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NVS Exam

PGT Maths Paper (2019)

Simplifying **Government Exams**





Navodaya Vidyalaya Samiti

(An Autonomous Body Under MHRD) Government of India

Roll No.	
Participant Name	
Test Center Name	
Test Date	
Test Time	
Subject	PGT MATHEMATICS

Section: General (English & Hindi)

Q.1 Select the option that expresses the given sentence in direct speech.

Father told his children that he didn't wish to see any of them and ordered them to go away and leave him alone for some time.

Father said to his children:

Ans



"I didn't wish to see any of you. Go away and leave him alone for some time."



"He didn't wish to see any of them. They should go away and leave him alone for some time."



"I am not wishing to see any of you. You may go away and leave me alone for some time."



"I don't wish to see any of you. Go away and leave me alone for some time."

Question ID : **7193992750** Status : **Answered** Chosen Option : **4**

Q.2 Select the most appropriate option to fill in the blank:

The natural beauty of the Indus Valley is beyond description but the river _____ is very muddy.

Ans

X 1. herself

✓ 2. itself

X 3. himself

X 4. oneself

Question ID : 7193992736 Status : Answered Chosen Option : 2

Q.3 In the following sentence four words or phrases have been underlined. One of them is incorrect. Choose the INCORRECT word or phrase from the given options:

Once I saw five townsmen getting to hold of a peasant and tearing at him like a pack of dogs.

Ans

1. Once I saw

X 2. pack of dogs

X 4. tearing at him

Question ID: 7193992747 Status: Answered

Chosen Option: 4

Q.4	Select	the	most	ap	pro	priate	option	to	fill	in	the	blank:	
-----	--------	-----	------	----	-----	--------	--------	----	------	----	-----	--------	--

This is one the rooms in this hotel.

- Ans X 1. more nice
 - X 2. nice
 - √ 3. nicest
 - X 4. nicer

Question ID: 7193992734 Status: Answered

Chosen Option: 3

Q.5 Select the option that is NOT an antonym of another word by way of adding the prefix 'un-'.

Ans

- Underhand
- X 2. Unmeasured
- X 3. Unfamiliar
- X 4. Undecided

Question ID: 7193992744

Status: Answered

Chosen Option: 1

Select the INCORRECTLY spelt word:

Ans

- X 1. Cautious
 - X 2. Conspicuous
 - X 3. Conscious
 - 4. Conscencious

Question ID: 7193992746

Status: Answered

Chosen Option: 1

Select the most appropriate option to fill in the blank:

Their house is under repair. They _____ with us nowadays.

- Ans X 1. have lived
 - X 2. lived
 - X 3. were living
 - ✓ 4. are living

Question ID: 7193992731

Status: Answered

Chosen Option: 4

Q.8

Select the option that expresses the given sentence in reported speech.

"I don't like the pattern of the dress you have made for me," Esha said to me.

Esha told me that:

Ans



she didn't like the pattern of the dress you have made for her.



she didn't like the pattern of the dress you had made for me.

- 3. I don't like the pattern of the dress you have made for me.
- ✓ 4. she didn't like the pattern of the dress I had made for her.

Question ID: 7193992749 Status: Answered

Chosen Option: 4

Q.9 Select the correct passive form of the given sentence:

The landowners allowed the peasants only a few weeks to simply pack and leave the land.

Ans



The peasants were allowed by the landowners only a few weeks to simply pack and leave the land.



The landowners were allowed by the peasants only a few weeks to simply pack and leave the land.



Only a few weeks are being allowed by the landowners to the peasants to simply pack and leave the land.



The peasants have been allowed by the landowners only a few weeks to simply pack and leave the land.

Question ID: 7193992740 Status: Answered Chosen Option: 4

Q.10 Select the correctly spelt word:

- X 1 Preferrable
- X 2. Priferable
- 3. Preferable
- X 4. Prefarable

Question ID: 7193992745 Status: Answered

Chosen Option: 1

Q.11 Select the most appropriate synonym of the given word:

OBLIGATORY

Ans

√ 1. Essential

X 2. Exclusive

X 3. Flexible

X 4. Open

Question ID: 7193992741 Status: Answered

Chosen Option: 1

Q.12	Select the most appropriate option to fill in the blank:					
	Stones were in abundance in the valley. The Jews collected and carried by ox c	art to their establishment.				
Ans	1. they					
	× 2. their					
	× 3. us					
	✓ 4. them					
		Question ID : 7193992735				
		Status : Answered Chosen Option : 4				
		Shocen option: 1				
Q.13	Select the most appropriate option to fill in the blank:					
	The conductor of the bus swam towards the child in an	effort to save him.				
Ans	X ¹ drowned					
	× 2. sunken					
	√ 3. drowning					
	× 4. sunk					
		Question ID : 7193992733				
		Status : Answered				
		Chosen Option : 3				
Q.14	Select the most appropriate ANTONYM of the giv	ren word:				
Ana	INTEGRITY					
Ans	X 1. Reliability					
	✓ 2. Dishonesty					
	× 3. Truthfulness					
	★ 4. Dependability					
		Question ID : 7193992743				
		Status : Answered				
		Chosen Option : 2				
Q.15	⁵ Select the most appropriate option to fill in the blank:					
	No country lets you enter it you have prop	er documents				
Ans	X 1. because					
	× 2. so that					
	X 3. if					
	✓ 4. unless					
	- 0.777700,7%					
		Question ID : 7193992737 Status : Answered				
		Chosen Option : 4				
Q.16	Select the most appropriate synonym of the given	word:				
	select the most appropriate synonym of the given	word.				
	FARCICAL					

X 1. Serious ✓ 2. Absurd X 3. Sarcastic X 4. Persistent Question ID: 7193992742 Status: Answered Chosen Option: 3 Q.17 Select the correct passive form of the given sentence: The new findings of the space scientists will improve existing models of solar systems. Ans Existing models of solar systems will be improved by the new findings of the space scientists. Existing models of space scientists will be improved by the new findings of the solar systems. Existing models of solar systems will improve the new findings of the space scientists. **X** 4. Existing models of solar systems have been improved by the new findings of the space scientists. Question ID: 7193992739 Status: Answered Chosen Option: 1 Q.18 Select the most appropriate option to fill in the blank: I gave my address to some friends in Croatia, they decided to visit me when they came to Mumbai. Ans √ 1. in case × 2. as though X 3. so that X 4. whereas Ouestion ID: 7193992738 Status: Answered Chosen Option: 2 Q.19 Select the most appropriate option to fill in the blank: Tomorrow, definitely, I _____ this telephone to VSNL. It just doesn't work. X 1. have surrendered √ 2. will surrender X 3. surrender X 4. surrendered Question ID: 7193992732 Status: Answered Chosen Option: 2 Q.20 In the following sentence four words or phrases have been underlined. One of them is incorrect. Choose the INCORRECT word or phrase from the given options: On Monday, six special trains meant to transport stranded labourers from Kerala to three eastern states was pressed into Ans 1. On Monday

- 2. meant to transport
- X 3. from Kerala
- 4. was pressed

Question ID: 7193992748 Status: Answered

Chosen Option: 4

स्वेच्छा का संधि विच्छेद है:

Ans

- X 1. स्व + ईच्छा
- 🗙 २. स्वा + ईच्छा
- √ 3. स्व + इच्छा
- 🗙 4. स + इच्छा

Ouestion ID: 7193992763 Status: Answered

Chosen Option: 3

0.22 शे + अन = शयन का संधि भेद है:

