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

English Language

Q2792681 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.

MONK : HABIT

Score Obtained : 0.0

- A) director : peddle
- B) hawker : shroud
- C) actor : script
- D) judge : robe**

Q2792645 Identify the meaning of the highlighted idiom - **Sit on the fence**

Score Obtained : 0.0

- A) To get something over with
- B) To make false claims
- C) To avoid making a decision**
- D) To save money or time

Q2792705 The prefix 'omni' in the word omnivorous refers to-

Score Obtained : 1.0

- A) together
- B) forward
- C) after
- D) all**

Q2792659 Fill in the blanks with the most appropriate words.

The \_\_\_\_\_ scientists of the world had predicted that disaster would be \_\_\_\_\_ if humans kept exploiting the planet.

Score Obtained : 1.0

- A) imminent, imminent
- B) eminent, imminent**
- C) eminent, eminent
- D) imminent, eminent

Q2792698 Fill in the blank with the correct spelling from among the given options.

The \_\_\_\_\_ of reptiles is kept in the first shelf of the library.

Score Obtained : -0.25

- A) encyclopeadia

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- B) encyclopedia  
C) encylopedia  
**D)** encyclopaedia

Q2790426 *Direction: Read the following passage and answer the questions based on the information provided in the passage.*

Whether work should be placed among the causes of happiness may perhaps be regarded as a doubtful question. There is certainly much work that is exceedingly irksome, and excess of work is always painful. I think, however, that provided work is not excessive in amount, even the dulllest work is to most people less painful than idleness. There are in work all grades from mere relief of tedium up to profoundest delights, according to the nature of the work and the abilities of the worker. Most of the work that most people have to do is not in itself interesting, but even such work has certain advantages. To begin with, it fills a good many hours of the day without the need of deciding what one shall do. Most people, when they are left free to fill their own time according to their own choice, are at a loss to think of anything sufficiently pleasant to be worth doing. And whatever they decide to on, they are troubled by the feeling that something else would have been pleasanter.

To be able to fill leisure intelligently is the last product of civilization, and at present very few people have reached this level. Moreover, the exercise of choice is in itself tiresome. Except to people with unusual initiative, it is positively agreeable to be told what to do at each hour of the day, provided the orders are not too unpleasant. Most of the idle rich suffer unspeakable boredom as the price of their freedom from drudgery. At times they may find relief by hunting big game in Africa, or by flying around the world, but the number of such sensations is limited, especially after youth is past. Accordingly, the more intelligent rich men work nearly as hard as if they were poor, while rich women keep themselves busy with innumerable trifles of whose importance they are firmly persuaded.

Work therefore is desirable, first and foremost, as a preventive of boredom, for the boredom that a man feels when he is doing necessary though uninteresting work is nothing in comparison with the boredom one feels when he has nothing to do with his days. There is another advantage, namely that it makes holidays much more delicious when they come. Provided a man does not have to work so hard as to impair his vigour, he is likely to find far more zest in his free time than an idle man could possibly find.

Q2790429 The author suggests that most rich women busy themselves with tasks \_\_\_\_\_.

Score Obtained : -0.25

- A) of earth shaking importance  
B) of social importance  
C) really important  
**D)** of doubtful importance

Q2790428 Why is work desirable in the first place?

Score Obtained : 1.0

- A) as the idle rich feel boredom  
B) frees one from the necessity of choice  
C) it fills good many hours of the day  
D) can bring delight

Q2790430 According to the passage ,the rich can be engaged in the following activities except?

Score Obtained : -0.25

- A)** Various social activities even in their old age  
B) Hunting big game in Africa  
C) Flying around the world  
D) Working as hard as if they were poor

Q2790427 According to the author, work of any sort is\_\_\_\_\_.

