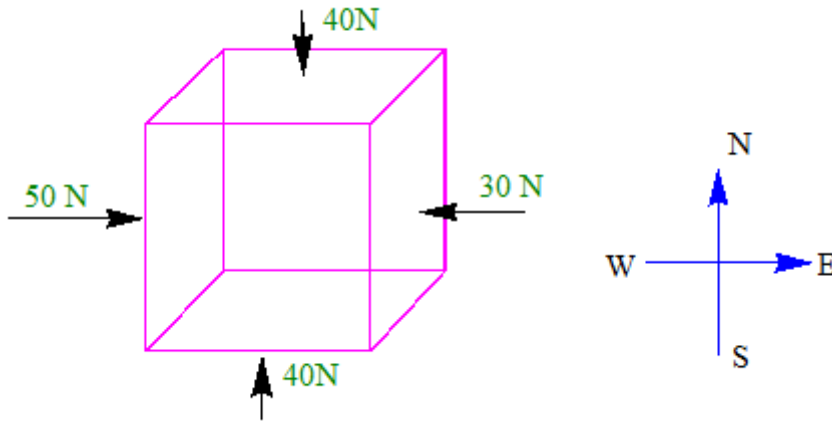


Junior Group

Question 1

WORKING WITH A CUBE

Reshma and Raaga are observing different three-dimensional bodies in their house. They selected a cube and measured its length as 1m. Then they kept it on the floor and applied different forces of known values. Based on their observations answer the following questions:



What are the volume and total surface area of the cube?

- A. 1 cm^3 , 1 cm^2
- B. 1 m^3 , 6 cm^2
- C. 1 cm^3 , 6 cm^2
- D. 10^6 cm^3 , $6 \times 10^4 \text{ cm}^2$

Correct option : D

Question 2

Keeping the cube on the floor, family members applied forces in different directions as shown in the figure above. What is the net force on the cube and its direction?

- A. 20 N, moves Westside
- B. 20 N, moves Eastside
- C. 80 N, moves Eastside
- D. 160 N, moves Eastside

Correct option : B

Question 3

What are the values of pressure acting on the east and west side faces of the cube?

- A. 20 N-m^{-2} , -20 N-m^{-2}
- B. 30 N-m^{-2} , 50 N-m^{-2}
- C. 50 Pascal, 30 Pascal
- D. 50 N-m^{-3} , 30 N-m^{-3}

Correct option : C

Question 4

If the mass of the cube is 200 kg, what is the acceleration of the cube and its direction caused by the four forces?

- A. 0.1 m/s^2 towards North
- B. It does not move $a=0$
- C. 0.1 cm/s^2 towards East
- D. 0.1 m/sec^2 towards East

Correct option : D

Question 5

Rear View Mirror Of Vehicle

The rear-view mirror of a car is a plane mirror. The car is at rest on a highway. A truck is viewed at a distance of 200 m from the mirror approaching the car at a uniform speed of 10 ms^{-1} . When the truck just reaches the car, the car starts moving and attains a uniform speed of 25 ms^{-1} . Now a bus is moving in the opposite direction to the car at a speed of 20 ms^{-1} .

How much time will it take for the truck to reach the car?

- A. 10 s
- B. 15 s
- C. 20 s
- D. 25 s

Correct option : C

Question 6

What is the distance between the truck and its image in the mirror when the truck is at a distance of 150 m from the car?

- A. 75 m
- B. 100 m
- C. 150 m
- D. 300 m

Correct option : D

Question 7

The speed of the image of the bus in the mirror, with respect to the car in ms^{-1} is:

- A. 5
- B. 20
- C. 25
- D. 45

Correct option : D

Question 8

What is the distance between the bus and its image in the mirror after 10 seconds?

- A. 100 m
- B. 250 m
- C. 450 m
- D. 900 m

Correct option : D

Question 9

Cricket Match

In a cricket match between India and South Africa, the Indian batsman defends a ball of mass m kg from the South African bowler, which is thrown with a speed of X m/s. After striking the bat, the ball bounces back at the same speed. The time of impact was Y seconds.

The average force exerted by the batsman on the ball is :

- A. Zero
- B. $(2mY / X)$ kgm/s²
- C. $(2XY / m)$ kg m/s²
- D. $(2mX / Y)$ kgm/s²

Correct option : D

Question 10

What is the impulse?

