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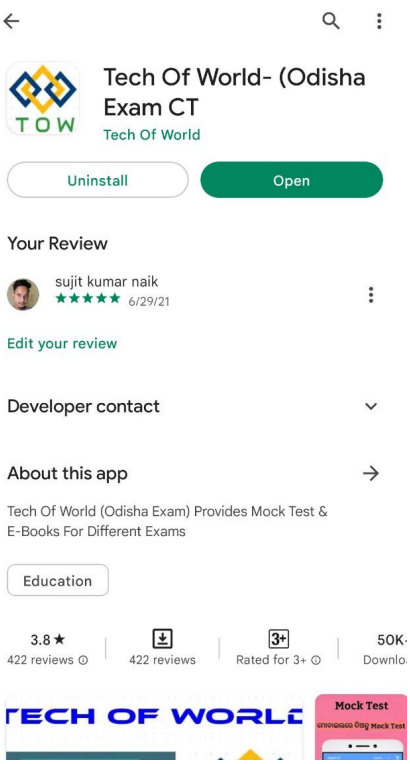

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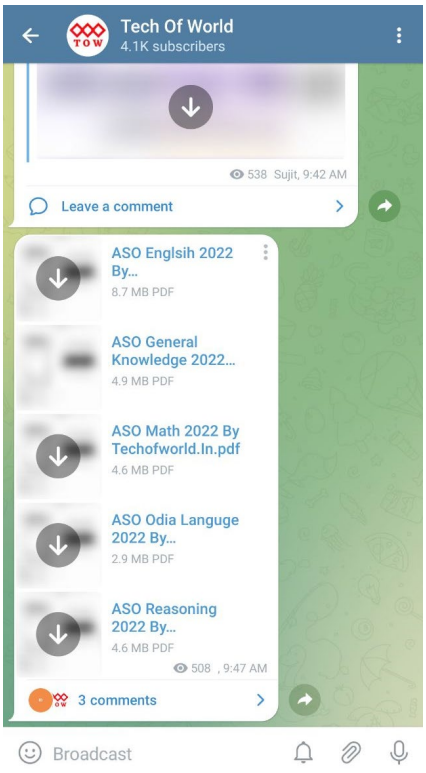

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* Correct Answer is in Bold and slightly bigger
* Candidate selected option is Underlined

English Language

Q2792680 The pair of words given in capitalized letters is related in some way. From the options, choose the pair that exhibits the most similar relationship to the given pair.

FOX : CUB

Score Obtained : -0.25

A) frog : chick
B) horse : pup
C) fish : fry
D) goat : infant

Q2792696 Fill in the blank with the correct spelling from among the given options.

There is no _____ that can cure brain tumor immediately.

Score Obtained : -0.25

A) pannacea
B) panacea
C) panecea
D) penecea

Q2790444 *Read the following passage and answer the questions based on the information provided in the passage.*
The gramophone is so common now, that we have ceased to wonder at it. Yet, it is a truly wonderful invention; and even now, if we give it a thought, we cannot help marvelling that it is possible to catch such a fleeting thing as sound, and record it in such a way that it can be repeated and reproduced at will, so that we can actually hear the very words and the tones of the voice of a man who died, it may be, years ago.

The uses of the gramophone, or talking-machine, are many. Its main use is to give pleasure- all the pleasure that music can give. It is a great boon to music lovers who have little opportunity of hearing good music, such as those who live in small country places, or in foreign lands far from civilizations. Such people can listen to the voices of the greatest singers and the finest orchestras of the day; for the gramophone is now so perfect that a good machine reproduces the finest shades of tone and expression of human voice and of musical instruments.

It has, too, its educational uses, especially in teaching music and singing. A singer, by listening to a song sung by some great master, can learn how that song should be sung; and he can have the song repeated over and over again, until he has mastered it.

Q2790447 Music lovers feel that it is a boon because they

Score Obtained : 1.0

A) like to listen to particular music
B) cannot afford to buy it
C) live in a different civilization
D) have little opportunity to listen to good music

Q2790449 The gramophone helps the singers in

Score Obtained : 1.0

A) Listening to special music
B) repeating the song to attain mastery
C) listening to religious songs

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D) learning special subjects

Q2790445 The gramophone is a wonderful invention because _____

Score (

A) It reproduces the exact picture
B) It is common these days
C) It is used to capture the voice of a person who is dead
D) It catches fleeting things such as sound

Q2790448 On the gramophone we listen to

Score

A) voices of greatest singers and finest orchestras
B) shades of tone
C) expressions of human voice
D) far off songs

Q2790446 The main use of a gramophone is to

Score

A) give pleasure
B) record tones
C) produce sound
D) reduce boredom

Q2792662 Fill in the blanks with the most appropriate words.