Score Obtained : 0.0

- A) preferable when it is too less  
B) preferable to boredom when it is not irksome  
**C)** always preferable to boredom  
D) when it is in excess

Q2790431 Find the synonym of irksome

Score Obtained : 0.0

- A) enjoyable

- B)** irritating  
C) laborious  
D) manual

Q2791164 Which of the following is a unique system of schools specially tasked with discovering talented children in rural areas of India and imparting quality education to them?

Score Obtained : 1.0

- A) Kendriya Vidyalayas  
**B)** Jawahar Navodaya Vidyalayas  
C) Army Public Schools  
D) Gurukul Pathashalas

Q2791157 Sargent Scheme of Education' is also known as:

Score Obtained : -0.25

- A) Report by the National Advisory Council of Education  
B) Report by the Central Board of Secondary Education  
**C)** Scheme of Post-War Education Development in India  
D) Scheme of Pre-War Educational Reconstruction in India

Q2791097 Which of the following is the most abundant chemical present in Glass?

Score Obtained : 0.0

- A) Manganese  
B) Calcium  
**C)** Silica  
D) Aluminium

Q2791145 Which of the following academic branches is NOT the part of District Institute for Education and Training (DIET)?

Score Obtained : 1.0

- A)** Socially Useful Productive Work (SUPW)  
B) Pre-Service Teacher Education (PSTE)  
C) Work experience (WE)  
D) Educational Technology (ET)

Q2791080 In India, the composition of the commission is determined by who among the following in case of Union Public Service Commission (UPSC)?

Score Obtained : 0.0

- A) Prime Minister of India  
**B)** President of India  
C) Vice President of India  
D) Supreme Court of India

Q2791331 A mixture contains pure ghee and vanaspati in the ratio 7 : 2. If it contains 20 litres more ghee than vanaspati, the quantity of pure ghee in the mixture is

Score Obtained : 1.0

- A) 12 litres  
B) 14 litres  
**C)** 28 litres  
D) 24 litres

Q2792723 Rahul walks in East direction for 70 Kms. After that he turns to West direction and walks for another 10 Kms and finally he turns to South direction and walks for 11 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) 91 Kms, South-West  
**B)** 61 Kms, South-East  
 C) 81 Kms, South-East  
 D) 71 Kms, South-West

Q2791348 In a certain code language, ZEBRA is coded as ARBEZ then, what will be the code for GIRAFFE?

Score Obtained : 1.0

- A) EFRIAAG  
**B)** EFFARIG  
 C) EFAFRIG  
 D) EEFRAIG

Q2792737 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 should the meaning of 'le' in a code language?

Statements:

- I. 'le me ne' means 'He is good' in the code language  
 II. 'me ke ne' means 'She is good' in the code language

Score Obtained : -0.25

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

Q2791363 Choose the conclusion/conclusions that follow the given statements by selecting a right option.

Statements:

Some producers are writers.

All writers are singers.

Conclusions:

- I) Some producers are singers  
 II) No writer is producer

Score Obtained : 1.0

- A) Only II follows  
**B)** Only I follows  
 C) None follow  
 D) Both I and II follows

Q2791226 In which of the following agencies of education, do both the agency and the individual actively participate and share in the educative process?

Score Obtained : -0.25

- A) Newspaper  
 B) Films  
 C) Television  
**D)** Home

Q2792786 State boards may focus on local cultures, histories and geography while the national curriculum focuses on broad narratives that define a nation. This is a validation that

Score Obtained : 1.0

- A) Education should be based per the local interests and not national interests
- B) Variety brings creativity and internal competition
- C) People teach what they know best
- D) Different social aspirations demands different types of education**

Q2792747 Which is an immediate action in case of violence and aggression in the classroom?

Score Obtained : 0.0

- A) Counsel the aggressor
- B) Create classroom rules
- C) Call up and inform the parents
- D) Protect the victim**

Q2792821 The ability to think abstractly about the role of concepts like democracy, human rights and justice for a fair society as per Piaget's stages of development is a characteristic of

Score Obtained : 0.0

- A) Formal operational stage**
- B) Pre-operational stage
- C) Sensorimotor stage
- D) Concrete operational stage

Q2791183 A Language teacher notices that students are uninterested in poetry and have difficulty in comprehending their meaning. She develops a modular program for developing interest and appreciation of poetry and implements in the classroom. Which type of research has been conducted by the teacher?