- A. Zero
- B. $(2mX)$ N-S
- C. $(2mY)$ N-S
- D. (Y / X) N-S

Correct option : B

Question 11

When a fielder takes a catch, he moves his hands back to:

- A. Reduce friction
- B. Obey the inertia of rest
- C. Increase the time of impact
- D. Decrease the time of impact

Correct option : C

Question 12

If the batsman sends the ball in the same direction (scoop shot) , then the change in momentum of the ball is:

- A. Zero
- B. $(2mX)$ kg-m/s
- C. $(2mY)$ kg-m/s
- D. (Y/X) kg-m/s

Correct option : A

Question 13

Animal Fibre

Wool is obtained from wool yielding animals that bear hair on their body such as sheep, goat, yak and some others. Wool is also obtained from the undercoat of goats in Kashmir, as also the fur on a camel's body. Hair traps air and keeps the animals warm. Selective breeding is done to obtain a special type of soft wool. Many people earn their livelihood from the wool industry and are thus exposed to some occupational hazards.

Sorter's disease is an occupational hazard caused by:

- A. bacterium, *Escherichia coli*
- B. bacterium, *Bacillus anthracis*
- C. bacterium, *Salmonella*
- D. bacterium, *Helicobacter pylori*

Correct option : B

Question 14

Oil cakes are made of:

- A. fresh oil seeds
- B. stale oil seeds
- C. material before removing oil
- D. material after removing oil

Correct option : D

Question 15

Physical and Chemical Change

Change is part of life. We experience different changes around us, such as burning of LPG for cooking purpose is our everyday experience. We observe steam rise from the surface of boiling water in a pot. If we hold a lid above the pot, vapours change into water droplets. Rusting of vehicles is another common observation.

A magnesium strip is added to zinc sulphate solution. This is a:

- A. chemical and irreversible change
- B. physical and irreversible change
- C. chemical and reversible change
- D. physical and reversible change

Correct option : A

Question 16

Which one of the following is a physical change:

- A. magnesium is added to aqueous copper sulphate solution
- B. a wax candle burns at room temperature
- C. turmeric stain on white cloth turns red on washing with soap
- D. aqueous copper sulphate is heated and then cooled slowly

Correct option : D

Question 17

Select a change which is physical as well as chemical:

- A. iron blade is placed in a copper sulphate solution
- B. baking soda is added to vinegar
- C. a wick dipped in pure ghee burns, giving light and heat
- D. iron powder is heated with sulphur

Correct option : C

Question 18

Red Cabbage

Acidic, basic, and neutral nature of chemical substances can be determined by cabbage leaves, which is a natural indicator. Leaves of red cabbage are mixed in a blender half-filled with water. You will get a purple coloured juice. Filter it and use it as an indicator. Acids change purple colour to red or pink and bases turn purple colour to green. A neutral solution will retain the purple colour.

If limewater is taken in three test tubes and tested with phenolphthalein, red cabbage juice and china rose juice respectively, the sequence of colours will be:

- A. colourless, green, magenta
- B. colourless, green, green
- C. pink, green, green
- D. pink, green, magenta

Correct option : C

Question 19

Oxides of P and Q are dissolved in water. They are tested with red cabbage juice and phenolphthalein indicator respectively. Pink colour is obtained in both cases. Identify P and Q :

- A. P is phosphorous and Q is sulphur
- B. P is phosphorous and Q is potassium
- C. P is potassium and Q is phosphorous
- D. P is magnesium and Q is sodium

Correct option : B

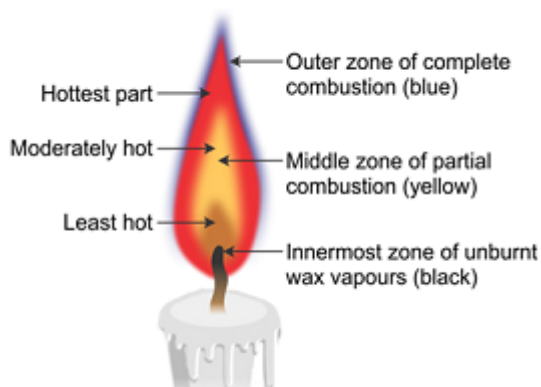
Question 20

A window cleaner gives green colour on using red cabbage indicator. Addition of which of the following compounds will change it to purple?

