=$   | (C) 3<br>$m \angle A = x + 10^{\circ} \text{ and}$<br>(B) $m \angle A = 84^{\circ} \text{ m}$<br>(D) $m \angle A = 150^{\circ} \text{ m}$<br>at then BD = | $m \angle B = x - 10^{\circ}$<br>$\angle B = 96^{\circ}$<br>$\angle B = 30^{\circ}$ cm<br>(D) 1       |
| (166)<br>(167)<br>(168)<br>(169)   | (A) 1  If $m \angle A$ and $m \angle B$ are then $m \angle A$ and $m \angle B$ (A) $m \angle A = 100^{\circ}$ m $\angle A = 1000^{\circ}$ m $\angle A = 1000^{$  | (B) 2 e supplementary angles and $=$  | (C) 3  m $\angle$ A = x + 10° and  (B) m $\angle$ A = 84° m  (D) m $\angle$ A = 150° m  then BD =   | m $\angle$ B = x - 10°<br>$\angle$ B = 96°<br>$\angle$ B = 30°<br>cm<br>(D) 1<br>(D) Four<br>from the |

| (171) | A cuboidal tank measur                                | res 8 m x 6 m x 5 m. Find its | volume in liters.                    |                       |
|-------|---|-------------------------------|--------------------------------------|-----------------------|
|       | $(A) 240  m^3$  |                               | (B) $420 \mathrm{m}^3$               |                       |
|       | $(C) 200 \text{ m}^3$                                 |                               | (D) $20 \mathrm{m}^3$                |                       |
| (172) | The formula to find vol                               | ume of a cone is              |                                      |                       |
|       | $(A) 4\pi r^2$  |                               | (B)2πr                               |                       |
|       | $(C)\frac{1}{3}\pi r^2 h$                             |                               | $(D)\frac{4}{3}\pi r^3$              |                       |
| (173) | The sum of all deviation                              | ns from the mean of a data is | $\Sigma(X_i - \overline{X}) = \dots$ |                       |
|       | (A) 1   | (B) $> 1$                     | (C) 0                                | (D) < 1               |
| (174) | The mean of first five or                             | dd natural numbers is         |                                      |                       |
|       | (A) 3   | (B) 5                         | (C) 4                                | (D) 25                |
| (175) | Find median of 14, 6, 2                               | 2, 13, 9, 15 & 12 is          |                                      |                       |
|       | (A) 12  | (B) 10                        | (C) 2                                | (D) 15                |
| (176) | A card is drawn at a rand<br>the card being a king is | dom from a well shuffled pa   | ack of cards. The proba              | bility of             |
|       | (A) $\frac{1}{52}$                                    | (B) $\frac{1}{26}$            | (C) $\frac{1}{13}$                   | (D) 1                 |
| (177) | The mode of observati                                 | ons 17, 10, 13, 18, 19, 22, 1 | 13, 26, 9, 13 is                     |                       |
|       | (A) 19  | (B) 9                         | (C) 17                               | (D) 13                |
| (178) | An angle in a semicircle                              | e is always a form of         | fangle.                              |                       |
|       | (A) obtuse angle                                      |                               | (B) acute angle                      |                       |
|       | (C) scalene angle                                     |                               | (D) right angle                      |                       |
| (179) | Express $\frac{p}{q}$ form of $0.0$                   | 001 as                        |                                      |                       |
|       | (A) $\frac{1}{999}$                                   | (B) $\frac{1}{99.9}$          | (C) $\frac{1}{9.99}$                 | (D) $\frac{1}{0.999}$ |
| (180) | From the given factor t                               | $ree x + y = \dots$           |                                      |                       |
|       | 3x x 3 x 5 y 2  | 2                             | (A) 4<br>(C) 24                      | (B) 20<br>(D) 80      |