Score Obtained : 0.0

- A) Basic Research
- B) Action Research**
- C) Applied Research
- D) Fundamental Research

Q2791216 Micro-teaching has several advantages and some of them are given below. Identify the one which does not belong to this group.

Score Obtained : 0.0

- A) Provides a less frightening class environment, and hence no problem of controlling classroom
- B) Results in more permanent learning because of high degree of student participation.**
- C) Positive criticisms are made by peers and the trainer in a friendly atmosphere.
- D) Provides a chance for instant feedback and further practice.

Q2791227 For the improvement of standards of teaching and research in India, UGC has set up various CAS in different branches of knowledge in the year 1963. What does CAS stand for?

Score Obtained : 0.0

- A) Centre for Advanced Study**
- B) Committee for Advanced Science
- C) Centre for Academic Surveillance
- D) Central Authority of Science

Q2792791 Creating parent-teacher interactions, celebrating festivals and national events etc. in a school indicates that

Score Obtained : 0.0

- A) Schools exposes children to many activities  
**B) School is a socially embedded institution**  
 C) Parents should take responsibility for learning  
 D) Children should be conditioned ideologically

Q2792743 In a classroom frequently disrupted due to students' forgetting to bring their pencils, the best action to make students responsible and also continue the lesson with least disruption would be

Score Obtained : 0.0

- A) Reporting it to the parents or school Principal  
 B) Giving the teacher's own pencil  
 C) Firmly disallowing participation  
**D) Keeping a stock of pencils and lending one on a collateral**

Q2792823 Small children are sometimes seen to demand that they be given a chance to drive. This is clearly indicative of

Score Obtained : 0.0

- A) Lack of schemes  
 B) Lack of adaptation  
 C) Lack of accommodation  
**D) Lack of organisation**

Q2791716 If  $v_d$  is drift velocity in a conductor, then the relation between current ( $I$ ) and drift velocity ( $v_d$ ) is

Score Obtained : 0.0

- A)  $I \propto 1/v_d^2$   
**B)  $I \propto v_d$**   
 C)  $I \propto 1/v_d$   
 D)  $I \propto v_d^2$

Q2791755 Two sitar strings A and B are slightly out of tune and produce beats of frequency 6 Hz. When the tension in string A is slightly decreased, the beat frequency is found to be reduced to 3 Hz. If the original frequency of A is 324 Hz, the frequency of B is

Score Obtained : 0.0

- A) 318 Hz**  
 B) 330 Hz  
 C) 327 Hz  
 D) 321 Hz

Q2791678 A gun fires a bullet of mass 50g with a velocity of 30 m/s. As a result, the gun is pushed back with a velocity of 1m/s. Find the mass of the gun.

Score Obtained : 1.0

- A) 1.5 kg**  
 B) 15 kg  
 C) 30 kg  
 D) 20 kg

Q2791762 The speed of sound in a medium depends on

Score Obtained : 0.0

- A) neither the elastic property nor the inertia property

- B)** the elastic property as well as the inertia property  
 C) the inertia property but not on the elastic property  
 D) the elastic property but not on the inertia property

Q2792605 Which of the following reactions is feasible?

Score Obtained : 0.0

- A)**  $\text{Cl}_2 + 2\text{I}^- \rightarrow \text{I}_2 + 2\text{Cl}^-$   
 B)  $\text{Sn}^{2+} + \text{Cu} \rightarrow \text{Sn} + \text{Cu}^{2+}$   
 C)  $\text{Cu} + \text{ZnSO}_4 \rightarrow \text{CuSO}_4 + \text{Zn}$   
 D)  $2\text{Ag} + \text{FeSO}_4 \rightarrow \text{Fe} + \text{Ag}_2\text{SO}_4$

Q2792608 When copper electrode is dipped in hydrochloric acid, which of the following reactions occurs?