- A. Ammonium hydroxide
- B. Magnesium hydroxide
- C. Sodium chloride
- D. Vinegar

Correct option : D

Question 21



See the illustration above. Which of the following does not take place in the innermost zone?

- A. melted wax vaporises
- B. wax vapours collect around the wick
- C. combustion of wax vapours
- D. wax vapours are not in contact with air

Correct option : B

Question 22

To melt silver, it is heated in:

- A. outermost zone
- B. middle zone
- C. red-orange flame
- D. middle zone to increase it's shine

Correct option : A

Question 23

The brightest zone with orange-red flame is:

- A. a luminous zone with complete combustion
- B. a nonluminous zone with complete combustion
- C. partly burnt particles in a dark zone that are incompletely burnt
- D. partly burnt particles in a dark zone that are completely burnt

Correct option : C

Question 24

Zone of complete combustion and zone of no combustion respectively are:

- A. luminous and nonluminous zones
- B. dark and luminous zones
- C. nonluminous and dark zones
- D. luminous and dark zones

Correct option : C

Question 25

Nutrition and food components

Food is an essential source of major biomolecules, vitamins and minerals. However, children are highly choosy in their food intake. Often they skip taking a balanced diet and prefer junk food. Mini visited a doctor with her father. After talking to Mini for some time about her food preferences, the doctor decided to frame the following questionnaire for Mini to explain to her the importance of different food constituents.

Which of the following food component is most essential for building immunity?

- A. Carbohydrate
- B. Protein
- C. Lipids
- D. Minerals

Correct option : B

Question 26

A student is suffering from partial loss of vision, which is aggravated at night. He is all likely to suffer from a deficiency of:

- A. Vitamin A
- B. Vitamin B
- C. Vitamin C
- D. Vitamin D

Correct option : A

Question 27

If a child has bleeding gums and his wounds usually take long time to heal, he is suffering from:

- A. Scurvy
- B. Rickets
- C. Anemia
- D. Goiter

Correct option : A

Question 28

A child is suffering from Beriberi. The most prominent symptom in him would be:

- A. Loss of partial or complete vision
- B. Weak muscles and lack of energy
- C. Weak bones and tooth decay
- D. Bones become soft and bent

Correct option : B

Question 29

Respiration in Animals

Respiration is an energy yielding process by which the simplified food is burnt completely or partially to yield carbon dioxide or its derivatives, water and energy. Respiration can broadly be aerobic and anaerobic. The oxidation at cellular level is called cellular respiration. Now answer the following questions related to respiration.

Which of the following statements related to muscle cell is true?

- A. Muscles only respire by aerobic respiration
- B. Muscle always respire anaerobically
- C. Muscles can respire anaerobically for some time
- D. Muscle cells do not respire at all

Correct option : C

Question 30

In which of the following the diaphragm shows limited movement or does not move at all:

- A. In all females
- B. In all males
- C. In pregnant females
- D. In smokers

Correct option : C

Question 31

The respiratory organs of insects are called:

- A. trachea
- B. spiracles
- C. gills
- D. book-lungs

Correct option : A

Question 32

During alcohol fermentation in yeast, the alcohol is formed from _____?

- A. Lactic acid
- B. Pyruvic acid

- C. Formic acid
- D. Maleic acid

Correct option : B

Question 33

The oxygen cylinders, used for artificial breathing, contain which of the following major gases?

- A. Only O₂
- B. O₂ and CO₂
- C. O₂ and N₂
- D. O₂ and CO

Correct option : C

Question 34

Environment and Climate

Many human activities like industrialization have led to a progressive increase in the pollution of water, air and other resources of the earth. However, nature itself has tremendous potential of self-healing, which was recently witnessed during the global lockdown due to COVID-19 disease. May it be self-restoration in the water quality of Ganga and Yamuna, or the visual appearance of the Himalayan ranges from Himachal Pradesh and Punjab. This has again reiterated the universal fact that even small practices at individual level can have great impact in contributing to the prevention of pollution of natural resources. In this light, answer the following questions on pollution and its prevention.