| (181) | ) Which of the following ways you as a science teacher will adopt to analyze the achievement test data or your students?                        |                         |                         |
|-------|---|-------------------------|-------------------------|
|       | (A) Subject and topic wise  | (B) Learning outcom     | e wise                  |
|       | (C) Response in MCQ (Multiple Choice Questions)   | (D) All of the above    |                         |
| (182) | In teaching a topic, "parts of flowers" the method you  | ı will use              |                         |
|       | (A) Lecture method  | (B) Scientific method   |                         |
|       | (C) Discussion method   | (D) Demonstration m     | nethod                  |
| (183) | "A science teacher must have necessary knowledge teaching of his/her subject". What can be most preval  | -                       | •                       |
|       | (A) Lack of facilities, resources, skilled teachers   |                         |                         |
|       | (B) Overcrowded classes and time bound completion   | n of syllabus           |                         |
|       | (C) Lack of autonomy given to teacher to experiment   | innovations             |                         |
|       | (D) All of the above  |                         |                         |
| (184) | What are the three components of the educational pr   | ocess?                  |                         |
|       | (A) Education, teacher and books  | (B) Teacher, student    | and education           |
|       | (C) Teaching, learning and practice   | (D) Direction, instruc  | tion and skill.         |
| (185) | Which is the characteristic of the project method?  |                         |                         |
|       | (A) Problematic act   |                         |                         |
|       | (B) Carried in its natural setting  |                         |                         |
|       | (C) Used for all-round-development of child's persor  | nality.                 |                         |
|       | (D) A voluntary undertaking.  |                         |                         |
| (186) | In a biology class, students are given a set of microsc asked to identify and classify them based on their strubeing promoted in this activity? | -                       |                         |
|       | (A) Observation and measurement   | (B) Prediction and ex   | perimentation           |
|       | (C) Communication and interpretation  | (D) Data analysis and   | l conclusion drawing    |
| (187) | Which of the following is an example of a scientific a  | ttitude that can be pro | moted in the classroom? |
|       | i) Blind acceptance of scientific ideas.  |                         |                         |
|       | ii) Disregard evidence that contradicts a hypothesis.   |                         |                         |
|       | iii) Open-mindedness and willingness to revise hypot  | hesis based on new ev   | ridence                 |
|       | (A) i (B) ii  | (C) iii                 | (D) All of the above    |
|       |   |                         |                         |

| (188) | ) Which of the following a                                 | approaches to teaching scier   | nce in the classroom is o | completely teacher-centered? |  |  |
|-------|--|--------------------------------|---------------------------|------------------------------|--|--|
|       | (A)Hands-on experiment approach                            |                                | (B)Inquiry approach       |                              |  |  |
|       | (C)Expository transmiss                                    | sion approach                  | (D)Discovery appr         | oach                         |  |  |
| (189) | ) The continuous and com                                   | nprehensive evaluation in so   | cience means—             |                              |  |  |
|       | (A) summative and form                                     | native assessment              |                           |                              |  |  |
|       | (B) more frequent test an                                  | nd examination                 |                           |                              |  |  |
|       | (C) routine activities and                                 | d exercises to assess learning | ng                        |                              |  |  |
|       | (D) evaluation of all asp                                  | pects of science               |                           |                              |  |  |
| (190) | ) A scoring guide used to                                  | evaluate the quality of stud   | ents is called            |                              |  |  |
|       | (A) Rubrics  | (B) Checklists                 | (C) Inventories           | (D)Rating scales             |  |  |
| (191) | ) What is the final goal / a                               | nim by study of Science?       |                           |                              |  |  |
|       | (A) Solving of a probler                                   | n                              | (B) Checking of Hy        | ypothesis                    |  |  |
|       | (C) Establishment of Pri                                   | nciples                        | (D) All of above          |                              |  |  |
| (192) | ) Which of the following:                                  | statements is correct?         |                           |                              |  |  |
|       | (A) Deductive approach                                     | n is less effective in primary | & secondary school l      | earners.                     |  |  |
|       | (B) Learning through Inductive approach is time consuming. |                                |                           |                              |  |  |
|       | (C) Deductive approach                                     | emphasizes less on thinkir     | ng/reflection.            |                              |  |  |
|       | (D) All of the above                                       |                                |                           |                              |  |  |
| (193) | ) Arrange following steps                                  | s of Project method in chror   | nological order.          |                              |  |  |
|       | (1) Collection of facts re                                 | elated with problem            |                           |                              |  |  |
|       | (2) Evaluation of projec                                   | t                              |                           |                              |  |  |
|       | (3) Execution of the pro                                   | oject                          |                           |                              |  |  |
|       | (4) Drawing an Outline                                     |                                |                           |                              |  |  |
|       | (A) 1 2 3 4  | (B) 4 3 2 1                    | (C) 2 1 3 4               | (D) 1 4 3 2                  |  |  |
| (194) | ) Which of the following                                   | statements is correct?         |                           |                              |  |  |
|       | (1) In disciplinary appro                                  | oach the focus is more on s    | ubject rather than the p  | process.                     |  |  |
|       | (2) The disciplinary app                                   | oroach does not provide mu     | ch opportunities for stu  | udents' creativity           |  |  |
|       | (3) The disciplinary app                                   | oroach mostly leads to chall   | k & talk based teaching   | g.                           |  |  |
|       | (4) The disciplinary app                                   | oroach requires highly knov    | vledgeable and expert     | teachers.                    |  |  |
|       | (A) 2, 3, 4  | (B) 1, 2, 3                    | (C) 1, 2, 3, 4            |                              |  |  |
|       |  |                                |                           |                              |  |  |