Despite the freezing cold, she came to the event in a _____ dress and started shivering; she realized almost immediately that it was a _____ mistake.

Score (

A) shear, shear
B) shear, sheer
C) sheer, sheer
D) sheer, shear

Q2792704 The suffix 'sion' in the word division means

Score

A) lack of
B) position held
C) state or being
D) full of

Q2792646 Identify the meaning of the highlighted idiom - **Let sleeping dogs lie**

Score

A) Leave things as they are
B) Reveal a top secret
C) Have a short light sleep
D) Listen to things intently

Q2791166 The Indian Institute of Teacher Education (IITE), established in 2010 is a brainchild of

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Score Obtained : 0.0

A) Shri. Narendra Modi
B) Shri. Chandrababu Naidu
C) Shri. Rajiv Gandhi
D) Smt. Mamata Banerjee

Q2791078 January 26th was specifically chosen as the 'date of commencement' of the Indian Constitution because on this day in 1930 it was celebrated as

Score Obtained : 0.0

A) Satyagraha Day
B) Quit India Movement Day
C) Dandi March Day
D) Purna Swaraj Day

Q2791144 Identify the organization which was established by the UGC in September 1994 for evaluating the performance of the Universities and Colleges in India.

Score Obtained : 0.0

A) National Assessment and Accreditation Council
B) Council for Higher Education Accreditation
C) Organization of Accreditation service
D) National Board of Perfect Accreditation

Q2791096 Which chemical is responsible for the pungent smell of mustard oil?

Score Obtained : 0.0

A) Alpha-linolenic acid
B) Allyl isothiocyanate
C) Oleic acid
D) Erucic acid

Q2791158 NPTEL is an initiative by seven IITs and IISc for creating course contents in engineering and science.What does NPTEL stand for?

Score Obtained : 0.0

A) National Programme on Teaching Enriched Learning
B) National Programme on Training Employed Learning
C) National Programme on Technology Enhanced Learning
D) National Programme on Technology Extended Learning

Q2791329 The average of marks of three batches of 55, 35 and 15 candidates is 50, 10 and 20 respectively. The average marks of all the candidates is

Score Obtained : 1.0

A) 37.38
B) 35.38
C) 38.38
D) 32.38

Q2791365 Choose the conclusion/conclusions that follow the given statements by selecting a right option.

Statements:

All cities are countries.

All towns are countries.

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Conclusions:

I) All cities are towns.

II) Some towns are cities.

Score Obtained : 1.0

A) None of the conclusions follow
B) Both I and II follows
C) Only II follows
D) Only I follows

Q2792738 Given below a question followed by 2 statements numbered (I) and (II). Choose the statement/statements required to answer the question by selecting a relevant option.

Question: What is the meaning of 'ze' in the code language?

Statements:

I. 'ze ma na' means 'Which is good' in the code language
II. 'ma ye na' means 'That is good' in the code language

Score Obtained : 1.0

A) Statements (I) and (II) TOGETHER are NOT sufficient
B) Statement (I) ALONE is sufficient, but statement (II) alone is NOT sufficient
C) Statement (II) ALONE is sufficient, but statement (I) alone is NOT sufficient
D) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient

---

Q2791345 If FLING is coded as UORMT, how will STICK be coded in the same code?

Score Obtained : 1.0

A) RSHBJ
B) VWLFN
C) TUJDL
D) HGRXP

Q2792722 Raja walks in South direction for 45 Kms. After that he turns to North direction and walks for another 5 Kms and finally he turns to West direction and walks for 9 Kms. How far is he from the starting point and which direction is he with respect to the starting point?

Score Obtained : -0.25

A) 41 Kms, South-West
B) 49 Kms, South-West
C) 59 Kms, South-East
D) 51 Kms, South-East

Q2792794 A scientist who is good in his/her subject, very thorough with scientific principles, and yet does not see the interrelatedness in the field with rest of the things around, in the patterns of life in the universe lacks

Score Obtained : 0.0

A) Emotional perspective
B) National perspective
C) Cognitive perspective
D) International perspective

Q2792746 Psychologist Walter Doyle created six characteristics that reflect a classroom's complexity. Which of the following are the charecteristics?