- Ans 🗸 ा अयादि संधि
 - X 2. यण संधि
 - 🗙 ३. गुण संधि
 - X 4. विसर्ग संधि

Question ID: 7193992764

Status: Answered

Chosen Option: 3

^{Q.23} लोक के लिए अर्पण का समस्तपद है:

- Ans 🗸 ा लोकार्पण
 - X 2. लोक है अर्पण
 - X 3. लोक को अर्पण
 - 🗙 4. लोकमय

Question ID: 7193992766

Status: Answered

Chosen Option: 1

^{Q.24} नृत्य का तद्भव रूप होगा:

- Ans X 1. नट
 - **X** 2. **नाटक**
 - **X** 3. नाचना
 - **√** 4. नाच

Question ID: 7193992753 Status: Answered

Q.25 अब मैंने चलने की आजा दीजिए। वाक्य का शुद्ध रूप है:

- 🔀 1. चलने की अब मुझे आज्ञा दीजिए।
- 🗶 2. आज्ञा दीजिए अब मुझे चलने की।
- 🗸 ः अब मुझे चलने की आज्ञा दीजिए।
- 🔀 4. मुझे चलने की आज्ञा दीजिए अब।

Ouestion ID: 7193992762

Status: Answered

Chosen Option: 3

निम्नलिखित में से एकवचन कौन सा है?

- 🗙 1. गुरुजन
- X 2. अध्यापिकाएँ
- 🔀 ३. पुड़ियाँ
- √ 4. बिटिया

Question ID: 7193992769

Status: Answered

Chosen Option: 4

^{Q.27} 'गुड़ गोबर करना' मुहावरे का अर्थ होगा:

- Ans X 1. काम बनाना
 - X 2. काम करते जाना
 - X 3. काम पर ध्यान न देना
 - √ 4 बने बनाए काम को बिगाडना

Question ID: 7193992759

Status: Answered

Chosen Option: 4

यात्री का पर्याय नहीं है:

Ans

- Х 1. राहगीर
- 🗶 2. मुसाफ़िर
- **√**3. हमसफ़र
- **X** 4. राही

Question ID: 7193992755

Status: Answered

Chosen Option: 3

स्त्रीलिंग पुल्लिंग का अशुद्ध युग्म है:

X 1 शिक्षक - शिक्षिका

X 2. लाला - ललाइन

X 3. संचालक - संचालिका

४ ⁴. सेठ - सेठनी

Ouestion ID: 7193992770 Status: Answered

Chosen Option: 4

कौन सा शब्द युग्म वचन कि दृष्टि से श्द्र है:

🗸 ा. शाखा - शाखाएँ

X 2. सञ्जनता - सञ्जनों

X 3. रात - रात्री

🗙 4. वर्षा - वर्षाओं

Question ID: 7193992768

Status: Answered

Chosen Option: 1

^{Q.31} 'वैध' का विलोम होगा:

Ans X 1. 위로

X 2. वैधानिक

X 3. मार्थक

√ 4. भवैधा

Question ID: 7193992758

Status: Answered

Chosen Option: 4

Q.32 निम्नलिखित में से कौन सा तद्भव शब्द है:

√ 1. तीरथ

X 2. **नयन**

X 3. पक्षी

X 4. पञ

Question ID: 7193992754

Status: Answered

Chosen Option: 1

^{Q.33} गेंहूँ का तत्सम रूप है:

Ans X 1. फ़सल

🔀 २. अनाज

X ₃. आटा

🗸 ४. गोधूम

Question ID: 7193992752

Status: Answered Chosen Option: 4

आज वह ____ में भाग ले रहा है। सही शब्द से रिक्त स्थान भरिए:

- 🗸 1. घुड़दौड़
- 🗙 २. घुड़दौड़ी
- 🗙 ३. घोड़ा दौड़
- 🗡 ४. घोड़े दौड़

Question ID: 7193992767

Status: Answered

Chosen Option: 1

विलोम शब्द का कौन सा युग्म सही है:

- 🗡 1. शोक-शौक
- 🗶 2. पक्ष-पक्षधर
- X 3. जान-विज्ञान
- **४** ⁴. खरा-खोटा

Question ID: 7193992757

Status: Answered

Chosen Option: 4

Q.36 घड़ी के लिए तत्सम शब्द होगा:

- Ans X 1. घडा
 - X 2. घटा
 - X 3. घट
 - √ 4. घटिका

Question ID: 7193992751

Status: Answered

Chosen Option: 4

^{Q.37} 'बढ़ा चढ़ाकर बात करना' वाक्यांश के लिए उचित मुहावरा होगा:

- √ ¹ नमक मिर्च लगाना
- X 2. चार चाँद लगाना
- 🗙 ३. नानी याद आना
- 🗙 ४. जहर उगलना

Question ID: 7193992760 Status: Answered

Chosen Option: 1

Q.38 सोना का पर्याय है:

Ans

🗙 1. ताम

- √ 2.
 ҳ-a
 vi
- X ₃ रजत
- ★ 4. हीरक

Question ID: 7193992756 Status: Answered Chosen Option: 2

^{0.39} यमक अलंकार का उदाहरण है:

Ans

- X 1. लगा दी किसने आकर आग।
- X 2 यह काया है या शेष उसी की छाया।
- X 3. सागर सा गंभीर हृदय हो।
- 🗸 4. कनक कनक ते सौ गुनी, मादकता अधिकाय।

Question ID : **7193992765**Status : **Answered**Chosen Option : **3**

Q.40 'चमड़ी जाए पर दमड़ी न जाए' लोकोक्ति का अर्थ होगा:

Ans

- 🔀 1. आपस में फूट पड़ना
- X 2 धन की हानि होना
- X 3. चोट लगना
- √ 4 अत्यधिक कंजूस होना

Question ID: 7193992761 Status: Answered Chosen Option: 4

Section: General Awareness

Q.1 Which of the following chief ministers has been conferred the Skoch Chief Minister of the Year Award for 2018?

Ans

- Naveen Patnaik
- X 2. Vijay Rupani
- X 3. Nitish Kumar
- 4. Mamata Banerjee

Question ID: 7193992773 Status: Answered Chosen Option: 1

Q.2 A cell is enclosed by a thin outer layer called:

- √ ¹. Cell membrane
- X 2. Nucleus
- X 3. Celluloid
- X 4. Cell guard

Question ID: 7193992796 Status: Answered

Chosen Option: 1

Q.3 Which of the following Indian women weightlifters won gold medal in the Commonwealth Games 2018?

Ans

- Yandna Gupta
- X 2. Saraswati Rout
- X 3. Purnima Pandey
- 4. Punam Yaday

Question ID : **7193992779**Status : **Answered**Chosen Option : **4**

Q.4 Which country has ventured into the Internet of Things (IoT) with the launch of a new satellite system named 'Marathon'?

Ans

- 1. Russia
- X 2. China
- X 3. United Kingdom
- X 4. United States of America

Question ID: 7193992777 Status: Answered

Chosen Option: 1

Q.5 Which country won the FIFA Football World Cup 2018 held in Russia?

Ans

- X 1. Croatia
- X 2. India
- √ 3. France
- X 4. Germany

Question ID: 7193992781 Status: Answered

Chosen Option: 3

Q.6 Department of Industrial Policy and Promotion (DIPP), in partnership with energy companies, has launched the ______ Programme for startups in energy sector.