The maximum and the minimum temperature in Delhi during summers decreased by 2 degree C this year (2020). Reduction in the level of which of the following gases would have maximally contributed to this reduction:

- A. Oxygen
- B. Carbon dioxide
- C. Nitrogen oxide
- D. CFC

Correct option : B

Question 35

Given below are a few results of pollution. Which of the following has a direct impact on the beauty of Taj Mahal?

- A. Acid rain
- B. Global warming
- C. Air pollution
- D. Cold waves in Agra

Correct option : A

Question 36

You saw a pond near your village that was full of algae and looked green. What would be your conclusion from this observation:

- A. This is natural and all ponds should look green due to aquatic algae
- B. This is good, as the water is clean and the algae will produce more oxygen
- C. This is a result of water pollution, as the manure from nearby paddy field have reached here
- D. This is a result of water pollution, as leaching pesticides have killed the animals and have helped algae grow

Correct option : C

Question 37

In 2020, an ozone hole above the earth's polar atmosphere healed. Which of the following statements is true about the healing of the ozone hole?

- A. The healing was unrelated to the COVID-19 lockdown
- B. The healing was sudden and enhanced due to the Covid-19 lockdown
- C. The healing occurred in the Southern Hemisphere
- D. The healing occurred in the atmosphere of the equator

Correct option : A

Question 38

In a school in Jaipur, there is a prize for selling the maximum number of tickets for the school carnival. Radha, Ratna and Rashmi are the leaders. Radha sold 57 tickets in the first week, 65 in the second week and 78 in the third week. Ratna sold 65 tickets in the first week, 78 in the second week but had a disappointing third week, with only 57 sold. Rashmi's sale of tickets was, 78 in first week, 65 in second week, and 57 in third week.

Who wins the prize?

- A. Radha
- B. Ratna
- C. Rashmi
- D. Radha, Ratna and Rashmi

Correct option : D

Question 39

The above question is an example of which property of addition?

- A. BClosure
- B. Associative
- C. Commutative
- D. Distributive

Correct option : B

Question 40

If the total number of tickets are 1500, then the percentage of tickets sold by Ratna in second week is:

- A. 5.2 %
- B. 5.9 %

- C. 6.2 %
- D. 6.6 %

Correct option : A

Question 41

If they deposited the money after selling their tickets per week, and the cost of one ticket is Rs.75, then the amount deposited by them in the second week is:

- A. Rs 11200
- B. Rs 12600
- C. Rs 15600
- D. Rs 18600

Correct option : C

Question 42

THE DOCTORS ADVICE

Amit is a software developer in Bangalore. Due to COVID-19, he was working from home. One day he felt uneasy and went to a doctor. The doctor advised him to walk in the morning everyday. He followed the doctors advice and started walking in a park every morning. The perimeter of rectangular park is equal to that of a square with area 4096 square metres(Sq.m).

If the rectangular park is 82 m long, then the breadth of the park is:

- A. 29 m
- B. 42 m
- C. 46 m
- D. 49 m

Correct option : C

Question 43

How many times will Amit have to walk around the park to cover a distance of 2048 m?

- A. 4 times
- B. 8 times
- C. 16 times
- D. 32 times

Correct option : B

Question 44

The area of the 2m wide path constructed along the parks border park is:

- A. 248 m.sq.
- B. 350 m.sq.
- C. 496 m.sq.
- D. 532 m.sq.

Correct option : C

Question 45

If each bottle palm plant requires 36 m^2 area, then the cost of planting bottle palms in the remaining portion of the park at the rate of Rs 225 per plant is:

- A. Rs 20,375
- B. Rs 20,475
- C. Rs 20,575
- D. Rs 20,675

Correct option : B

Question 46

If the measure of sides of a square and an equilateral triangle are equal, then the ratio between their area is:

- A. $4:\sqrt{3}$
- B. $\sqrt{3}:4$
- C. $\sqrt{4}:3$
- D. $2:4$

Correct option : A

Question 47

MONEY FOR BUYING SEEDS

Gaurav is a farmer. He lives in a village. He needs some money for buying vegetable seeds. He sells one quintal of wheat for Rs 1848 and earns a profit of 12%. By selling one quintal of rice for the same amount he loses 12 %.