Score Obtained : 1.0

A) Multidimensional and simultaneous
B) Controlled and easy

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C) Predictable and ordered
D) Managed and quiet

Q2792822 In designing the curriculum it's important to keep in ind that the primary years of schooling should focus on real - life experiences that surround children. Learning about animals and their habitats, numbers and operations on them, about family structure etc. become the content of the material students learn during these years. This is because children in these stages exhibit

Score Obtained : 0.0

A) An ability to think abstractly and generalise the results
B) Perception dominating children's thinking
C) Usage of the senses and motor capacity to make sense of the world
D) An ability to think logically about concrete objects

Q2792789 The taxonomy of educational objectives developed by the NCERT has classified development of the ability to make moral judgements in children under

Score Obtained : 0.0

A) social domain
B) affective domain
C) skill domain
D) cultural domain

Q2791228 Select the programme to which NCTE never notified the revised Regulations and Norms and Standards in the year 2014.

Score Obtained : 1.0

A) Diploma in elementary education programme through Open and Distance Learning System leading to Diploma in Elementary Education (D.El.Ed.)
B) Bachelor of education programme 3-year (Part Time) leading to Bachelor of Education (B.Ed.) degree
C) Diploma in pre-primary education programme through Distance Learning System leading to Diploma in Secondary Education (D.SEd.)
D) 3-year Integrated programme leading to B.Ed., M.Ed. (Integrated) Degree

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Q2791181 Which year was declared as the International Year of the Disabled Persons (IYDP) ?

Score Obtained : 0.0

A) 1982
B) 1983
C) 1980
D) 1981

Q2792818 Which of the following is NOT an example of INNATE learning?

Score Obtained : 0.0

A) Analysing a poem
B) Recognising paths
C) Recognising relationships
D) Acquisition of language

Q2792742 Which of the following research methods would be most suitable to assess the impact of homework submissions on learning?

Score Obtained : 1.0

A) Correlational
B) Descriptive
C) Action
D) Experimental

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Q2791221 NAAC has certain points on which grading is done. Identify which of the following is NOT a point.

Score Obtained : 0.0

A) Research publications
B) Research scholars
C) Promotion of research
D) Research facilities

Q2791215 Who among the following is normally given the remedial teaching?

Score Obtained : -0.25

A) Students who are backward in a certain subject.
B) Students who are mentally challenged.
C) Students who are creative and innovative.
D) Students who are aggressive in the class.

Q2792602 Which of the following ions undergo disproportionation?

Score Obtained : 0.0

A) $(ClO_3)^-$ and $(OCl)^-$
B) $(ClO_4)^-$ and $(OCl)^-$
C) $(ClO_4)^-$ and $(ClO_3)^-$
D) $(ClO_4)^-$ and $(Cl)^-$

Q2791644 An orbital with l = 0 is

Score Obtained : 0.0

A) spherically symmetrical
B) symmetrical about y-axis only
C) symmetrical about x-axis only
D) unsymmetrical

Q2791642 How many molecules are present in one gram of hydrogen?

Score Obtained : -0.25

A) 2.5×10^{23}
B) 3.01×10^{23}
C) 6.02×10^{23}
D) 1.5×10^{23}

Q2791721 A fuse wire with radius of 0.02 mm blows with a current of 5A. What is the current required to blow another fuse wire of the same material which has a radius of 0.04 mm?

Score Obtained : 0.0

A) 14.1 A
B) 22.3 A
C) 37.8 A
D) 5. 5 A

Q2791677 Two bodies of masses 0.1 kg and 0.4 kg respectively move towards each other at 1 m/s and 0.1 m/s. After collision, they stick together. In 10 seconds the combined mass travels

Score Obtained : 0.0

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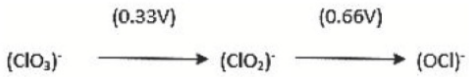
A) 1.2 m
B) 120 m
C) 0.12 m
D) 12 m

Q2791675 An object is gently placed on a long converges belt moving with 11 ms^{-1}. If the coefficient of friction is 0.4, the block will slide in the belt up to a distance of

Score Obtained : 0.0

A) 15.43 m
B) 20.3 m
C) 25.6 m
D) 10.21 m

Q2792619 Find the electrode potential for the conversion of $(ClO_3)^-$ to $(OCl)^-$ using Latimer diagram?