Ans

- Collaborate to Innovate
- 2. Integrate to Innovate
- 3. Integrate to Excel
- X 4. Collaborate to Excel

Question ID : 7193992792 Status : Answered

Chosen Option: 1

Q.7 Which one of the following is the most populous city or urban agglomeration by population in India?

- X 1. Chennai
- X 2. Kolkata
- X 3. New Delhi
- 4. Mumbai

Question ID: 7193992799 Status: Answered

Chosen Option: 3

Which Indian city is declared the first World Heritage City by UNESCO?

Ans

- X 1. Hyderabad
- 2. Ahmedabad
- X 3. Banaras
- X 4. Delhi

Question ID: 7193992797 Status: Answered Chosen Option: 3

Q.9 What is the amount of dividend paid by RBI to Indian Government for FY 2018?

Ans

- √ 1. ₹ 50,000 Crore
- X 2. ₹ 20,000 Crore
- X 3. ₹ 10,000 Crore
- X 4. ₹ 80,000 Crore

Ouestion ID: 7193992791 Status: Answered Chosen Option: 1

Q.10 Who has been appointed as interim director of the Central Bureau of Investigation (CBI) in October 2018?

Ans

- X 1. Manish Sinha
- X 2. Rakesh Asthana
- X 3. Dineswar Prasad
- 4. M. Nageswara Rao

Question ID: 7193992774 Status: Answered Chosen Option: 4

Q.11 Which country has unveiled the world's first floating nuclear power station?

- X 1. United Kingdom
- X 2. Germany
- √ 3. Russia
- Va. United States of America

 A price of A

Question ID: 7193992778 Status: Answered

Chosen Option: 3

Q.12 Name the novel that features India's national song 'Vande Mataram'?

- 1. Anand Math
- X 2. Kapalkundala
- X 3. Rajsimha
- 4. Durgeshnandini

Question ID: 7193992785 Status: Answered

Chosen Option : 1

Q.13 Which among the following is a base?

Ans

- √ 1. NaOH
- X 2. HCl
- X 3. H₂SO₄
- X 4. HNO3

Question ID: 7193992794

Status: Answered

Chosen Option: 1

Q.14 Where there is only one House of the Legislature of a state, it is known as:

Ans

- √ 1. The Legislative Assembly
- X 2. The Council of States
- X 3. The Legislative Council
- X 4. The House of the People

Question ID: 7193992787

Status : Answered

Chosen Option: 1

Q.15 How many security and intelligence agencies have been authorised by the government to intercept, monitor and decrypt any information generated, transmitted, received or stored in any computer, as per government notification dated 20th December 2018?

Ans

- X 1. 6
- **2**. 10
- X 3. 8
- X 4. 12

Question ID: 7193992772

Status: Answered

Chosen Option : ${\bf 3}$

Q.16 What is the name of the app launched by Union Ministry of Commerce and Industry for exporters and importers of the country?

Ans

- 1. Vyapar Vikas
- X 2. Vyapar Mitra
- X 3. Aayat Mitra
- 4. Niryat Mitra

Question ID: 7193992793

Status: Answered

Chosen Option : 4

Q.17 Which of the following sportspersons was given Khel Ratna Award 2018?

- 1 Mirabai Chanu
- X 2. P. V. Sindhu

- X 3. Tejaswini Savant
- X 4. M. C. Mary Kom

Question ID: 7193992782 Status: Answered

Chosen Option : 1

Q.18 Which of the following articles of the Constitution of India deals with the creation of Legislative Councils in States?

Ans

- X 1. Article 233
- X 2. Article 121
- ✓ 3. Article 169
- X 4. Article 223

Question ID: 7193992788
Status: Answered

Chosen Option: 4

Q.19 Which Nawab of Bengal was defeated by the British forces in the Battle of Plassey in 1757?

Ans

- X 1. Mir Jafar
- X 2. Sarfaraz Khan
- ✓ 3. Siraj-ud-daula
- X 4. Mir Qasim

Question ID: 7193992783 Status: Answered

Chosen Option: 4

Q.20 Which military communication satellite was launched by the Indian Space Research Organization (ISRO) in December

Ans

- √ 1. GSAT-7A
- X 2. GSAT-11
- X 3. GSAT-17
- X 4. GSAT-6A

Question ID: 7193992775

Status : **Answered** Chosen Option : **4**

Q.21 Which of the following countries has introduced a contribution-based social security scheme for formal sector workers in November 2018?

Ans

- X 1. Maldives
- X 2. Myanmar
- 3. Nepal
- X 4. Sri Lanka

Question ID : **7193992776** Status : **Answered**

Chosen Option: 1

Q.22 Who penned the novel 'A Suitable Boy'?

Ans

X 1 Amitav Ghosh

√ 2. Vikram Seth

	X 3. Shashi Tharoor	
	★ 4. Vikram Chandra	
		Question ID : 7193992800 Status : Answered Chosen Option : 2
Q.23	The total number of ministers, including the Chief Minister, in the Council of Ministers of the total number of members of	in a state cannot exceed
Ans	↑ 10 %; the Lok Sabha	
	× 2. 10 %; the Legislative Assembly of that state	
	X 3. 20 %; the Lok Sabha	
	√ 4. 15 %; the Legislative Assembly of that state	
		Question ID : 7193992786 Status : Answered Chosen Option : 4
Q.24	Which of the following Articles of the Constitution of India deals with ancillary power	s of the Supreme Court?
Ans	➤ 1. Article 85	
	× 2. Article 186	
	✓ 3. Article 140	
	X 4. Article 63	
		Question ID : 7193992790
		Status : Answered Chosen Option : 1
Q.25	An Ordinance promulgated under Article 213 of the Constitution of India can	he withdrawn by the
Ans	X ¹. Home Minister	
	× 2. Vice-President	
	✓ 3. Governor	
	★ 4. Finance Minister	
		Question ID : 7193992789
		Status : Answered Chosen Option : 3
		элээл эрлэл
Q.26	Name the Sultan of Delhi who shifted his capital from D	elhi to Deogiri?
Ans	√ 1. Muhammad Bin Tughlak	
	× 2. Qutbuddin Aibak	
	X 3. Alauddin Khilji	
	★ 4. Ibrahim Lodhi	
		Question ID : 7193992784 Status : Answered
		Chosen Option : 1
Q.27	The distance-time graph is steeper for ob	jects.
Ans	★ 1. oscillating	

- X 2. non-moving
- √ 3. faster
- X 4. slower

Question ID: 7193992795

Status: Answered

Chosen Option: 3

Q.28 Which country's player has P. V. Sindhu defeated to win her maiden World Tour Finals title in December 2018?

Ans

- X 1. China
- 2. Japan
- X 3. South Korea
- X 4. Indonesia

Question ID : 7193992780 Status : Answered

Chosen Option: 2

Q.29 Which former Indian diplomat has been elected to an Asia Pacific seat on the UN's Committee on Economic, Social and Cultural Rights (CESCR)?

Ans

- X 1. Shivshankar Menon
- X 2. Vikas Swarup
- X 3. Lakshmi Puri
- ✓ 4. Preeti Saran

Question ID: 7193992771

Status: Answered

Chosen Option : 1

Q.30 Where is the Gahirmatha Marine Wildlife Sanctuary located?

