## **Combined Graduate Level Examination 2020 Tier-I**

Roll Number	
Candidate Name	
Venue Name	
	16/08/2021
	3:00 PM - 4:00 PM
Subject	Combined Graduate Level Examination 2020 Tier 1

### Section: General Intelligence and Reasoning

Q.1 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

### Statements:

All dancers are talented. Some girls are dancers.

### Conclusions:

- I. Some girls are talented.
- II. All talented are girls.
- III. All girls are talented.

- X 1. Only conclusion III follows
  - X 2. Only conclusion II follows
  - 3. Only conclusion I follows
- X 4. Both conclusions I and II follow

Question ID: 81616112414

Status: Answered

Chosen Option: 3

Q.2 Select the option in which the numbers are related in the same way as are the numbers of the following set.

(16, 12, 32)

**Ans** X 1. (20, 15, 42)

**2**. (76, 57, 176)

**3**. (36, 27, 77)

**X** 4. (56, 24, 68)

Question ID: 81616112823

Status: Not Answered

Q.3 Select the number from among the given options that can replace the question mark (?) in the following series. 37, 52, 74, 104, 143, ? Ans **X** 1. 168 **X** 2. 176 **X** 3. 202 **4**. 192 Question ID: 81616113930 Status: Answered Chosen Option: 4 Q.4 Select the option that is related to the third word in the same way as the second word is related to the first word. Awful: Nice:: Nomadic:? Ans X 1. Nocturnal X 2. Careless X 3. Homeless 4. Settled Question ID: 81616113923 Status: Answered Chosen Option: 4 Select the option in which the given figure is embedded (rotation is NOT allowed). Ans

Question ID : 81616114142 Status : Answered

Q.6 The following Venn diagram shows the number of families who have visited three different places (Srinagar, Shimla, Gangtok)



What is the number of families who have visited at least two of the places out of Srinagar, Shimla and Gangtok?

Ans

- X 1. 27
- **2**. 49
- X 3. 15
- X 4. 34

Question ID : 81616112428 Status : Answered

Chosen Option: 2

Q.7 Pointing to the photograph of a girl, Raghav said, "She is my father's mother's daughter's only brother's daughter". How is Raghav's father related to that girl's mother?

Ans

- **X** 1. Son
- X 2. Maternal uncle
- 3. Husband
- X 4. Father

Question ID: 81616114130 Status: Answered

Chosen Option: 3

- Q.8 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.
  - 1. Success
  - 2. Surreal
  - 3. Succumb
  - 4. Suction
  - 5. Surrogate6. Surprise

Ans

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

Question ID: 81616113920

Status: Answered

Q.9 Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the number-pair that is different.

**Ans** X 1. 5237 : 4003

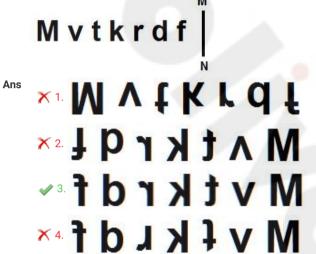
**2**. 4327 : 2003

X 3. 3527 : 2293

**X** 4. 2347 : 1113

Question ID : 81616112821 Status : Answered Chosen Option : 2

Q.10 Select the correct mirror image of the given combination when the mirror is placed at MN as shown.



Question ID : **81616114143**Status : **Answered** 

Chosen Option: 3

Q.11 Select the option in which the words share the same relationship as that shared by the given pair of words.

**Dentist: Hospital** 

Ans 💜 1. Professor: University

X 2. Criminal : Police Station

X 3. Doctor : Treatment

X 4. Engineer : Design

Question ID : **81616114126** Status : **Answered** 

Q.12 Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

BOARD, BOARW, BOAIW, ?, BLZIW, YLZIW

Ans

- X 1. BLZRW
- X 2. BOZRW
- X 3. BOAIW
- ✓ 4. BOZIW

Question ID : 81616114121 Status : Answered

Chosen Option: 4

Q.13 Four words have been given, out of which three are alike in some manner and one is different. Select the word that is different.

Δne

- X 1. Lethargic
- X 2. Passive
- 3. Vivacious
- X 4. Sluggish

Question ID: 81616112811 Status: Answered

Chosen Option: 3

Q.14 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

Ans

- X 1. BEHK
- 🗶 2. QTWZ
- X 3. XADG
- ✓ 4. NPSV

Question ID: 81616113921

Status: Answered

Chosen Option: 4

Q.15 Find the number of triangles in the given figure.