Score Obtained : 1.0

- A) Copper undergoes oxidation and Hydrogen gas is liberated  
**B)** Copper does not undergo any reaction and Hydrogen gas will not be liberated  
 C) Copper undergoes reduction and Hydrogen gas is liberated  
 D) Copper undergoes reduction and Hydrogen gas will not be liberated

Q2792607 When tin electrode is dipped in sulphuric acid, which of the following reactions occurs?

Score Obtained : 1.0

- A) Tin undergoes reduction and Hydrogen gas is liberated  
**B)** Tin undergoes oxidation and Hydrogen gas is liberated  
 C) Tin undergoes oxidation and Hydrogen gas will not be liberated  
 D) Tin undergoes reduction and Hydrogen gas will not be liberated

Q2791724 The Dees in the cyclotron are made of metal to shield from

Score Obtained : 0.0

- A) Electrons  
**B)** Electric field  
 C) Magnetic field  
 D) Protons

Q2791674 A constant retarding force of 80 N is applied to a body of mass 50 Kg which is moving initially with a speed of 20m/s. What would be the time required by the body to come to rest?

Score Obtained : 1.0

- A)** 12.5 s  
 B) 15 s  
 C) 14 s  
 D) 18 s

Q2791638 Which among the following equations represents de Broglie equation?

Score Obtained : -0.25

- A)**  $E = hc/\lambda$   
**B)**  $\lambda = h/mv$   
 C)  $\lambda = E/hc$   
 D)  $E = mc^2$

Q2791654 The number of times the comparative mass of a neutron is heavier than an electron is

Score Obtained : 0.0

- A) ~182
- B) ~4050
- C) ~1842**
- D) ~102

Q2791731 A charged particle of mass 2kg and charge 6C enters in to a magnetic field of 1T normally to magnetic field lines. Which of the following is cyclotron angular frequency of the charged prticle?

Score Obtained : 0.0

- A) 1 rad/s
- B) 0 rad/s
- C) 3 rad/s**
- D) 2 rad/s

Q2792617 Which of the following reactants give phosphoric acid?

Score Obtained : 0.0

- A) P and HCl
- B) P and  $H_2SO_3$
- C) P and  $HNO_2$
- D) P and  $HNO_3$**

Q2791657 Atoms with identical atomic number but different atomic mass number are known as

Score Obtained : 1.0

- A) Isobars
- B) Isomers
- C) Polymers
- D) Isotopes**

Q2791726 When placed in a non uniform magnetic field, Diamagnetic substances tend to

Score Obtained : 0.0

- A) move from weaker to stronger magnetic field
- B) attract other metals
- C) create their own magnetic field
- D) move from stronger to weaker magnetic field**

Q2791753 The frequency of the first overtone of a closed pipe is equal to that of the first overtone of an open pipe. It is also found that a vibrating source resonates with the nth harmonic of the closed pipe and with the mth harmonic of the open pipe. The ratio n/m is

Score Obtained : 0.0

- A) 2/3
- B) 3/2**
- C) 3/5
- D) 5/3

Q2791754 A standing wave is produced due to a superposition of the incident wave and the wave reflected from a boundary. It is observed that the amplitude of an antinode is 9 times that at node. The percentage of the incident intensity reflected from the boundary is

Score Obtained : 0.0

- A) 64%  
B) 72%  
C) 81%  
D) 36%

Q2791684 A parallel combination of two springs is connected in series with the third spring. All the springs are identical having spring constants  $k$  each. Find the spring constant of the combination.