Ans

- X 1. Kerala
- X 2. Goa
- X 3. Maharashtra
- 4. Odisha

Question ID: 7193992798

Status : Answered

Chosen Option: 4

Section: General Aptitude

Q.1 The total number of factors of $8 \times 18^4 \times (35)^8$ is:

Ans

- 1. 5832
- X 2. 1792
- X 3. 3584
- X 4. 90

Question ID: 7193992821

Status : Answered

Chosen Option : 1

A person marks his goods 25% above the cost price. He sells 40% of the goods at the marked price, 35% at 12% discount and remaining at 16% discount. What is his overall gain percent?

Ans

X 1. 16.25%

X 2. 15.75%

X 3. 15.25%

√ 4. 14.75%

Question ID: 7193992827 Status: Answered

Chosen Option : 2

Q.3 The average of 19 numbers is 72. The average of the first 10 numbers is 65 and the average of the last 10 numbers is 74. If the 10th number is excluded, what is the average of the remaining numbers, correct to one decimal place?

Ans

X 1. 75.1

X 2. 74.6

X 3. 75.3

4. 74.8

Question ID : 7193992826 Status : Answered Chosen Option : 3

Q.4 The HCF of two numbers is 18 and their product is 13608. If both are three-digit numbers, what is the sum of their reciprocals?

Ans





$$\times$$
 3. $\frac{15}{756}$

$$\times$$
 4. $\frac{15}{378}$

Question ID: 7193992822 Status: Answered

Chosen Option : 2

Q.5 Study the following sequence carefully and select the number that will correctly replace the question mark (?) in it.

628:16,593:17,495:18,315:?

Ans

X 1. 15

X 2. 29

X 3. 10

4. 09

Question ID : 7193992806 Status : Answered

Chosen Option: 4

Q.6 Two vessels A and B contain spirit and water in the ratio 3:4 and 5:8 respectively. Their contents are mixed in the ratio 7:13. In 200 ml of this solution, how much water should be mixed to get a solution containing spirit and water in the ratio 4:9?

Ans

X 1. 42 ml

X 2. 49 ml

X 3. 56 ml

Question ID: 7193992828

Status: Answered

Chosen Option: 3

Q.7 If $\sqrt{52 - 30\sqrt{3}} = a + b\sqrt{3}$, then (a + b) is equal to:

Ans

- X 1. 4
 - X 2. -4
 - **√**3. **–**2
 - X 4. 2

Question ID: **7193992819** Status: **Answered**

Chosen Option: 3

Q.8 Select the option that is related to the third term in the same way as the second term is related to the first term.

Reading: Knowledge:: Work:?

Ans

- X 1. Employment
- X 2. Engagement
- √ 3. Experience
- X 4. Experiment

Question ID: 7193992803

Status: Answered

Chosen Option: 3

Q.9 Sakshi is the wife of Nilesh. Ravi is the only grandson of Saroj, who is the wife of Dinesh and Mother-in-law of Sakshi. How is Nilesh related to Dinesh?

Ans

- X 1. Nephew
- 2. Son
- X 3. Son-in-law
- X 4. Grandson

Question ID: 7193992815

Status : Answered

Chosen Option: 2

Q.10 Arrange the following words to form a meaningful sentence.

Taj Mahal	at	A	quick	look
5	1	3	2	4

Ans

- X 1. 1, 2, 3, 4, 5
- × 2. 4, 3, 2, 1, 5
- X 3. 5, 1, 2, 3, 4
- 4. 3, 2, 4, 1, 5

Question ID : 7193992811 Status : Answered

Chosen Option: 4

Q.11 What is the sum of digits of the least number that should be subtracted from 839648 to make it a perfect square?

Ans 1. 14

× 2. 12

X 3. 15

4. 16

Question ID : 7193992816 Status : Answered Chosen Option : 1

Q.12 In a code language, SUNSET is written as RTMRDS. How will CHALK be written as in that language?

Ans

X 1. JKZJB

X 2. BJZKJ

X 4. JKZGB

Question ID: 7193992808 Status: Answered Chosen Option: 3

Q.13 Ram's mother is also my sister's mother. How is Ram related to me?

Ans

X 1. Sister

X 2. Uncle

X 3. Cousin

4. Brother

Question ID : **7193992812** Status : **Answered** Chosen Option : **4**

Q.14 Select the option that is related to the third term in the same way as the second term is related to the first term.

Horse: Jockey:: Car:?

Ans

X 1. Brake

√ 2. Chauffeur

X 3. Steering

X 4. Mechanic

Question ID : **7193992802**Status : **Answered**Chosen Option : **2**

Q.15 Arrange the following words in the order in which they appear in an English dictionary.

Funny	Fantastic	Fictitious	Frivolous	Fickle
5	1	3	2	4

Ans

X 1. 1, 2, 4, 3, 5

X 2. 1, 3, 4, 2, 5

X 3. 1, 5, 2, 4, 3

4. 1, 4, 3, 2, 5

Question ID : 7193992804 Status : Answered

Question ID: 7193992805

Status: Answered Chosen Option: 4

Q.21 Arjun is facing towards the south. From there, he walks 15 m towards the east, then 20 m towards the north, then 15 m towards the east and then 20 m towards the north to reach point B. What is the shortest distance between his starting point and point B?

Ans

X 1. 70 m

X 2. 25 m

✓ 3. 50 m

X 4. 60 m

Ouestion ID: 7193992813

Status: Answered

Chosen Option: 3

The value of $0.\overline{6} + 0.4\overline{9} + 0.4\overline{32}$ is equal to:

Ans

X 1. 1.589

√ 2. 1.598

X 3. 1.489

X 4. 1 6 03

Question ID: 7193992820

Status: Answered

Chosen Option: 3

Q.23 The unit's digit in the result of $(41)^{20} + (23)^{41} - 27^{18}$ is:

Ans X 1. 4

X 2. 3

X 3. 9

4. 5

Question ID: 7193992818

Status: Answered

Chosen Option: 4

Q.24 If a:b=4:5 and c:b=2:3, then what is the value of a:b:c?

Ans X 1. 15:10:8

X 2. 12:5:10

√ 3. 12:15:10

X 4. 8:10:15

Question ID: 7193992824

Status: Answered

Chosen Option: 3

Q.25 A sum of ₹ 16,600 is invested at the rate of 10 % per annum, interest being compounded half yearly, for 15 months. What is the percentage increase in the sum at the end of 15 months, correct to one decimal place?

Ans

X 1. 12.8 %

X 2. 13.2 %

Question ID: 7193992825 Status: Answered

Chosen Option : 2

Q.26 The efficience of A is 30 % less than that of B. If working together, they can complete a certain piece of work in 20 days, in how many days A alone will complete 70 % of that same work?

Ans

- X 1. 36
- **2**. 34
- X 3. 35
- X 4. 32

Question ID: 7193992830 Status: Answered Chosen Option: 3

Q.27 With which smallest digit should letter 'x' in the number 538x25 be substituted so that the number becomes divisible by 15?

Ans

- 🗸 1. 🚶
- X 2. 7
- X 3. 4
- X 4. 5

Question ID : 7193992823 Status : Answered

Chosen Option: 3

Q.28 If 1 January 2018 was a Monday, then what day was it on 1 January 2019?

Ans

- √ 1. Tuesday
- X 2. Monday
- X 3. Wednesday
- X 4. Sunday

Question ID: 7193992810

 ${\tt Status:} \ \textbf{Answered}$

Chosen Option: 1

Q.29 In a code language, SUN is written as NUS. How will MAT be written as in that language?