Score Obtained : 0.0

A) 0.50 V
B) 0.33 V
C) 0.99 V
D) 0.82 V

Q2791640 Electronic configuration of the element Technetium with the atomic number 43 is

Score Obtained : 0.0

A) $[Kr]4d^5 5s^2$
B) $[Kr]4d^{10} 5s^1$
C) $[Kr]4d^{10} 5s^2$
D) $[Kr]4d^1 5s^2$

Q2791722 In a potentiometer experiment the balancing with a cell is at a length of 240 cm. On shunting the cell with a resistance of 2 ohms, the balancing length becomes 120 cm. What is the internal resistance of the cell?

Score Obtained : 0.0

A) 0.5 ohm
B) 1 ohm
C) 4 ohm
D) 2 ohm

Q2791768 A ball is dropped from a height of 20 m above the surface of water in a lake. The refractive index of water is 4/3. A fish inside the lake, in the line of fall of the ball, is looking at the ball. At an instant, when the ball is 12.8 m above the water surface, the fish sees the speed of ball as:

Score Obtained : 0.0

A) 21.33 m/s
B) 16 m/s
C) 9 m/s
D) 12 m/s

Q2791681 The three central concepts in Newtonian mechanics are

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A) Weight, speed and Gravity

B) Mass, Motion and Force

C) Mass, Motion and Gravity

D) Force, Mass and Acceleration

Q2792611 Which of the following species is formed on comproportionation of NO and N_2O_4?

Score Obtained : 0.0

A) $(NO_3)^-$

B) N_2O_3

C) N_2O_5

D) $(NO_2)^-$

Q2791756 A submarine is fitted with a SONAR system which operates at an ultrasonic frequency of 42 kHz. An enemy submarine is moving towards the SONAR with a speed of 200 m/s. If the speed of sound in seawater is 1400 m/s, the frequency of sound received back at the SONAR fitted submarine after reflection from the enemy submarine is

Score Obtained : 0.0

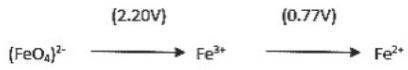
A) 42 kHz

B) 56 kHz

C) 36 kHz

D) 48 kHz

Q2792618 Find the electrode potential for the conversion of $(FeO_4)^{2-}$ to Fe^{2+} using Latimer diagram?



Score Obtained : 0.0

A) 1.46 V

B) 2.97 V

C) 1.43 V

D) 1.84 V

Q2791759 Two glass bulbs of equal volume are connected by a narrow tube and are filled with a gas at 0 °C and a pressure of 76 cm of mercury. One of the bulbs is then placed in melting ice and the other is placed in a water bath maintained at 62 °C. The volume of the connecting tube is negligible. The new value of the pressure inside the bulbs is

Score Obtained : 0.0

A) 29.75 cm of mercury

B) 23.75 cm of mercury

C) 89.75 cm of mercury

D) 83.75 cm of mercury

Q2791733 A long solenoid is formed by winding 40 turns/cm. If magnetic field at its axis is 1mT, then what is the current inside the solenoid?

Score Obtained : 0.0

A) 0. 1 A

B) 0.3 A

C) 0.2 A

D) 0.4 A

Q2791772 The ratio of molar specific heat capacity of a N_2 gas at constant pressure to that at constant volume is

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A) 7/5
B) 5/3
C) 1
D) 3/2

Q2791646 Which pair of species have same percentage of carbon?

Score Obtai

A) CH_3COOH and $C_6H_{12}O_6$
B) CH_3COOH and C_2H_5OH
C) $HCOOCH_3$ and $C_{12}H_{22}O_{11}$
D) $C_6H_{12}O_6$ and $C_{12}H_{22}O_{11}$

Q2791725 Which of the following materials is diamagnetic at 300 Kelvin?

Score Obtai

A) Magnesium
B) Chromium
C) Aluminium
D) Lead

Q2791679 A conveyer belt moves at a steady rate of 2m/s. Sand is poured on the belt at 5 kgm/s. Find the constant force required to maintain the speed of the belt.

Score Obt

A) 3 N
B) 7 N
C) 2.5 N
D) 10 N

Q2792282 Which one of the following is a best way to store massive volumes of water?

Score Obt

A) In dams
B) In underground sumps
C) In sintex tanks
D) In ponds

Q2793292 Which of the following types of cell usually lacks mitochondria?