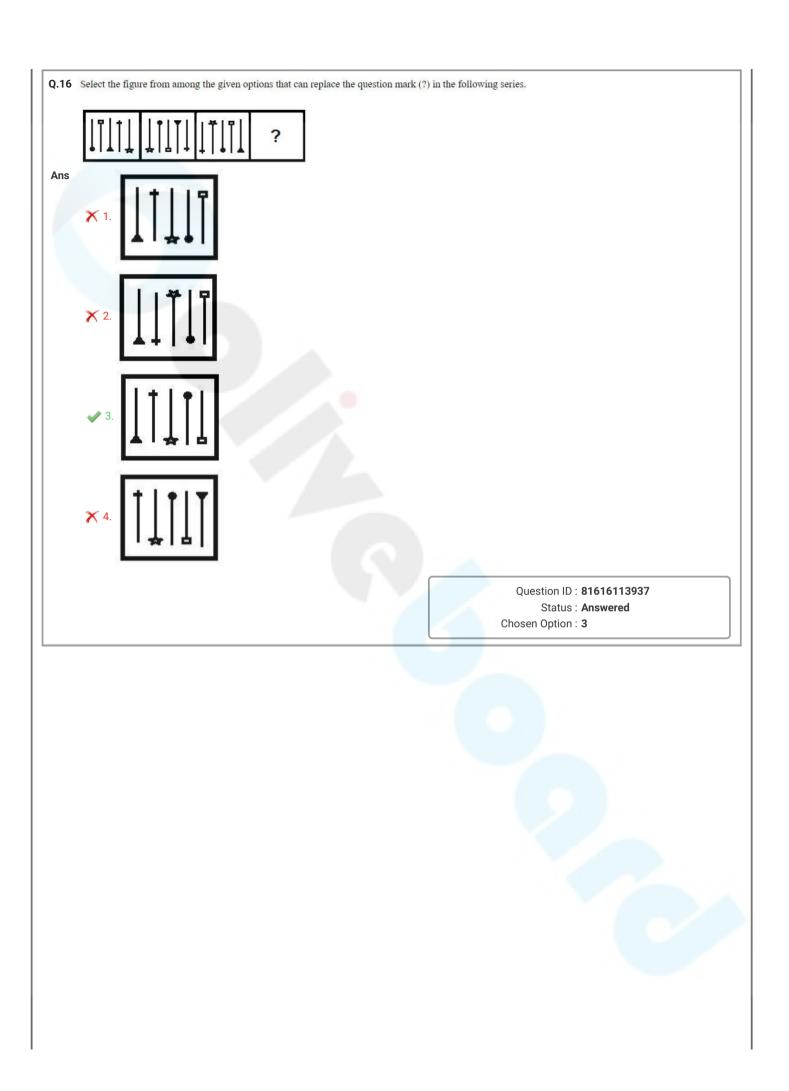


Ans

- X 1. 13
- × 2. 17
- X 3. 19
- √ 4. 15

Question ID: 81616112827

Status : Answered



Q.17 The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded? Ans 0 Question ID: 81616114144 Status: Answered Chosen Option: 1 Q.18 Select the option in which the numbers are NOT related in the same way as are the numbers of the following set. (7, 21, 49) **1**. (9, 27, 72) Ans **X** 2. (6, 18, 36) **X** 3. (5, 15, 25) **X** 4. (8, 24, 64) Question ID: 81616112418 Status: Answered Chosen Option: 2

Q.19 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

**Ans** X 1. b, e, b, f, c, k, e

2. b, f, b, e, c, k, e

X 3. b, f, b, c, e, k, e

X 4. b, f, b, e, c, e, k

Question ID: 81616114129

Status : **Answered** 

Chosen Option: 2

Q.20 When number X multiplied to its next number, the product 1260 is obtained. When Number X is added to Number Y, a total of 106 is obtained. Find the value of Number Y. (Assume numbers to be positive)

Ans X 1.77

**2**. 71

**X** 3. 61

**X** 4. 87

Question ID: 81616114138

Status : Answered

Chosen Option: 2

Q.21 Select the correct combination of mathematical signs that can sequentially replace the \* signs and balance the equation.

Ans X 1. +, -, ÷, ×, =, -, +

X 2. -, +, ×, ÷, -, +, =

√ 3. -, +, ÷, ×, -, +, =

X 4. -, +, ÷, ×, =, -, +

Question ID: 81616112824

Status : Answered

Q.22 A cube is made by folding the given sheet. In the cube so formed, what would be the letter on the face opposite the face showing the letter 'A'? 0 Ans X 1. V ✓ 2. I **X** 3. **E** X 4. U Question ID: 81616112828 Status: Answered Chosen Option: 2 Q.23 In a certain code language, 'AND' is written as 'C-LP-F' and 'NOR' is coded as 'P-MQ-T'. How will 'BUT' be written in that language? √ 1. D-SW-V Ans × 2. C-SU-V X 3. D-SW-U **★** 4. C-TV-W Question ID: 81616112410 Status: Answered Chosen Option: 1 Q.24 In a certain code language, 'SAFETY' is coded as '95' and 'EXPAND' is coded as '87'. How will 'GATHER' be coded in that language? **X** 1.90 Ans **2**. 86 **X** 3.88 **X** 4. 84 Question ID: 81616112815 Status: Not Answered Chosen Option: --Q.25 Select the option that is related to the third number in the same way as the second number is related to the first number. 21:445::24:? **X** 1. 505 Ans × 2.495 **X** 3. 523 **4**. 580 Question ID: 81616112416 Status: Answered Chosen Option: 4