Ans

- X 1. MUT
- ✓ 2. TAM
- X 3. MAT
- X 4. TUM

Question ID: 7193992807 Status: Answered Chosen Option: 2

Q.30 The sum of the first 40 terms of $\frac{1}{4 \times 8} + \frac{1}{8 \times 12} + \frac{1}{12 \times 16} + \dots$ is:

Ans

/ 1. 5 82







Question ID : **7193992817** Status : **Answered**

Chosen Option: 3

Section: Teaching Aptitude

Q.1 Teaching about the currency used by the Cholas by showing a coin of that time kept in a museum in the real time is an example of teaching.

Ans

X 1. working model

X 2. sectional model

√ 3. Realia

X 4. Diorama

Question ID : 7193992848 Status : Answered

Chosen Option: 1

Q.2 Which of the following should be an objective of teaching social science at secondary level?

Ans



To enable children to critically examine social and economic issues and challenges like poverty, child labour, destitution, illiteracy and various other dimensions of inequality



To develop in the children an understanding about the earth as the habitat of humankind and other forms of life



To sensitise the children to social issues and develop in them a respect for difference and diversity



To develop in the children skills of observation, identification and classification

Question ID : **7193992846**Status : **Answered**Chosen Option : **3**

Q.3 The subsystem of a language that deals with the rules of word order and word combinations to form phrases and sentences is known as:

Ans

1 morphology

X 2. phonology

3. syntax

X 4. semantics

Question ID : **7193992841**Status : **Answered**Chosen Option : **4**

Q.4 While teaching science to students, knowledge about cognitive tasks, including appropriate contextual and conditional

Ans

√ 1. metacognitive knowledge

2. procedural knowledge

X 3. factual knowledge

4. conceptual knowledge

Question ID: 7193992847 Status: Answered

Chosen Option: 2

Mary is a seventh grade teacher. She has a unique ability to sense the feelings and experiences of her students and fully Q.5 appreciates them as if they are her feelings. What is the correct term that can be used to describe Mary's personality?

Ans

- ✓ 1. Empathetic
- X 2. Reflective
- X 3. High acceptance
- X 4. Genuine

Ouestion ID: 7193992850

Status: Answered

Chosen Option: 1

Q.6 Which of the following attributes of educational objectives of teaching science falls under the psychomotor domain?

Ans

- 1 Responding
- X 2. Valuing
- X 3. Receiving
- 4. Articulation

Question ID: 7193992843 Status: Answered Chosen Option: 4

Q.7 Identify the model of inclusive education in which a student is included during regular education classroom instruction to provide the student appropriate interaction with non-disabled peers. The student is given shortened assignments.

Ans

- Non-academic model
- 2. Social mainstreaming model
- X 3. Self-contained model
- 4. Pull-out (resource) model

Ouestion ID: 7193992845 Status: Answered Chosen Option: 2

Who quoted the following on education?

"Education which will offer the tools whereby one can live for the divine, for the country, for oneself and for others and this must be the ideal of every school which calls itself national."

- 1. Rabindranath Tagore
- √ 2. Sri Aurobindo
- X 3. Mahatma Gandhi
- X 4. Swami Vivekananda

Question ID: 7193992835 Status: Answered Chosen Option: 2

Q.9 Which of the following is the first law or primary law of learning as per Thorndike?

Ans

1 Law of Multiple Response

- 2. Law of Readiness
- X 3. Law of Exercise
- X 4. Law of Effect

Question ID : **7193992837** Status : **Answered**

Chosen Option : $\boldsymbol{2}$

Q.10 Which of the following is NOT a factor affecting social development?

Ans

- ★ 1. Socio-economic status
- X 2. Imitation and identification
- X 3. School experiences
- 4. Evolutionary impact

Question ID: **7193992833**Status: **Answered**Chosen Option: **4**

Q.11 The processing of cognition influenced by stored knowledge brought through senses is called:

Ans

- X 1. lateral processing
- × 2. sideways processing
- √ 3. top-down processing
- 4. bottom-down processing

Question ID : 7193992834 Status : Answered

Chosen Option: 4

Q.12 Anil, a 4-year-old, looks at two jars meant to be filled with candies. One is a tall, thin jar and the other one is a short, wide jar. Equal number of candies are filled in each of these jars. Anil infers that the tall, thin jar has more candies than the short, wide one. Which of the following aspects has Anil NOT acquired as per Piaget?

Ans

- Memory
- X 2. Imagination
- √ 3. Concept of conservation
- X 4. Social concept

Question ID: 7193992832

Status : Answered

Chosen Option : 3

Q.13 Which of the following is a NOT a characteristic of a usable hypothesis?

Ans

- 1. It has to be lengthy with high vocabulary usage.
- 2. It should be capable of being tested.
- 3. It should have conceptual clearness.
- 4. It should be closest to things observable.

Question ID : 7193992849 Status : Answered

Chosen Option: 2

Q.14	Which of the following schemes of the Government of India seeks to bring about qualitative improvement in Madrasas to enable Muslim children attain standards of the national education system in formal education subjects?					
Ans	X 1. NIOS					
	× 2. NAS					
	X 3. IDMI					
	✓ 4. SPQEM					
		0				
		Question ID : 7193992836 Status : Answered				
		Chosen Option : 3				
Q.15	Anoopa uttered the first word at the age of 11 months and began to play alone with her doll a schedules of development are called:	at the age of 2 years. These				
Ans	★ 1. learning phases					
	× 2. stepwise development					
	× 3. growth phases					
	✓ 4. milestones of development					
	endig the country to the ended states and the state of t					
		Question ID : 7193992831 Status : Answered				
		Chosen Option : 3				
Q.16	When the function of a language is to cause or prevent actions, it is called the	function of a language.				
Ans	★ 1. expressive					
	✓ 2. directive					
	→ 3. explorative					
	× 4. informative					
		Ouestion ID : 7193992840				
		Status : Answered				
		Chosen Option : 2				
Q.17	A student trying to solve a mathematical problem to get 'A' grade in his assignment is an Identify the type of attention as described by psychologist Ross.	example of				
Ans	✓ 1. volitional attention					
	★ 2. focused attention					
	★ 3. non-volitional attention					
	× 4 involuntary attention					
		Question ID : 7193992838				
		Status : Answered				
		Chosen Option : 2				
Q.18	The first step in the acquisition of a language is thr	ough:				
Ans	✓ 1. listening					
	× 2. reading					
	X ₃ speaking					
	× 4. writing					
	- Constitution Co					
		Question ID : 7193992842 Status : Answered				

Latest Sarkari Jobs, Govt Exam Results, Vacancies and updates on one click Q.19 Which of the following instruments is used to measure attention span?