Score Obtai

A) Human nerve cell
B) Mature human erythrocyte
C) Human liver cell
D) Frog liver hepatocyte

Q2792347 What is an element that is essential to the structure or metabolism called as?

Score Obt

A) Autotrophic element
B) Heterotrophic element
C) Intrinsic element
D) Extrinsic element

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Q2793298 Which of the following options is a non-membrane bound cell organelle?

A) Mitochondria
B) Plasma membrane
C) Cell wall
D) Endoplasmic reticulum

Q2791816 Match the following organisms in List II with their respective kingdoms in List I.

List I	List II
(a) Fungi	(i) Nostoc
(b) Animalia	(ii) Yeast
(c) Protista	(iii) Sponges
(d) Monera	(iv) Dinoflagellates

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

Q2791807 In which of the following phylum, respiratory system is absent?

A) Mollusca
B) Annelida
C) Chordata
D) Echinodermata

Q2792345 Where are GUARD CELLS seen in plants?

A) In the cell wall
B) In-between the phloem
C) In-between the xylem
D) Near the stomata

Q2792277 When objects are in motion, which type of energy does it utilize?

A) Potential Energy
B) Chemical Energy
C) Mechanical Energy
D) Kinetic Energy

Q2792278 A part of the lithosphere which is made up of soil and dirt is

A) Hydrosphere
B) Atmosphere
C) Pedosphere
D) Biosphere

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Q2792352 When we want to determine the extent to which a membrane allows the movement of a substance, what is it called as?

A) Diffusion potential
B) Membrane permeability
C) Electrochemical potential
D) Osmotic potential

Q2791803 The animals of which of the following phyla are also known as flatworms?

A) Mollusca
B) Annelida
C) Platyhelminthes
D) Aschelminthes

Q2791779 Which of the following cell organelles has its own genetic material?

A) Lysosomes
B) Vacuole
C) Peroxisomes
D) Mitochondria

Q2791782 Which of the following cell organelle contains the reducing enzyme catalase and oxidase?

A) Golgi apparatus
B) Ribosome
C) Centrosome
D) Peroxisome

Q2792273 Enzymes belong to which group of biological macromolecules?

A) Protein
B) Minerals
C) Carbohydrates
D) Lipids

Q2792319 The role of an organsim in a community is

A) producers
B) predator
C) niche
D) habitat

Q2792312 A forest of trees and undergrowth plants inhabitated by animals and rooted in soil containing bacteria and fungi is an example of

A) hybrids

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B) biomass

C) community

D) species

Q2792285 Which of the following is a factor or process that grows on the surface of rocks release certain substances that cause the rock surface to powder down and form a thin layer of soil?

Score Obtained : 1.0

A) Wind

B) Lichen

C) Water

D) Sun

Q2792354 What are carrier proteins?

Score Obtained : 0.0

A) They are a byproduct of the translocation process

B) They are the specific molecules that carry certain specific ions or metabolites across a membrane

C) They reverse the movement of the molecules

D) They are proteins that are carried by certain ions and metabolites across a membrane

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Q2792289 Modern farming practices involve the use of large amounts of fertilizers and pesticides. The adverse effect caused because of using these kind of substances in farming practices is

Score Obtained : 1.0

A) Weathering of rocks

B) Destroy soil structure

C) Heating of water bodies

D) Condensation of water droplets

Q2791791 Which of the following Divisions does NOT belong to the sub-kingdom Cryptogamae?

Score Obtained : 1.0

A) Gymnosperm

B) Bryophyta

C) Thallophyta

D) Pteridophyta

Q2791947 The digits of a two-digit number are in the ratio of 2 : 3 and the number obtained by interchanging the digits is bigger than the original number by 18. What is the original number?

Score Obtained : 1.0

A) 46

B) 69

C) 96

D) 64

Q2791918 If ln(x) + ln(x+3) = ln(20 - 5x), then the valu of x is

Score Obtained : 0.0

A) 4

B) 5

C) 2

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D) 8

Q2791874 If sin9α = cos α and 9α < 90°, then the value of tan 5α is

A) 1/√3
B) 1
C) 0
D) √3

Q2791930 *The value of the expression* $\log_5 5 + \log_5 5^2 + \log_5 5^3 + \cdots . + \log_5 5^n$ *is*

A) n+1
B) 5n
C) $\frac{n(n+1)}{2}$
D) 5^n

Q2791929 *If* $(\log_2 x)^2 - \log_2 x^3 - 18 = 0$ *and* x *is an integer, then the value of* x *is*