Score Obtained : 0.0

- A)  $2k / 3$   
B)  $3k / 2$   
C)  $k$   
D)  $3k$

Q2791659 Mass of a proton is

Score Obtained : 0.0

- A) 0.00727 amu  
B) 1.00727 amu  
C) 0.00054 amu  
D) 1.0087 amu

Q2791686 When a person in a lift accelerates in downward direction, the ratio of his apparent weight to his actual weight will be

Score Obtained : 0.0

- A) more than 1  
B) 1  
C) 0  
D) less than 1

Q2792269 Ecological foot print is basically an accounting tool that uses land as the unit of measurement to assess per capita consumption, production, and discharge needs. It was developed by developed by Canadian ecologist and planner

Score Obtained : 0.0

- A) Van Helmont  
B) Frederick Blackman  
C) William Rees  
D) Victor Ernest Shelford

Q2792317 The process by which toxins enter the food web by building up in individual organisms is

Score Obtained : -0.25

- A) Biomagnification  
B) Biodegradation  
C) Bioremediation  
D) Bioaccumulation

Q2791790 Which of the following animals belongs to the phylum Platyhelminthes?

Score Obtained : 1.0

- A) Roundworm  
B) Blood sucking leech  
C) Tapeworm  
D) Earthworm

Q2793294 What is the nature and name of the structure within the centromere where spindle fibres attach during cell division respectively?

Score Obtained : -0.25

- A) Porous, kinetochore
- B) Porous, mitochondria
- C)** Granular, kinetochore
- D) Fibrous, mitochondria

Q2792292 Fossil fuels are examples of which kind of natural source of energy?

Score Obtained : 0.0

- A) Renewable sources of energy
- B)** Non-renewable sources of energy
- C) Thermokinetic energy
- D) Nuclear energy

Q2792272 Ozone is a gas made up of

Score Obtained : 1.0

- A) two oxygen atoms
- B) four oxygen atoms
- C) one oxygen atom
- D)** three oxygen atoms

Q2793297 Read the following statements and choose the CORRECT option.

Statement I: Cell membrane is selectively permeable to lipids and its derivatives.

Statement II: Cell membrane is fully permeable to water.

Statement III: Cell membrane is impermeable to gases like oxygen, carbon dioxide etc.

Score Obtained : -0.25

- A) Statement II is correct but statements I & III are incorrect
- B) All are I, II and III are correct statements
- C) Only statement III is correct
- D)** Only statement I is correct

Q2792280 Many marine animals use carbonates dissolved in sea-water to make their

Score Obtained : -0.25

- A) arches
- B) filaments
- C)** shells
- D) blood vessels

Q2791817 Which of the following taxonomical aids are used for identification of plants and animals based on similarities and dissimilarities?

Score Obtained : -0.25

- A)** Key
- B) Herbarium
- C) Museum
- D) Botanical garden

Q2792350 What is the other name for the extracellular space created from the continuation of the cell wall?

Score Obtained : 1.0

- A) Symplast
- B) Apoplast**
- C) Heteroplast
- D) Biplast

Q2792274 The term used by scientists to discuss the concept of energy flow through living systems such as cells is

Score Obtained : 1.0

- A) Biomechanics
- B) Bioconservation
- C) Biodynamics
- D) Bioenergetics**

Q2791781 Which of the following models was proposed by Singer and Nicolson on the concept of cell membrane structure?

Score Obtained : 1.0

- A) Kavanau's Lipid Pillar Model
- B) Fluid Mosaic Model**
- C) Danielli and Davson Model
- D) Unit Membrane Model

Q2792343 Name the vascular tissue in plants?

Score Obtained : 1.0

- A) Phloem and Collenchyma
- B) Xylem and Collenchyma
- C) Collenchyma and Parenchyma
- D) Xylem and Phloem**

Q2793293 Which of the following statements is CORRECT as per fluid mosaic model of plasma membrane?