Section	on : <b>General Awareness</b>	
Q.1	As of 2020, which among the following is a permanent member at Unite Council?	d Nations Security
Ans	X 1. Brazil	
	🗶 2. Japan	
	★ 3. Germany	
	✓ 4. China	
1		
		Question ID : <b>81616113966</b> Status : <b>Answered</b>
		Chosen Option : 2
	Article 21A of the Constitution of India provides Right to	
Ans	X 1. Equality	
	× 2. Work	
	X 4. Privacy	
		Question ID : <b>81616114165</b>
		Status : Answered
		Chosen Option : 3
	'Jadopatiya' is a form of popular in the state of Jharkhand.	
Ans	1. painting	
	× 2. music	
	X 3. sculpture	
	X 4. dance	
		Question ID : 81616112429
		Status : Not Answered
		Chosen Option :
Q.4	As of 26th January 2021, who is the Lok Sabha Speaker?	
Ans	★ 1. Nitin Gadkari	
	🗙 2. Rajnath Singh	
	✓ 3. Om Birla	
	🗙 4. JP Nadda	
		Question ID : 81616113960 Status : Answered
		Chosen Option : 3

S	<ul><li>★ 1. genetic</li><li>★ 2. cultural</li></ul>			
	X 3. species			
	√ 4. ecological			
		Question ID : 81616113949		
		Status : <b>Answered</b>		
		Chosen Option : 4		
.6	What is the abbreviated form of the IPL franchise o	cricket team from Chennai?		
ns	<b>X</b> 1. GCW			
	✓ 2. CSK			
	<b>X</b> 3. CA			
	<b>★</b> 4. CL			
		Question ID : <b>81616113964</b> Status : <b>Answered</b>		
	Which of the following states topped the second edreleased by NITI Aayog in January 2021?  X 1. Andhra Pradesh  X 2. Punjab	Status : <b>Answered</b> Chosen Option : <b>2</b>		
Q.7 Ans	released by NITI Aayog in January 2021?  1. Andhra Pradesh	Status : <b>Answered</b> Chosen Option : <b>2</b>		
	released by NITI Aayog in January 2021?  X 1. Andhra Pradesh  X 2. Punjab  X 3. Tamil Nadu	Status : Answered Chosen Option : 2  dition of the Indian Innovation Index		
	released by NITI Aayog in January 2021?  X 1. Andhra Pradesh  X 2. Punjab  X 3. Tamil Nadu	Status : <b>Answered</b> Chosen Option : <b>2</b>		
	released by NITI Aayog in January 2021?  X 1. Andhra Pradesh  X 2. Punjab  X 3. Tamil Nadu	Status : Answered Chosen Option : 2  dition of the Indian Innovation Index  Question ID : 81616112836		
Ans	released by NITI Aayog in January 2021?  X 1. Andhra Pradesh  X 2. Punjab  X 3. Tamil Nadu  4. Karnataka	Status : Answered Chosen Option : 2  dition of the Indian Innovation Index  Question ID : 81616112836 Status : Answered Chosen Option : 4  and Paragliding Festival organised by the		
ns 9.8	released by NITI Aayog in January 2021?  X 1. Andhra Pradesh  X 2. Punjab  X 3. Tamil Nadu  4. Karnataka	Status : Answered Chosen Option : 2  dition of the Indian Innovation Index  Question ID : 81616112836 Status : Answered Chosen Option : 4  and Paragliding Festival organised by the		
Q.8	released by NITI Aayog in January 2021?  X 1. Andhra Pradesh  X 2. Punjab  X 3. Tamil Nadu  4. Karnataka  In which of the following states was the Internation Adventure Sports and Sustainable Tourism Academ	Status : Answered Chosen Option : 2  dition of the Indian Innovation Index  Question ID : 81616112836 Status : Answered Chosen Option : 4  and Paragliding Festival organised by the		
Ans	released by NITI Aayog in January 2021?  X 1. Andhra Pradesh  X 2. Punjab  X 3. Tamil Nadu  4. Karnataka  In which of the following states was the Internation Adventure Sports and Sustainable Tourism Academ  1. Kerala	Status : Answered Chosen Option : 2  dition of the Indian Innovation Index  Question ID : 81616112836 Status : Answered Chosen Option : 4  and Paragliding Festival organised by the		
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Q.8	released by NITI Aayog in January 2021?  X 1. Andhra Pradesh  X 2. Punjab  X 3. Tamil Nadu  4. Karnataka  In which of the following states was the Internation Adventure Sports and Sustainable Tourism Academ  1. Kerala  X 2. Tripura  X 3. Assam	Status: Answered Chosen Option: 2  dition of the Indian Innovation Index  Question ID: 81616112836 Status: Answered Chosen Option: 4  nal Paragliding Festival organised by the my (ASSTA) in 2020?		