A) 27
B) 64
C) 16
D) 36

Q2791891 $2\sec^2\theta - \sec^4\theta - 2\operatorname{cosec}^2\theta + \operatorname{cosec}^4\theta =$

A) $\cos^4\theta - \sin^4\theta$
B) $\cos^4\theta + \sin^4\theta$
C) $\cot^4\theta + \tan^4\theta$
D) $\cot^4\theta - \tan^4\theta$

Q2791902 The perimeter of a parallelogram is 30 cm. If the measure of longer side is 8.5 cm, then the measure of shorter side is

A) 7.5 cm
B) 5.5 cm
C) 4.5 cm
D) 6.5 cm

Q2791992 Let $P(x) = px^2 + qx + r = 0$, $r \neq 0$ is a quadratic equation. If both the roots of P(x) are equal, then which among the given options must be true?

S

A) r and p have the same sign
B) r and p have opposite signs
C) r and q have the same sign
D) r and q have opposite signs

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Q2791971 Let A = {1, 2, 3, 4, 5} and B = {a, b, c, d, e}. Then which of the following subsets of A×B is a function from A to B.

Score Obtained : 0.0

A) {(1, a), (2, e), (5, c), (3, a)}
B) {(1, a), (2, b), (c, d), (5, e)}
C) {(1, a), (2, e), (3, b), (4, b), (5, a)}
D) {(1, a), (2, a), (3, e), (4, c), (1, d)}

Q2791882 If $x = r\sin\theta\cos\varphi$, $y = r\sin\theta\sin\varphi$ and $z = r\cos\theta$, then $x^2 + y^2 + z^2 =$

Score Obtained : 1.0

A) 1
B) r^2
C) r
D) 0

Q2791954 Two numbers are respectively 20% and 40% more than a third number. The ratio of the two numbers is

Score Obtained : 1.0

A) 3: 5
B) 6: 7
C) 4: 7
D) 5: 6

Q2791978 If f : R → R, g:R → R and h: R → R is such that f(x) = 2x, g(x) = sinx and h(x) = logx, then the value of [ho(gof)] at x = π/4 is

Score Obtained : 0.0

A) 1
B) 10
C) -1
D) 0

Q2791873 If sin (A + B) = 1, then cos (A – B) is reduced to

Score Obtained : 0.0

A) cos2B
B) cos A
C) sinA
D) sin2B

Q2791994 An owner of a cake shop sold small cakes for ₹ 100 each and large cakes for ₹ 300 each. One day he sold 5000 cakes, for a total of ₹ 10.50 lakh. How many small cakes were sold?

Score Obtained : 0.0

A) 2500
B) 2400
C) 2350
D) 2250

Q2791904 In the given figure, ∠ACB = 90°, AO = OB and OC = 8.5 cm. The area of the triangle ABC is

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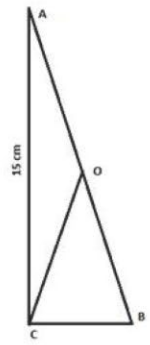


A) 60 cm²
B) 70 cm²
C) 65 cm²
D) 75 cm²

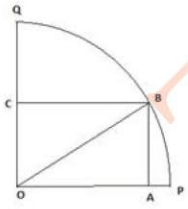
Q2791949 A bag contains 50 p, 25 p and 10 p coins in the ratio 3: 7: 4, amounting to ₹ 146. The number of 50 p, 25 p and 10 p coins respectively are

A) 120, 280, 160
B) 150, 350, 200
C) 90, 210, 120
D) 180, 420, 240

Q2791999 If $\alpha \neq \beta$ but $\alpha^2 = 7\alpha - 5$ and $\beta^2 = 7\beta - 5$, then the equation whose roots are α/β and β/α is

A) $3x^2 - 25x + 3 = 0$
B) $5x^2 + 39x + 5 = 0$
C) $5x^2 - 39x + 5 = 0$
D) $3x^2 + 25x + 3 = 0$

Q2791903 In the given figure, OABC is a rectangle inscribed in a quadrant of radius 10 cm. If $OC = 4\sqrt{5}$ cm, then the area of the rectangle is



A) 56 cm²
B) 40 cm²
C) 60 cm²
D) 44 cm²

Q2791926 If $\log_4 2 + \log_4 4 + \log_4 x + \log_4 64 = 5$, *then the value of* x *is*

A) 16
B) 4