The C.P. (cost price) of rice is:

- A. Rs 1396
- B. Rs 1650
- C. Rs 2100
- D. Rs 2248

Correct option : C

Question 48

The gain or loss percentage in the whole transaction is:

- A. 1.36%
- B. 1.44%
- C. 1.52%
- D. 1.60%

Correct option : B

Question 49

Which one is the correct formula to calculate loss % ?

- A. Loss % = profit x 100 / C.P.
- B. Loss % = loss x 100 / S.P.
- C. Loss % = loss x 100 / C.P.
- D. Loss % = C.P. x S.P. / loss

Correct option : C

Question 50

In order to gain a profit of 12% on rice too, the selling price of rice will be:

- A. Rs 2352
- B. Rs 2498
- C. Rs 2546
- D. Rs 2638

Correct option : A

Question 51

Three essential components of Ayurvedic treatment are _____.

- A. Vata, pitta, kapha
- B. Medicine, diet and behaviour
- C. Body, mind and self
- D. Pranayama, panchakarma and prarthana

Correct option : B

Question 52

Select the correct pair:

- A. Catabolic – Building up
- B. Marrow - Mamsa
- C. Anabolic – Breaking down
- D. Chyle – Rasa

Correct option : D

Question 53

Select the correct pair.

- A. Susruta - Sterilisation of equipment
- B. Sarangdhara– Management of urinary calculi
- C. Caraka – Genetic disorders
- D. VisvanathaSena - Paediatrics

Correct option : A

Question 54

Ayurveda suffered a setback during _____.

- A. Mughal rule
- B. Portuguese rule
- C. Colonial rule
- D. Qutb Shahi rule

Correct option : C

Question 55

Ayurveda also represents Life Sciences like Botany, Zoology, Veterinary Science and Agriculture along with medicine. Plant science was known as _____

- A. Vrksayurveda
- B. Mrgayurveda
- C. Asvayurveda
- D. Gajayurveda

Correct option : A

Question 56

Which old textbook of veterinary medicine classifies horses?

- A. Vrksayurveda of Salihotra
- B. Mrgayurveda of Salihotra
- C. Hayayurveda of Salihotra
- D. Gajayurveda of Salihotra

Correct option : C

Question 57

Animals were classified in various ways in Ayurveda. Which type of animals were described as Viskira?

- A. Peckers
- B. Prey snatchers
- C. Attackers
- D. Grazers

Correct option : A

Question 58

Who invented Zero ?

- A. Greeks
- B. Germans
- C. Indians
- D. Chinese

Correct option : C

Question 59

The famous iron pillar in Delhi is famous for _____

- A. Astronomical calculations
- B. Historical British monument
- C. Rust free material
- D. Freedom fighting movement

Correct option : C

Question 60

Patterns of rock art such as a double sun or concentric circles found in _____ have convinced some scholars that they were depictions of a supernova and meteor showers respectively.

- A. Kashmir
- B. Patna
- C. Banaras
- D. Delhi

Correct option : A

Question 61

Beginning of 5th century CE is considered as _____

- A. Era of mathematics
- B. Era of Vedanga Jyotish
- C. Siddhanta era
- D. Calendars and panchanga era

Correct option : C

Question 62

_____ is considered as India's first urban development.

- A. East Indian civilization
- B. Harrapan civilization
- C. Mughal civilization
- D. British rule in India

Correct option : B

Question 63

Sulbasutras were the manuals for the construction of _____.

- A. Buildings
- B. Temples

- C. Fire altars
- D. Forts

Correct option : C

Question 64

_____ who lived in the court of Rashtrakuta kings dealt with finite series, expansions of fractions, permutations and combinations.

- A. Mahavira
- B. Sridhara
- C. Bhaskara
- D. Nilkantha

Correct option : A

Question 65

Archaeological excavations tell us about metal works in the ancient world that had kept their furnaces fired up for thousands of years by renewably utilizing stretches of _____.

- A. Paddy fields
- B. Forest land
- C. Sea
- D. Sand

Correct option : B

Question 66

The medieval mathematician who founded a continuous chain of the guru–shishya parampara from fourteenth to eighteenth-century is:

- A. S N Bose
- B. Aryabhata
- C. Sangamagrama Madhavan
- D. Varahamihira

Correct option : C

Question 67

Which yantra was used for fumigation of gold or silver foils with fumes of sulphur or other substances.