Ans

- X 1. Stroboscope
- X 2. Kinetoscope
- 3. Tachistoscope
- X 4. Stereoscope

Question ID: 7193992839 Status: Answered

Chosen Option: 1

Q.20 The ability to perceive existing gender differences and issues and incorporate them into strategies and actions is called:

- X 1. gender equity
- √ 2. gender sensitivity
- X 3. gender parity
- X 4. gender awareness

Question ID: 7193992844 Status: Answered

Chosen Option: 4

Section: Concerned Subject Knowledge

0.1 The principal value of $\sin^{-1}\left(-\frac{\sqrt{3}}{2}\right) + \cos^{-1}\left(\cos\left(\frac{7\pi}{6}\right)\right)$ is:

Ans

- \times 2. $\frac{3\pi}{2}$
- χ 3. $\frac{5\pi}{\epsilon}$
- \times 4. $\frac{\pi}{3}$

Question ID: 7193992884 Status: Answered

Chosen Option: 1

If y is a solution of the equation $(1+x)\frac{dy}{dx} - xy = 1$, y(0) = -1, then y(1) is equal to:

Ans

- X 1. 1/2
 - \times 2. e + 1/2
 - $\sqrt{3.} 1/2$
- \times 4. e -1/2

Question ID: 7193992891 Status: Answered

Chosen Option: 2

The value of x for $\sin[\cot^{-1}(x+1)] = \cos[\tan^{-1}(x)]$ is:

X 1. 0

- X 2. 1
- X 3. 1/2
- $\sqrt{4.-1/2}$

Question ID: 7193992883 Status: Answered Chosen Option: 4

Q.4 The value of the expression $\frac{1}{(\sqrt{3})\sin 250^{\circ}} + \frac{1}{\cos 290^{\circ}}$ equals:

Ans

- $X 1. \frac{2}{\sqrt{3}}$
- $X = \frac{\sqrt{3}}{2}$
- $\sqrt{3}$ 3. $\frac{4}{\sqrt{3}}$
- X 4. $\frac{\sqrt{3}}{4}$

Question ID: 7193992879 Status: Answered Chosen Option: 1

Q.5 Which of the following functions is differentiable at x = 0?

Ans

- \times 1. $\cos(|x|) + |x|$
- \checkmark 2. $\sin(|x|) |x|$
- \times 3. $\sin(|x|) + |x|$
- \times 4. $\cos(|x|) |x|$

Question ID: 7193992887 Status: Answered Chosen Option: 1

Q.6 Let a and b be two positive integers. Then gcd(a,b). lcm(a,b) equals:

- Ans \times 1. a b
 - \times 2. a + b
 - √ 3. ab
 - X 4. a/b

Question ID: 7193992865 Status: Answered Chosen Option: 3

Q.7 If A is the area formed by the positive x-axis, and the normal and tangent to the circle $x^2 + y^2 = 4$ at $(1, \sqrt{3})$, then $\frac{A}{\sqrt{2}}$ equals:

- Ans X 1. 1
 - \times 2. $\frac{2}{\sqrt{3}}$
 - **3**. 2
 - X 4. 4

Question ID: 7193992888

Status : Answered

Chosen Option: 1

Q.8 If the mean of a set of 10 observations $x_1, x_2, ..., x_{10}$ is 30, then the mean of $x_1 + 5, x_2 + 10, ..., x_{10} + 50$ is:

Ans

- X 1. 27.5
- **√** 2. 57.5
- X 3. 53.5
- X 4. 59.5

Question ID : **7193992899** Status : **Answered** Chosen Option : **2**

Q.9 If 3x + 2y + z = 0, x + 4y + z = 0, 2x + y + 4z = 0 is a system of equations, then:

Ans 🗙

it can be reduced to a single equation and therefore a solution does not exist.

- \checkmark 2. it has only the trivial solution x = 0, y = 0, z = 0.
- X 3. the determinant of the matrix coefficient is zero.
- X 4. it is inconsistent.

Question ID: 7193992873 Status: Answered Chosen Option: 2

Q.10 A basis for the range of the transformation $T: R^3 \to R^3, T\left(\begin{bmatrix} x \\ y \\ z \end{bmatrix}\right) = \begin{bmatrix} x \\ y \\ 0 \end{bmatrix}$ is given by:

Ans

- \times 1. $\left\{\begin{bmatrix}1\\0\\0\end{bmatrix},\begin{bmatrix}0\\1\\0\end{bmatrix},\begin{bmatrix}0\\0\\1\end{bmatrix}\right\}$
- \times 2. $\begin{bmatrix} 1 \\ 1 \\ 0 \end{bmatrix}$, $\begin{bmatrix} 0 \\ 1 \\ 0 \end{bmatrix}$
- \checkmark 3. $\left\{\begin{bmatrix}1\\0\\0\end{bmatrix},\begin{bmatrix}0\\1\\0\end{bmatrix}\right\}$
- \times 4. $\left\{\begin{bmatrix}1\\0\\0\end{bmatrix},\begin{bmatrix}1\\1\\0\end{bmatrix}\right\}$

Question ID : **7193992908**Status : **Answered**Chosen Option : **3**

Q.11 In a class of 25 students, 12 have taken mathematics, 8 have taken mathematics and computer science. The number of students who have taken computer science but NOT mathematics is:

Ans

- **1.** 13
- X 2. 8
- X 3. 4
- X 4. 17

Question ID : **7193992852** Status : **Answered** Q.12 Two girls and four boys are to be seated in a row in such a way that the girls do NOT sit together. In how many different ways can it be done?

Ans

- X 1. 360
- **2.** 480
- X 3. 240
- X 4. 720

Question ID: 7193992855

Status: Answered

Chosen Option: 2

Q.13 If $\vec{a} + \vec{b} + \vec{c} = 0$, $|\vec{a}| = 3$, $|\vec{b}| = 5$ and $|\vec{c}| = 7$, then the angle between \vec{a} and \vec{b} is:

Ans

- $X 1. \frac{\pi}{6}$
- \times 2. $\frac{2\pi}{3}$
- χ 3. $\frac{3\pi}{2}$
- $\sqrt{4}$. $\frac{\pi}{3}$

Question ID: 7193992892

Status : **Answered**

Chosen Option: 4

Q.14 If $tan(A-B) = \frac{1}{\sqrt{3}}$ and $tan(A+B) = \sqrt{3}$, then the values of A and B are respectively:

Ans

- √ 1. 45°, 15°
- × 2. 30°, 60°
- X 3. 30°, 30°
- X 4. 40°, 20°

Question ID: 7193992878

Status: Answered

Chosen Option: 1

Q.15 The radius of a sphere whose centre is (4, 4, -2) and which passes through the origin is:

Ans

- **V** 1. 6
 - **X** 2. 4
 - **X** 3. 1
 - X 4. 5

Question ID: 7193992897

Status: Answered

Chosen Option : 1

Q.16 The points with the position vectors $60\vec{i} + 3\vec{j}$, $40\vec{i} - 8\vec{j}$, $a\vec{i} - 52\vec{j}$ are collinear if the value of 'a' equals:

- X 1. 40
- **√** 2. **−40**
- X 3. 20
- X 4. 20

Ouestion ID: 7193992893 Status : Answered

Chosen Option: 2

Q.17 AB is a straight line and O is a point on the line AB. If one draws a line OC NOT coinciding with OA or OB, then the

Ans

- X 1. complementary
- X 2. together equal to 130°
- 3. supplementary
- X 4. equal

Question ID: 7193992875 Status: Answered

Chosen Option: 1

Q.18 If $A = f_{xx}(a,b)$, $B = f_{xy}(a,b)$ and $C = f_{yy}(a,b)$, then the function f(x,y) will have a maximum at the point (a,b) if:

- X 1. $f_x = 0$, $f_y = 0$, $AC < B^2$ and A > 0
- \times 2. $f_x = 0, f_y = 0, AC > B^2$ and A > 0
- X 3. $f_x = 0, f_v = 0, AC < B^2 \text{ and } A < 0$
- \checkmark 4. $f_x = 0, f_y = 0, AC > B^2 \text{ and } A < 0$