Q.9 Who among the following was one of the leaders who was instrumental in convincing Mahatma Gandhi about the need to start a non-cooperation movement in support of The X 1. Mohammad Ali Jinnah Ans 🗙 2. Maulana Abul Kalam Azad X 3. Abdul Ghaffar Khan 4. Shaukat Ali Question ID: 81616114160 Status: Not Answered Chosen Option: --Q.10 Who among the following laid the foundations of the Indian National Movement by founding the Indian Association at Calcutta in 1876? X 1. Womesh Chandra Banerjee 🗙 2. Dadabhai Naoroji 3. Surendranath Banerjee X 4. Aurobindo Ghose Question ID: 81616112444 Status: Answered Chosen Option: 3 Q.11 Which of the following organs secretes hydrochloric acid that helps our body in killing pathogenic bacteria? X 1. Kidney Ans X 2. Heart 3. Stomach 🗙 4. Brain Question ID: 81616112436 Status: Answered Chosen Option: 3 Q.12 Which of the following states won the National Award for Best Electoral Practices 2020? X 1. Mizoram 2. Meghalaya X 3. Kerala X 4. Karnataka Question ID: 81616114169 Status: Answered Chosen Option: 2

# Q.13 Who among the following rulers is called the 'Napolean of India'? Ans X 1. Bindusara X 2. Chandragupta I X 3. Ashoka 4. Samudragupta Question ID: 81616112441 Status: Answered Chosen Option: 4 Q.14 Which of the following is NOT in Karnataka? 🗙 1. Hampi Ans 2. Duduma Waterfall X 3. Mysore Palace X 4. Bannerghatta National Park Question ID: 81616114156 Status: Answered Chosen Option : 4 Q.15 'Swasthya Sathi' scheme is the health insurance scheme that covers the entire population of which of the following states? ✓ 1. West Bengal Ans X 2. Assam 🗙 3. Meghalaya X 4. Bihar Question ID: 81616112839 Status: Not Answered Chosen Option: --Q.16 Who among the following won the 'Indian Personality of the Year Award' during the 51st International Film Festival? X 1. Amitabh Bachchan 🗶 2. Shabana Azmi X 3. Asha Bhosle 4. Biswajit Chatterjee Question ID: 81616114163 Status: Answered Chosen Option: 1

# Q.17 What do you call the effect of splitting of a spectral line into several components in the presence of a static magnetic field? X 1. Askaryan effect Ans 2. Zeeman effect X 3. Bezold effect X 4. Domino effect Question ID: 81616112433 Status: Not Answered Chosen Option: --Q.18 Which of the following state governments launched the long-awaited policy of manufactured sand in January 2021? X 1. Madhya Pradesh 2. Rajasthan X 3. Maharashtra 🗙 4. Gujarat Question ID: 81616113968 Status: Answered Chosen Option: 2 Q.19 Who among the following is an Indian Paralympic swimmer? ✓ 1. Sharath M Gayakwad X 2. Pramod Bhagat X 3. Gaurav Khanna X 4. Sukant Kadam Question ID: 81616112450 Status: Not Answered Chosen Option: --Q.20 When is the statehood day of Tripura observed? X 1. 3 October X 2. 12 March 3. 21 January 🗙 4. 21 February Question ID: 81616112851 Status: Answered Chosen Option: 3