Score Obtained : 1.0

- A) A bilayer is produced by phospholipids in the middle layer of the plasma membrane**
- B) Upper layer is partially polar and partially non-polar of the plasma membrane
- C) Proteins are embedded in the centre of the upper and lower layer of the plasma membrane
- D) Lower layer is non-polar and hydrophilic in nature of the plasma membrane

Q2792279 The sum total of all processes in which water moves from the land and ocean surface to the atmosphere and back in form of precipitation is

Score Obtained : 1.0

- A) sulfur cycle of the earth
- B) hydrological cycle of the earth**
- C) carbon cycle of the earth
- D) nitrogen cycle of the earth

Q2792344 What is the driving force for transpiration in plants?

Score Obtained : 0.0

- A) Quantity of water available in atmosphere
- B) Difference in water vapour concentration between plants and the atmosphere**

- C) Integrity of the living tissue  
D) Quantity of water available in the soil

Q2792281 Which of the following is formed due to the heating of water bodies and the activities of living organisms?

Score Obtained : 0.0

- A) Water vapour**  
B) Floods  
C) Acid rain  
D) Deforestation

Q2791806 The growth of a part of a plant in response to touch is known as

Score Obtained : 1.0

- A) Hydrotropism  
B) Phototropism  
C) Geotropism  
**D) Thigmotropism**

Q2792342 What are the structures that are attached to the root and assist in greater absorption of water from the soil?

Score Obtained : 1.0

- A) Root filaments  
B) Root capillaries  
C) Root cuticles  
**D) Root hairs**

Q2791805 The term 'Angiosperm' is derived from two greek words, angio and sperma. What do they mean?

Score Obtained : 1.0

- A) Naked, Seed  
**B) Covered, Seed**  
C) Young shoot, Plant  
D) Moss, Plant

Q2791952 The ratio of the first and second-class fares between the two stations is 7 : 3 and the ratio of the number of passengers traveling by first and second-class between these 2 stations is 1 : 21. If the total collected fare is ₹ 5000, then what is the amount collected from first class passengers?

Score Obtained : 0.0

- A) ₹ 450  
**B) ₹ 500**  
C) ₹ 300  
D) ₹ 550

Q2791914 If D is a point on side BC of a  $\triangle ABC$  such that  $AD = BD = CD$ , then

Score Obtained : -0.25

- A)  $AB^2 + AC^2 = BC^2$**   
**B)  $AB \cdot AC = AD^2$**   
C)  $AD^2 + DC^2 = AC^2$   
D)  $AD^2 + BD^2 = AB^2$

Q2791955 Total number of prime factors in the product of  $2^{15} \times 6^{27} \times 7^8 \times 10^{13} \times 11^9 \times 323^{21}$  is

Score Obtained : -0.25

- A) 12  
B) 5  
**C) 7**  
D) 10

Q2791883  $(1 + \tan^2 \theta) + \left(1 + \frac{1}{\tan^2 \theta}\right) =$

Score Obtained : 1.0

- A)  $\frac{1}{(\sin^2 \theta + \sin^4 \theta)}$   
B)  $\sin^2 \theta + \sin^4 \theta$   
**C)  $\frac{1}{(\sin^2 \theta - \sin^4 \theta)}$**   
D)  $\sin^2 \theta - \sin^4 \theta$

Q2791957 The decimal expansion of  $\frac{427}{2^3 \times 5^4 \times 7}$  has

Score Obtained : 1.0

- A) 1 digit after the decimal point  
**B) 4 digits after the decimal point**  
C) 3 digits after the decimal point  
D) 2 digits after the decimal point

Q2791995 If the sum of two numbers is 100 and the difference between their squares is 3000, then the numbers are

Score Obtained : 1.0

- A) 65 and 35**  
B) 55 and 45  
C) 60 and 40  
D) 75 and 25

Q2791974 If  $f : \mathbb{R} \rightarrow \mathbb{R}$  and  $g : \mathbb{R} \rightarrow \mathbb{R}$  defined by  $f(x) = 2x + 3$  and  $g(x) = x^2 + 7$ , then the value of  $x$  for which  $f(g(x)) = 35$  is