| (A) Memorizing scient  | ific facts   |   |                                |  |  |  |
|--|--|---|--------------------------------|--|--|--|
| (B) Conducting predete   | (B) Conducting predetermined experiments.  |   |                                |  |  |  |
| (C) Engaging in discus   | (C) Engaging in discussion and debates about current scientific issues.                        |   |                                |  |  |  |
| (A) A Only   | (B) B Only   | (C) C Only  | (D)All of the above            |  |  |  |
| (196) What is the role of teach  | cher in lecture – cum – d  | iscussion method?   |                                |  |  |  |
| (A) The teacher must b   | (A) The teacher must be a facilitator  |   |                                |  |  |  |
| (B) The teacher must b   | oe a guide and working   | partner of the students.                                  |                                |  |  |  |
| (C) Encourage student  | to participate actively.   |   |                                |  |  |  |
| (D) None of the above  | 2.   |   |                                |  |  |  |
| (197) Teacher is making stud<br>students deriving that t<br>statement?   |  | ing angles of various trian<br>80. Which principle of tea |                                |  |  |  |
| (A) Proceed from know  | wn to unknown  | (B) Proceed from  | simple to complex              |  |  |  |
| (C) Proceed from con-  | crete to abstract  | (D) Proceed from  | analysis to synthesis          |  |  |  |
| (4) Selecting the rich at (A) 2 1 3 4  | ives and learning goals ational needs flearning experiences to advaluable content  (B) 4 3 2 1 | accomplish these object (C) 3 1 2 4                       | ives                           |  |  |  |
| <ul><li>(199) Arrange following step</li><li>(1) Hypothesis</li><li>(2) Solution</li><li>(3) Modification</li><li>(4) Evaluation</li><li>(A) 2 1 3 4</li></ul> | os of Problem Solving in (B) 4 3 2 1   |   | (D) 1 2 4 3                    |  |  |  |
| (200) The teacher is explaining involved in above teach  |  | ving the human skeleton.                                  | Which principle of teaching is |  |  |  |
| (A) Proceed from who   | ole to part  | (B) Proceed from  | simple to complex              |  |  |  |
| (C) Proceed from con-  | crete to abstract  | (D) Proceed from  | analysis to synthesis          |  |  |  |
|  | •  | <b>* *</b>  |                                |  |  |  |

(195) Which of the following is effective strategy from promoting scientific literacy?



પરીક્ષા પૂરી થયા બાદ ઉત્તરપત્ર (OMR SHEET) ખંડ નિરીક્ષકને ખુલ્લું (કવરમાં મુક્યા વગર) પરત કર્યા બાદ જ પરીક્ષા ખંડ છોડવાનો રહેશે. તેમ કરવામાં કસૂર થયેથી શિસ્તભંગના પગલાં ગણી પરીક્ષા માટે જે તે ઉમેદવારને ગેરલાયક ઠેરવવામાં આવશે.