	X 1. Habitat				
	★ 2. Heavy				
	★ 3. Harvest				
	✓ 4. Help				
		2 12 24444444			
		Question ID : 81616114148 Status : Answered			
		Chosen Option: 4			
_					
	Topaz is a of fluorine and aluminium.				
Ans	X 1. sulphate				
	× 2. phosphate				
	X 3. carbonate				
	✓ 4. silicate				
		Question ID : 81616113955			
		Status: Not Answered			
		Status : <b>Not Answered</b> Chosen Option :			
0.23	In which of the following states is Anchar Lake locate	Chosen Option :			
	In which of the following states is Anchar Lake locate  1. Bihar	Chosen Option :			
		Chosen Option :			
	<b>X</b> 1. Bihar	Chosen Option :			
	<ul><li>X 1. Bihar</li><li>X 2. Meghalaya</li><li>X 3. Assam</li></ul>	Chosen Option :			
	<ul><li>★ 1. Bihar</li><li>★ 2. Meghalaya</li></ul>	Chosen Option :			
	<ul><li>X 1. Bihar</li><li>X 2. Meghalaya</li><li>X 3. Assam</li></ul>	Chosen Option : ed?  Question ID : 81616112842			
	<ul><li>X 1. Bihar</li><li>X 2. Meghalaya</li><li>X 3. Assam</li></ul>	Chosen Option : ed?  Question ID : 81616112842 Status : Answered			
	<ul><li>X 1. Bihar</li><li>X 2. Meghalaya</li><li>X 3. Assam</li></ul>	Chosen Option : ed?  Question ID : 81616112842			
Ans	<ul> <li>★ 1. Bihar</li> <li>★ 2. Meghalaya</li> <li>★ 3. Assam</li> <li>★ 4. Jammu and Kashmir</li> </ul> In the periodic table, the highly electronegative halog	Question ID: 81616112842 Status: Answered Chosen Option: 2			
).24	<ul> <li>X 1. Bihar</li> <li>X 2. Meghalaya</li> <li>X 3. Assam</li> <li>✓ 4. Jammu and Kashmir</li> </ul> In the periodic table, the highly electronegative halog alkali metals are separated by:	Question ID: 81616112842 Status: Answered Chosen Option: 2			
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Ans Q.24	<ul> <li>X 1. Bihar</li> <li>X 2. Meghalaya</li> <li>X 3. Assam</li> <li>✓ 4. Jammu and Kashmir</li> </ul> In the periodic table, the highly electronegative halogalkali metals are separated by: <ul> <li>✓ 1. Noble gases</li> <li>X 2. Alkaline earth metals</li> </ul>	Question ID: 81616112842 Status: Answered Chosen Option: 2			
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Q.24	<ul> <li>X 1. Bihar</li> <li>X 2. Meghalaya</li> <li>X 3. Assam</li> <li>✓ 4. Jammu and Kashmir</li> </ul> In the periodic table, the highly electronegative halogalkali metals are separated by: <ul> <li>✓ 1. Noble gases</li> <li>X 2. Alkaline earth metals</li> <li>X 3. Rare earth elements</li> </ul>	Question ID: 81616112842 Status: Answered Chosen Option: 2			

# Q.25 In which of the following years did the revolt in the countryside of the Bombay Deccan occur? **1**. 1875 Ans **X** 2. 1890 **X** 3. 1790 **X** 4. 1905 Question ID: 81616112846 Status: Answered Chosen Option: 4 Section: Quantitative Aptitude The average height of some students in a group is 156 cm. If 5 students of average height 160 cm join the group, then the average height of all the students in the group increases by 0.8 cm. What is the number of students in the group, Ans X 1. 10 X 2. 15 **3**. 20 X 4. 25 Question ID: 81616114173 Status: Answered Chosen Option: 4 **Q.2** In $\triangle$ ABC, DE $\parallel$ AB, where D and E are the points on sides AC and BC, respectively. If AD = x - 3, AC = 2x, BE = x - 2 and BC = 2x + 3, then what is the value of x? Ans X 1. 10 **2**. 9 X 3. 12 × 4. 8 Question ID: 81616113985 Status: Answered Chosen Option: 2

Q.3 The data given in the table shows the number of boys and girls enrolled in three different streams in a school over 5 years.

	Arts		Science		Commerce	
years	Boys	Girls	Boys	Girls	Boys	Girls
2012	48	36	40	35	35	45
2014	42	43	42	32	32	42
2016	45	42	38	30	36	38
2018	39	46	41	23	28	34
2020	36	43	39	30	39	41

By what percent is the total number of boys in Arts stream more than the total number of boys in Science stream in the years 2012 to 2020?

Ans

- **√** 1. 5
- $\times$  2.  $4\frac{16}{21}$
- X 3. 0
- $\times$  4.  $2\frac{18}{41}$

Question ID : **81616112376** Status : **Answered** Chosen Option : **1** 

Q.4 A certain sum amounts to ₹291600 in 2 years and to ₹314928 in 3 years on compound interest compounded annually. How much will be the simple interest (in ₹) on ₹40000 at the same rate for 2 years?

Ans

- √ 1. 6400
- × 2. 8000
- X 3. 7500
- × 4. 9600

Question ID : 81616112865 Status : Answered

Q.5 The following Bar Graph represents the Production of Fertilizers by Company A and Company B (in 10000 tonnes) Over the Years from 2005 to 2010. The X-axis represents the years, and the Y-axis represents the Production of Fertilizers (in 10000 tonnes).

(Note: The data shown below is only for mathematical exercise. They do not represent

the actual figures of the companies)



What is the average production (in 10000 tonnes) of fertilizers in 2008, 2009 and 2010 of Company A?