Question ID: 7193992909

Status: Answered

Chosen Option: 1

Q.19 The lines $\frac{x-1}{k} = \frac{y-4}{2} = \frac{z-5}{1}$ and $\frac{x-2}{1} = \frac{y-3}{1} = \frac{z-4}{-k}$ are coplanar if the value of k is:

- Ans X 1. 1
 - X 2. 2
 - \times 3. -2
 - **√** 4. **−** 3

Question ID: 7193992898

Status: Answered

Chosen Option: 2

 $\sin 7x + 6 \sin 5x + 17 \sin 3x + 12 \sin x$ equals: Q.20 sin6x+5sin4x+12sin2x

Ans X 1. sin X

X 2. 2 sin x

X 3. cos x

√ 4. 2 cos x

Question ID: 7193992881 Status: Answered

Chosen Option: 2

Let $A = \begin{pmatrix} 2 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 2 \end{pmatrix}$ and $B = \begin{pmatrix} 1 & 2 & 3 \\ 0 & 1 & 3 \\ 0 & 0 & 2 \end{pmatrix}$ be matrices. Then the determinant of AB equals:

X 2. 32

X 3. 4

Ouestion ID: 7193992872 Status: Answered

Chosen Option: 4

Q.22 The nature of singularity of the function $\tan (1/z)$:

- \times 1. z = 0 is an isolated singularity
- \times 2. z = 0 is an isolated essential singularity
- √ 3. z = 0 is a non-isolated essential singularity
- \times 4. z = 0 is a removable singularity

Question ID: 7193992910 Status: Answered

Chosen Option: 1

Q.23 Let f(x) be a continuous function defined for all x > 0 that satisfy f(x/y) = f(x) - f(y) for all x, y and f(e) = 1. Then:

Ans

X 1. f(x) is bounded

$$\checkmark$$
 2. $f(x) = log x$

$$\times$$
 3. $xf(x) \rightarrow 1$ as $x \rightarrow 0$

$$X$$
 4. $f\left(\frac{1}{x}\right) \to 0$ as $x \to 0$

Question ID: 7193992886

Status: Answered

Chosen Option: 2

- Q.24 If from each of the three boxes containing 3 red and 1 green;
 - 2 red and 2 green; 1 red and 3 green balls, one ball is drawn at random, then the probability that 2 red and 1 green ball

- Ans X 1. 1/32
 - X 2. 1/4
 - X 3. 3/16
 - 4. 13/32

Question ID: 7193992905

Status: Answered

Chosen Option: 4

Q.25 The coefficient of x^{2009} in the expansion of $(1-x)^{2008}(1+x+x^2)^{2007}$ is given by:

Ans

- X 1. 3
 - **2**. **0**
 - **X** 3. −1
 - X 4. 1

Question ID: 7193992860 Status: Answered

- Ans \times 1. 1/2
 - $\sqrt{2. 3/2}$
 - **X** 3. 0
 - \times 4. 1

Question ID: 7193992880 Status: Answered Chosen Option: 2

Q.27 The angle between the planes 2x + y + z = 7 and x - y + 2z = 9 is:

Ans

- √1. 60°
- X 2. 120°
- X 3. 90°
- X 4. 30°

Question ID: 7193992895 Status: Answered Chosen Option: 1

The number of solutions of $z^3 + \overline{z} = 0$ is:

- Ans X 1. 3
 - X 2. 4
 - X 3. 2
 - **4**. 5

Question ID: 7193992856 Status: Answered Chosen Option: 1

Q.29 If $I = \int \ln(x^2 + x) dx = x \ln x + (x + 1) = K$, then the value of K is equal to:

- Ans $\sqrt{1. C-2x}$
 - \times 2. $2x \ln(x+1) + C$
 - \times 3. $2x + \ln(x+1) + C$
 - X 4. constant

Question ID: 7193992890 Status: Answered

Chosen Option: 3

Q.30 The standard deviation of 8 observations 4.8, 4.2, 5.1, 3.8, 4.4, 4.7, 4.1 and 4.5 is:

Ans

- 1. 0.39
- X 2. 0.41
- X 3. 0.37
- X 4. 0.32

Question ID: 7193992903 Status: Answered

Chosen Option: 3

Q.31 A person walking along a straight road observes that at two points 1 km apart, the angle of elevation of a pole in front of the person is 30° and 75° . The height of the pole is:

- \times 1. 250($\sqrt{2}$ + 1) m
- \checkmark 2. 250($\sqrt{3}$ + 1) m
- \times 3. 250($\sqrt{3}$ 1) m
- \times 4. 250($\sqrt{2}-1$) m

Question ID: 7193992882

Status: Answered

Chosen Option: 3

Q.32 The sum of the 24 terms of the series $\sqrt{2} + \sqrt{8} + \sqrt{18} + \sqrt{32} + \cdots$ is:

- $\times 1.100\sqrt{2}$
- $\sqrt{2.300\sqrt{2}}$
- \times 3. 200 $\sqrt{2}$
- \times 4. 500 $\sqrt{2}$

Question ID: 7193992862

Status: Answered

Chosen Option: 2

Q.33 The diagonal of a rectangular field is 60 m more than the shorter side. If the longer side 30 m more than the shorter side, then the length of longer and shorter sides are

Ans

- √ 1. 120 m, 90 m
- X 2. 90 m, 60 m
- X 3. 150 m, 120 m
- X 4. 105 m, 75 m

Question ID: 7193992869 Status: Answered

Chosen Option: 1

Q.34 If $A = \begin{pmatrix} 0 & -i \\ i & 0 \end{pmatrix}$ and $B = \begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}$ are matrices, then AB + BA is:

- Ans X 1. a diagonal matrix
 - X 2. an invertible matrix
 - X 3. a unit matrix
 - 4. a null matrix

Ouestion ID: 7193992870

Status: Answered

Chosen Option: 1

Two consecutive positive integers, the sum of whose square is 365, are:

Ans

- X 1. 14, 15
- 2. 13, 14
- X 3. 12, 13
- X 4. 11, 12

Ouestion ID: 7193992868

Status : Answered

Chosen Option: 2

Q.36 Suppose a random variable X follows a Binomial distribution with parameters n=6 and p. If 9P(X=4)=P(x=2), then the value of p is:

Ans

- X 1. 1/3
- X 2. 1/2
- **X** 3. 1
- **4** 1/4

Question ID : 7193992906 Status : Answered Chosen Option : 2

Q.37 The least common multiple of 119 and 272 is:

Ans

- X 1. 102
- X 2. 119
- X 3. 272
- **4** 1904

Question ID : 7193992866 Status : Answered Chosen Option : 4

Q.38 For what values of k, the equations x + y + z = 1, 2x + y + z = k, $4x + y + 10z = k^2$ have a solution?