- A. Dola
- B. Dhupa
- C. Svedani
- D. Koshti

Correct option : B

Question 68

_____ Brhat Samhita, an encyclopaedia of sorts composed in the 6th century CE, has a chapter on the preparation of numerous perfumes out of sixteen fundamental substances mixed in different proportions.

- A. Bhaskaracharyas
- B. Aryabhatta's
- C. Charaka's
- D. Varahamihira's

Correct option : D

Question 69

Many bronze figurines of humans (the well-known 'Dancing Girl', for instance) and animals (rams, deer, bulls...) have been unearthed from _____.

- A. Harappan sites
- B. Himachal
- C. Nalanda
- D. Kerala

Correct option : A

Question 70

In 1924, Satyendra Nath Bose published an article titled 'Max Planck's Law and Light Quantum Hypothesis'. This article was sent to _____, who appreciated it so much that he himself translated it into German and sent it for publication to a famous periodical in Germany—Zeitschrift fur Physik.

- A. Max Planck
- B. Albert Einstein
- C. Enriko Fermi
- D. Stephen Hawking

Correct option : B

Question 71

India has a long tradition of timekeeping dating back to Vedic period. Which of the following aspects of the *pancānga* / almanac came in use only after 700 BC?

- A. Tithī
- B. Vāra
- C. Nakṣatra
- D. Yoga

Correct option : D

Question 72

Which one of the following statements is false?

- A. Pluto is a dwarf planet.
- B. Pluto's orbit is circular.

- C. Plutos orbit is the most eccentric than that of any other planet.
D. Plutos orbit intersects the orbit of Neptune.

Correct option : B

Question 73

Venkatesh Bapuji Ketkar was a multifaceted person. In addition to his passion for astronomy, panchang, literature, sculpture, drawing, and music, he was fluent in the following languages in addition to Marathi and English:

- A. Kannada, Telugu, Portuguese and French
B. Kannada, French, Sanskrit, and Bengali
C. Kannada, Tamil, Spanish and Sanskrit
D. Kannada, Spanish, Gujarati and Sanskrit

Correct option : B

Question 74

Vedic Chronology and Vedāng Jyotiṣa is a book written by:

- A. Venkatesh Bapuji Ketkar
B. Lokmanya Tilak
C. Kero Lakshman Chhatre
D. Keshav Daivajna

Correct option : B

Question 75

Which of the following match is correct?

- A. *Āryabhatta - Goladvayapraśnavimarsh*
B. *Varāhamihira - Pancasiddhāntikā*
C. *Ganesh Daivadnya- Surya Siddhānta*
D. *Bhāskarācārya- Grahaganit*

Correct option : B

Question 76

Ketkar had accurately predicted the following:

- A. Existence of the ninth planet and its distance from the Sun
B. Existence of the ninth planet and its distance from the Earth
C. Existence of the tenth planet and its distance from the Sun
D. Existence of the tenth planet and its distance from the Earth

Correct option : A

Question 77

Which of the following are books written by Ketkar?

1 *Jyotirganit*

2 *Grahasādhan*

3 *Siddhānt Shiromanī*

4 *Nakśatra Vidnyan*

- A. 1 and 2
- B. 2 and 4
- C. 1 and 4
- D. 2 and 3

Correct option : C

Question 78

Which of the following statements is false?

- A. Ketkar wrote the book, *Nakśatra Vidnyān*
- B. Ketkar started his own *pancānga* called, *Ketaki pancānga*.
- C. Ketkar's book *Grahalāghav* obtained tremendous fame.
- D. Ketkar obtained *Bai Manik Bairamji Jijibhoy* award.

Correct option : C

Question 79

Many Indian festivals are based on:

- A. The position of the moon in the sky
- B. The position of the sun in the sky
- C. The solar eclipses
- D. The lunar eclipses

Correct option : A

Question 80

In the case of Indian National Calendar, which of the following is false?

- A. It is the official calendar of India
- B. It is a lunar calendar
- C. New Year begins on 22nd March as per the Gregorian calendar
- D. It is used for gazette of India

Correct option : B

Question 81

Which celestial phenomenon is used for defining a month?