Ans

X 1. 600

2. 570

X 3. 590

X 4. 620

Question ID: 81616112374

Status: Not Answered

Chosen Option : --

**Q.6** If 
$$sin(\frac{2A+B}{2}) = cos(\frac{2A-B}{2}) = \frac{\sqrt{3}}{2}$$
,  $0^{\circ} < \frac{2A+B}{2} < 90^{\circ}$  and  $0^{\circ} < \frac{2A+B}{2} < 90^{\circ}$  then find the value of  $sin[3(A-B)]$ .

Ans

 $\times$  1.  $\frac{\sqrt{3}}{2}$ 

 $\checkmark$  2.  $\frac{1}{\sqrt{2}}$ 

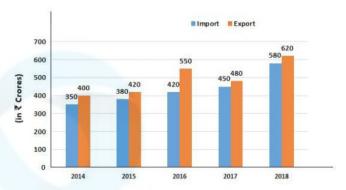
X 3.  $\frac{1}{2}$ 

X 4. 1

Question ID: 81616112876

Status: Answered

Q.7 The given bar graph shows the imports and exports (in crore ₹) of steel for 5 years from 2014 to 2018.



What is the ratio of average export to average import over the five years?

Ans

X 1. 247:109

√ 2. 247: 218

X 3. 109: 247

X 4. 218: 247

Question ID: 81616113587 Status: Answered

Chosen Option :  $\boldsymbol{2}$ 

Q.8 In a factory, there are 39 workers who have been categorised into five groups (A, B, C, D, E) on the basis of the range of their daily wages (in multiples of ₹100). It is ensured that the daily wage of no worker is an exact multiple of ₹100. The distribution is presented through the given histogram.



If two Managers are engaged to supervise the workers, with daily wages ranging between  $\ref{700}$  and  $\ref{800}$ , then what will be the average daily wage (nearest to a  $\ref{700}$ ) of all members of staff of the factory?

Ans

X 1. ₹445

× 2. ₹400

√ 3. ₹455

× 4. ₹467

Question ID: 81616113589

Status: Not Answered

Q.9 A shopkeeper allows 16% discount on every item. Even after giving the discount, he makes a profit of 8%. If he gives 8% discount instead of 16% on an item marked for ₹1800, then what will be his profit percent? (correct to 2 decimal places)

Ans X 1. 19

- × 2. 18.31
- X 3. 18
- √ 4. 18.29

Question ID: 81616112457 Status: Answered

Chosen Option : 2

Q.10 If x + y = 2 and  $\frac{1}{x} + \frac{1}{y} = \frac{18}{5}$ , then the value of  $(x^3 + y^3)$  is:

Ans

- $\sqrt{1.4} \frac{2}{3}$
- $\times$  2.  $4^{\frac{3}{5}}$
- $\times$  3.  $3\frac{1}{5}$
- $\times$  4.  $3\frac{1}{3}$

Question ID: 81616113980

Status : Answered

Chosen Option: 1

Q.11 The value of  $25 \div 15$  of  $4 \times [4 \div 5 \times (9 - 7)] - (20 \div 5$  of 9) is:

Ans

- $\times$  1.  $\frac{2}{3}$
- **X** 2.  $\frac{1}{3}$
- √ 3. <sup>2</sup>/<sub>9</sub>
- $\times$  4.  $\frac{4}{9}$

Question ID: 81616113970

Status: Answered

Q.12 If p - 2q = 3 and pq = 5, then what is the value of  $(p^3 - 8q^3)$ ?

Ans X 1. -63

X 2. 72

**✓** 3. 117

X 4. 27

Question ID : 81616112466 Status : Answered

Chosen Option : 1

Q.13 A boat goes 27 km upstream and 33 km downstream in 6 hours. In the same time it can go 36 km upstream and 22 km downstream. How much time will it take to go 36 km upstream and 44 km downstream?

Ans X 1. 8 h 30 m

X 2. 8 h 10 m

✓ 3. 8 h

X 4. 7 h 50 m

Question ID: 81616112463

Status: Not Answered

Chosen Option: --

Q.14 In a circle with centre O, AB and CD are two parallel chords on the same side of the diameter. If AB = 12 cm, CD = 18 cm and distance between the chords AB and CD is 3 cm, then find the radius of the circle (in cm).

Ans X 1. 12

**√** 2. 3√13

X 3. 15

X 4. 9

Question ID: 81616112873

Status: Answered

Chosen Option: 1

Q.15 If  $x^2 + 4y^2 = 53$  and x - 2y = 5, then what is the value of  $x^3 - 8y^3$ ?

Ans X 1. 155

√ 2. 335

X 3. -85

X 4. 85

Question ID: 81616112871

Status: Answered

Q.16 The value of  $4(\sin^4 30^\circ + \cos^4 30^\circ) - 3(\sin^2 45^\circ - 2\cos^2 45^\circ)$  is:

Ans X 1. 0

2. 4

X 3. 2

X 4. 1

Question ID: 81616114190

Status: Answered Chosen Option: 2

Q.17 Samir and Puneet can complete the same work in 10 days and 15 days respectively. The work was assigned for ₹4500.