Ans

- X 1. 3, 4
- √ 2. 1, 2
- X 3. 0, 3
- \times 4. -1, 3

Question ID: 7193992874 Status: Answered Chosen Option: 3

The logarithm of $\frac{1}{256}$ to the base $2\sqrt{2}$ is:

Ans

- X 1. 8
- \checkmark 2. $\frac{-16}{3}$
- $X 3. \frac{-14}{3}$
- \times 4. $\frac{-8}{3}$

Question ID : **7193992863** Status : **Answered** Chosen Option : **4**

If $A = \begin{pmatrix} 1 & 0 & 2 \\ 5 & 1 & x \\ 1 & 1 & 1 \end{pmatrix}$ is a singular matrix, then the value of x is equal to:

Ans X 1. -11

- X 2. 11
- **3**. 9
- \times 4. -9

Question ID : **7193992871** Status : **Answered**

Chosen Option: 3

Q.41 Let $A = \{a, b, c, d\}$ and $B = \{1, 2, 3, 4, 5, 6\}$. Then the number of one-to-one functions from A to B is:

Ans

- **1.** 360
- X 2. 120
- X 3. 24
- X 4. 180

Question ID: 7193992853

Status: Answered

Chosen Option: 1

Q.42

The singular values of a matrix $A = \begin{bmatrix} 1 & 1 \\ 0 & 1 \\ 1 & 0 \end{bmatrix}$ are:

Ans

- **√** 1. 1,√3
- \times 2. $\sqrt{2}$, 3
- \times 3. $\sqrt{2}$, $3\sqrt{2}$
- \times 4. 1, $\sqrt{2}$

Question ID: 7193992907

Status: Answered

Chosen Option: 3

Q.43 The equation of a plane passing through the point (1, -1, 2) and parallel to the plane 3x + 4y - 5z = 0 is:

Ans

- x = 1. 3x + 4y 5z + 1 = 0
- \checkmark 2. 3x + 4y 5z + 11 = 0
- \times 3. 3x + 4y 5z 1 = 0
- \times 4. 3x + 4y 5z 11 = 0

Question ID: 7193992894

Status : Answered

Chosen Option: 2

Q.44 The mean deviation from the mean of the 2n observations a, a + d, a + 2d, ..., a + 2nd is:

Ans

- $\sqrt{1}$. $\frac{n(n+1)|d|}{2n+1}$
- \times 2. $\frac{n(n+1)d^2}{2}$
- \times 3. $a + \frac{n(n+1)d^2}{2}$
- \times 4. $\frac{n(n+1)d^2}{3}$

Question ID: 7193992901

Status : **Answered** Chosen Option : **3**

Q.45 The distance between two parallel lines 5x - 12y + 2 = 0 and 5x - 12y - 3 = 0 is given by:

Ans

- X 1. 1 / 17
- √ 2. 5 / 13
- X 3. 1 / 13
- X 4. 5 / 14

Question ID : 7193992876 Status : Answered

Chosen Option : 2

Q.46 If a, b, c are in A.P. as well as in G.P., then:

Ans

- X 1. $a = b \neq c$
- X^2 a \neq b \neq c
- X 3. $a \neq b = c$
- $\sqrt{4}$ a = b = c

Question ID: 7193992861 Status: Answered

Chosen Option : 4

Q.47 If gcd(a, b) = 1, then for any c,:

Ans

- \times 1. gcd(ac, b) = c gcd(a, b)
- \times 2. gcd(ac, b) = gcd(a, b/c)
- \times 3. gcd(ac, b) = gcd(a, c)
- \checkmark 4. gcd(ac, b) = gcd(c, b)

Question ID: 7193992864

Status : **Answered**

Chosen Option: 3

 $\lim_{x\to 0} \frac{\sin (\pi \cos^2 x)}{x^2} \text{ equals :}$

Ans

- X 1 1
- 2. π
- \times 3. $\frac{\pi}{2}$
- × 4. -π

Question ID : **7193992885** Status : **Answered**

Chosen Option: 4

Q.49 A letter is taken at random from the letters of the word "STATISTICS" and another letter is taken from the letters of the word "ASSISTANT". The probability that they are the same letter is:

- 1. 19/90
- × 2. 1/15
- X 3. 1/45
- X 4. 1/10

Question ID: 7193992904

Status : Answered

Chosen Option: 1

Q.50 The discriminant of the equation $x^2 + \frac{x}{\sqrt{2}} + 1 = 0$ is:

Ans

- X 1. 7
 - \times 2. 5
 - **√** 3. − 7
 - X 4. 4

Question ID: 7193992867

Status: Answered

Chosen Option: 3

Q.51 If a, b, c are nonnegative real numbers, then the minimum value of $\frac{a}{b+c} + \frac{b}{c+a} + \frac{c}{a+b}$ is:

Ans

- X 1. 2
- X 2. 5/2
- **√**3. 3/2
- X 4. 1

Question ID : **7193992858** Status : **Answered**

Chosen Option: 3

Q.52 Let a, b, c > 0 and abc = 1. Then the least value of $\frac{1}{a^2(b+c)} + \frac{1}{b^2(c+a)} + \frac{1}{c^2(a+b)}$ is given by:

Anc

- 1. 1.5
- X 2. 1
- X 3. 0.5
- X 4. 2

Question ID: 7193992859

Status : Answered

Chosen Option: 3

Q.53 The largest integer n for which 35! is divisible by 3ⁿ, is given by:

Ans

- X 1. 11
 - **2**. 15
 - X 3. 3
 - **X** 4. 1

Question ID : 7193992854

Status : **Answered**

Chosen Option: 2

Q.54 In a group of 70 persons, 37 like coffee, 52 like tea and each person likes at least one of the two drinks. How many like coffee but NOT tea?

- V 1. 18
- X 2. 17
- X 3. 13
- X 4. 16

Question ID : 7193992851 Status : Answered

Chosen Option : 1

Q.55 The variance of the first 20 natural numbers is:

Ans

- 1. 133/4
- X 2. 131/4
- X 3. 369/4
- X 4. 133/2

Question ID: 7193992900

Status: Answered

Chosen Option: 1

Q.56 If $z \neq 0$ and $z + \cos \theta + i \sin \theta = 3/z$, then the value of $2(z + \overline{z}) - |z|^2$ equals:

Ans

- 🖋 1. 🔞
- X 2. 2
- X 3. 1
- X 4. 4

Question ID: 7193992857

Status: Answered

Chosen Option: 2

The incentre of a triangle with vertices $(0, 0), (1, \sqrt{3})$ and (2, 0) is:

Ans

- \times 1. $\left(\frac{2}{3}, \frac{1}{\sqrt{3}}\right)$
- \checkmark 2. $\left(1,\frac{1}{\sqrt{3}}\right)$
- \times 3. $\left(1, \frac{\sqrt{3}}{2}\right)$
- \times 4. $\left(\frac{2}{3}, \frac{\sqrt{3}}{2}\right)$

Question ID: 7193992877

Status : **Answered**

Chosen Option: 2

Q.58 The equation of a sphere on the line joining the points (1, 5, 6) and (-2, 1, 1) as diameter is:

An

$$x^2 + y^2 + z^2 + 2x - 4y - 7z - 9 = 0$$

$$\times$$
 2. $x^2 + y^2 + z^2 - x + 6y + 7z - 9 = 0$

$$\checkmark 3. x^2 + y^2 + z^2 + x - 6y - 7z + 9 = 0$$

$$\times$$
 4. $x^2 + y^2 + z^2 + 6x - y - 4z + 5 = 0$

Question ID: 7193992896

Status : Answered

Chosen Option : 3

 $\lim_{x \to 0} \left(\sqrt{x + \sqrt{x + \sqrt{x}}} - \sqrt{x} \right)$ is equal to :

Ans 1. 0.5

× 3. log_e(2)

X 4. 0

Question ID : **7193992889** Status : **Answered** Chosen Option : **3**

Q.60 The mean of 5 items of an observation is 4 and the variance is 5.2. If three of the items are 1, 2 and 6, then the other two items are:

Ans

X 1. 3, 8

2. **4**, 7

X 3. 5, 6

X 4. 9, 2

Question ID: **7193992902** Status: **Answered**

Chosen Option : 3

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