- A. One revolution of the Earth around the Sun
- B. One revolution of the Moon around the Earth
- C. One rotation of the Earth
- D. One rotation of the Moon

Correct option : B

Question 82

One *Ahorātra* means ____ *Muhūrtas* which is equal to ____ *Ghatikās*.

- A. 24, 48
- B. 48, 24
- C. 60, 30
- D. 30, 60

Correct option : D

Question 83

According to Indian chronometry, which celestial Body is the *Dinādhipati* of *Somavāra*?

- A. Saturn
- B. Mercury
- C. Moon
- D. Jupiter

Correct option : C

Question 84

The period of fortnight in which the western front of the moon gets illuminated gradually is called:

- A. Kriṣṇa Pakṣa
- B. Śukla Pakṣa
- C. Śukla pūrṇimā
- D. Kriṣṇa pūrṇimā

Correct option : B

Question 85

What is the name of the eighth nakṣatra?

- A. Puṣya
- B. Asvinī

- C. Āśleṣa
- D. Maghā

Correct option : A

Question 86

For the purpose of chronometry, the orbit of the Moon around the Earth was divided into parts. What is the number of these parts?

- A. 21
- B. 24
- C. 25
- D. 27

Correct option : D

Question 87

Amānt is the month that ends with:

- A. Full moon
- B. Half moon
- C. New Moon
- D. Crescent Moon

Correct option : C

Question 88

It is 11.30 pm on 25th May 2025 at Greenwich. What time will it be in India?

- A. 5.00 am on 26th May 2025
- B. 5.30 am on 26th May 2025
- C. 6.00 pm on 25th May 2025
- D. 6.30 pm on 25th May 2025

Correct option : A

Question 89

Who represented India in a meeting of United Nations Economics and Social Council held in 1954 to make the Universal Calendar?

- A. Dr. Homi Bhabha
- B. Dr. Meghnad Saha
- C. Dr. P. C. Ray
- D. Dr. Vikram Sarbhai

Correct option : B

Question 90

According to the Indian national calendar published by the Government of India, a new day begins at:

- A. Sunrise
- B. Sunset
- C. Midnight
- D. Midday

Correct option : C

Question 91

Choose the correct answer for the expression, $21:3::574:p$

- A. 23
- B. 82
- C. 97
- D. 113

Correct option : B

Question 92

If orange is called blue, blue is called red, red is called yellow, yellow is called green, green is called black, black is called violet and violet is called orange, what would be the colour of blood?

- A. Red
- B. Green
- C. Black
- D. Yellow

Correct option : D

Question 93

If, $a + b > c + d$ and $b + c > a + d$, then it is definite that:

- A. $d > b$
- B. $c > d$
- C. $a > d$
- D. $b > d$

Correct option : D

Question 94

Which letter is missing in the empty square?

B	G	F
J	L	O
L	S	?

- A. C
- B. D
- C. U
- D. V

Correct option : C

Question 95

If BREEZE is related to CYCLONE , DRIZZLE is related to ---

- A. Earthquake
- B. Storm
- C. Flood
- D. Downpour

Correct option : D

Question 96

If A is the father of X , B is the mother of Y, the sister of X and Z is Y. Which of the following statements is incorrect:

- A. B is the mother of Z
- B. X is the sister of Z
- C. Y is the son of A
- D. B has one daughter

Correct option : C

Question 97

In a certain language HOCKEY is coded as NGJBXD. Then how is TENNIS coded?

- A. DSMMRH
- B. DMSMRH
- C. DMMSRH
- D. MSMSHR

Correct option : A

Question 98

In a row of letters, a letter is 5th from the left end and 12th from the right end. How many letters are there in a row?

- A. 15
- B. 16
- C. 17
- D. 18

Correct option : B

Question 99

Find the number of days from 26th January 2021 to 23rd September 2021, inclusive of both days:

- A. 214
- B. 231
- C. 239
- D. 241

Correct option : D

Question 100

Nishtha starts at point T, walks straight to point U which is 4 ft away. She turns left at 90° and walks to W, which is 4 ft away, turns 90° right and goes 3 ft to P, turns 90° right and walks 1 ft to Q, turns left at 90° and goes to V, which is 1 ft away and once again turns 90° right and goes to R, 3 ft away. What is the distance between T and R?

- A. 4 ft
- B. 5 ft
- C. 7 ft
- D. 8 ft

Correct option : D