After working together for 3 days Samir and Puneet involved Ashok. The work was completed in total 5 days. What amount (in ₹) was paid to Ashok?

Ans

X 1. 800

× 2. 1500

**3**. 750

X 4. 1071

Question ID: 81616112866

Status: Answered

Chosen Option: 2

Q.18 In  $\triangle$  ABC, D is the mid-point of side AC and E is a point on side AB such that EC bisects BD at F. If AE = 30 cm, then the length of EB is:

Ans × 1. 20 cm

× 2. 10 cm

X 3. 18 cm

√ 4. 15 cm

Question ID: 81616114188

Status: Answered

Chosen Option: 2

Q.19 △ ABC is incribed in a circle with center O, such that ∠ ACB = 115°. O is joined to A. What is the measure of ∠ OAB?

√ 1. 25°

X 2. 20°

X 3. 35°

X 4. 30°

Question ID: 81616114185

Status: Answered

Q.20 A trader bought two articles for ₹490. He sold one at a loss of 20% and the other at a profit of 16%. If the selling price of both articles is same, then the cost price (in ₹) of the article sold at 20% loss is: Ans X 1. 310 X 2. 300 **3**. 290 X 4. 280 Question ID: 81616113974 Status: Answered Chosen Option: 4 Q.21 If a number is first increased by 15%, then reduced by 15%, it results in 782. If the same number is first reduced by 25%, then increased by 25% and again reduced by 20%, then what will be the resulting number? Ans X 1. 712 X 2. 150 X 3. 750 **4** 4. 600 Question ID: 81616112862 Status: Answered Chosen Option: 4 Q.22 Fourth proportion to 12, 18, and 6 is same as the third proportion to k and 6. What is the value of k? ×1. 3√6 **2**. **4** X 3. 13.5 X 4. 3 Question ID: 81616112460 Status: Answered Chosen Option: 2 Q.23 Find the difference between squares of the greatest value and the smallest value of P if the number 5306P2 is divisible by 3. Ans X 1. 6 X 2. 36 X 3. 68 **4** 4. 60 Question ID: 81616112858 Status: Answered Chosen Option: 4

Q.24 The area of a square shaped field is 1764  $m^2$ . The breadth of a rectangular park is  $\frac{1}{3}rd$  the side of the square field and its length is two times its breadth. What is the cost (in  $\mathfrak{T}$ ) of levelling the park at  $\mathfrak{T}15$  per  $m^2$ ?

Ans

X 1. 4290

× 2. 4200

√ 3. 5880

X 4. 4320

Question ID : 81616114181 Status : Answered

Chosen Option: 3

0.25 The value of  $\frac{tan^2 30^{\circ} + sin^2 90^{\circ} + cot^2 60^{\circ} + sin^2 30^{\circ} cos^2 45^{\circ}}{sin60^{\circ} cos30^{\circ} - cos60^{\circ} sin30^{\circ}}$  is:

Ans

 $\times$  1.  $\frac{47}{12}$ 

 $\times$  2.  $\frac{37}{13}$ 

√ 3. 43
13.

 $\times$  4.  $\frac{25}{12}$ 

Question ID: 81616113181 Status: Answered

Chosen Option: 3

Section: English Comprehension

Q.1 Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution required'.

I asked Rahul that how far was his office from his home.

Ans

✓ 1. how far his office was

X 2. No substitution required

X 3. that how far his office is

X 4. then how far was his office

Question ID : 81616112887 Status : Answered

Q.2 Select the most appropriate meaning of the given idiom. A storm in a teacup X 1. Disarranging the cutlery Ans X 2. Unnecessary tension 3. Lot of fuss that will soon be forgotten X 4. A sudden storm during teatime Question ID: 81616112498 Status: Answered Chosen Option: 2 Q.3 Select the option that can be used as a one-word substitute for the given group of words. A place in a large institution, for the care of those who are ill X 1. Hostel Ans 2. Infirmary X 3. Hangar X 4. Dormitory Question ID: 81616112903 Status: Answered Chosen Option: 2 Q.4 Select the option that can be used as a one-word substitute for the given group of words. A group of stars X 1. Astronomy Ans 2. Constellation X 3. Congregation X 4. Planets Question ID: 81616112904 Status: Answered Chosen Option: 2 Q.5 Select the INCORRECTLY spelt word. X 1. Professional X 2. Electronics 🗙 4. Perpetuate Question ID: 81616114017 Status: Answered Chosen Option: 3