Score Obtained : 1.0

- A)  $\pm 1$   
**B)  $\pm 3$**   
C)  $\pm 2$   
D)  $\pm 4$

Q2791968 If  $X = \{p, q, r, s\}$  and  $Y = \{6, 7, 8\}$ , then number of one-one functions from  $X$  to  $Y$  are

Score Obtained : -0.25

- A) 12**  
B) 3  
**C) 0**  
D) 4

Q2791967 If Set  $X$  has 5 elements and the set  $Y$  has 6 elements, then the number of injective functions that can be defined from set  $X$  to set  $Y$  is

Score Obtained : -0.25

- A) 120
- B) 30
- C) 720
- D) 360

Q2791900 In the given figure, AB is the diameter of the circle and CD || AB. If  $\angle DAB = 35^\circ$ , then the measure of  $\angle ACD$  is

Score Obtained : 1.0

- A)  $55^\circ$
- B)  $125^\circ$
- C)  $65^\circ$
- D)  $35^\circ$

Q2791998 If the roots of the equation  $(b-c)x^2+(c-a)x+a-b=0$  are equal, then, which of the following options are true?

Score Obtained : 0.0

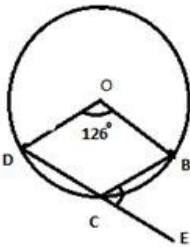
- A)  $2b = a + c$
- B)  $2c = a + b$
- C)  $a + b + c = 0$
- D)  $2a = b + c$

Q2791925 If  $\frac{36}{x^{\frac{6}{5}}} = \frac{x^{\frac{9}{5}}}{48}$ , then the value of x is

Score Obtained : 1.0

- A) 12
- B) 6
- C) 8
- D) 10

Q2791899 In the given figure, O is the centre of the circle,  $\angle BOD = 126^\circ$ , side DC is produced to E.  $\angle BCE = ?$



Score Obtained : 1.0

- A)  $63^\circ$
- B)  $60^\circ$
- C)  $42^\circ$
- D)  $126^\circ$

Q2791931 What is the value of  $3^{3^{(-3)}}$

Score Obtained : 0.0

- A)  $-\sqrt[27]{3}$

- B)  $\sqrt[27]{3}$   
C)  $\frac{1}{27}$   
D)  $-\frac{1}{27}$

Q2791939  $\frac{\log_3 32}{\log_9 16 \log_4 10}$  is equal to

Score Obtained : 0.0

- A)  $3 \log_{10} 2$   
B)  $2 \log_{10} 3$   
C)  $4 \log_{10} 3$   
D)  $5 \log_{10} 2$

Q2791872  $\tan 9^\circ \tan 21^\circ \tan 60^\circ \tan 69^\circ \tan 81^\circ =$

Score Obtained : -0.25

- A)  $1/\sqrt{3}$   
B)  $\sqrt{3}$   
C) 0  
D) 1

Q2791997 If  $3x + 2y - z = -1$ ,  $-2x - 2y + 3z = 5$  and  $5x + 2y - z = 3$ , then the value of  $x+y+z$  is

Score Obtained : 1.0

- A) 4  
B) 1  
C) 0  
D) 10

Q2791928 If  $\log_3 [\log_2 (x^2 - x - 48)] = 1$  and  $x$  is a natural number, then the value of  $x$  is

Score Obtained : 1.0

- A) 8  
B) 6  
C) 7  
D) 10

Q2791869  $\frac{\cos \theta}{1 - \tan \theta} + \frac{\sin \theta}{1 - \cot \theta} =$

Score Obtained : -0.25

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

Q2791881  $(2 \cos^3 A - \cos A) / (\sin A - 2 \sin^3 A) =$

Score Obtained : 1.0

- A)  $\tan A$

B)  $\cot A$

C)  $\cos A$

D)  $\sin A$

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