	Select the INCORRECTLY spelt word.				
Ans	X 1. Processing				
	× 2. Boundary				
	★ 4. Competency  A. Competency				
		Question ID : 81616114016			
		Status : Answered			
		Chosen Option : 3			
Q.7	Select the option that expresses the given sentence in reported speech	1.			
	"Is the door closed?" Alka asked Tarun.				
Ans	★ 1. Alka asked Tarun is the door close.				
	2. Alka asked Tarun whether the door was closed.				
	✗ 3. Alka asked Tarun if the door is closed.				
	X 4. Alka asked Tarun whether she closed the door.				
		Question ID : <b>81616114199</b>			
		Status : Answered			
		Chosen Option : 2			
Ans	for the year.  1. analysed  2. questioned  3. inspected  4. probed				
		Question ID : 81616114221			
		Status : Answered Chosen Option : 1			
Q.9	The following sentence has been divided into parts. One of them conta the part that contains the error from the given options.	ins an error. Select			
	Raman putted the vegetables / in the frying pan / and after adding som lid.	e water, / closed the			
Ans	X 1. in the frying pan				
	X 2. closed the lid				
	✗ 3. and after adding some water				
	✓ 4. Raman putted the vegetables				
		Question ID : 81616112884			
		Status : Answered			
		Chosen Option : 4			

- Q.10 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.
  - A. Whichever soonest made a traveller take off his cloak should be accounted the more powerful.
  - B. They agreed to put the point to test.
  - C. A dispute once arose between the wind and the sun to decide which was the stronger of the two.
  - D. The wind began, and blew with all his might and sent a blast, cold and fierce as a storm.

Ans X 1. CDBA

X 2. ACDB

X 4. BCDA

Question ID : 81616114006 Status : Answered

Chosen Option: 3

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

Adjus

Ans

1. Adapt

X 2. Change

X 3. Move

X 4. Shift

Question ID: 81616114210

Status: Answered

Chosen Option: 1

Q.12 Select the option that will substitute the underlined part of the given sentence. In case no substitution is needed, select 'No substitution required'.

Among applied sciences, medicine is one which have given man some power over death.

Ans

1. is one which has given

X 2. No substitution required

X 3. are one which given

X 4. is the one which gave

Question ID: 81616114201

Status: Answered

Chosen Option: 1

Q.13 Select the option that expresses the given sentence in passive voice.

Help the needy people.

Ans X 1. Let the needy people being helped.

2. The needy people are been helped.

X 3. The needy people are helping.

4. Let the needy people be helped.

Question ID: 81616112885

Status: Answered

At the eleventh hour  Ans			Select the most appropriate meaning of the given idiom.	Q.14
X 2. At 11:00 p.m.  3. At the very last minute  4. At 11:00 a.m.  Question ID : 81616112497 Status : Answered Chosen Option : 3  Question ID : 81616112497 Status : Answered Chosen Option : 3  Question ID : 81616112907 Status : Answered Chosen Option : 2  Question ID : 81616112907 Status : Answered Chosen Option : 2  Question ID : 81616112907 Status : Answered Chosen Option : 2  Question ID : 81616112907 Status : Answered Chosen Option : 2  Question ID : 81616112907 Status : Answered Chosen Option : 2  Question ID : 81616112496 Status : Answered Chosen Option : 2  Question ID : 81616112496 Status : Answered Chosen Option : 2  Question ID : 81616112496 Status : Answered Chosen Option : 2  Question ID : 81616112496 Status : Answered Chosen Option : 2			At the eleventh hour	
Question ID: 81616112497 Status: Answered Chosen Option: 3  Q.15 Select the most appropriate option to fill in the blank.  My New Year's is to think positive always.  Ans		🗙 1. One hour before midnight		
Question ID: 81616112497 Status: Answered Chosen Option: 3  Q.15 Select the most appropriate option to fill in the blank.  My New Year's is to think positive always.  Ans			<b>★</b> 2. At 11:00 p.m.	
Question ID: 81616112497 Status: Answered Chosen Option: 3  Q.15 Select the most appropriate option to fill in the blank.  My New Years is to think positive always.  Ans				
Question ID: 81616112497 Status: Answered Chosen Option: 3  Q.15 Select the most appropriate option to fill in the blank.  My New Years is to think positive always.  Ans			X 4. At 11:00 a.m.	
Q.15 Select the most appropriate option to fill in the blank.  My New Year's is to think positive always.  Ans				
Q.15 Select the most appropriate option to fill in the blank.  My New Year's is to think positive always.  Ans	7			
Q.15 Select the most appropriate option to fill in the blank.  My New Year's is to think positive always.  Ans				
My New Year's is to think positive always.  X 1. repetition  2. resolution  X 3. confession  X 4. celebration  Question ID : 81616112907 Status : Answered Chosen Option : 2  Q.16 Select the most appropriate ANTONYM of the given word.  Magnificent Ans X 1. Mighty  2. Modest  X 3. Grandiose  X 4. Opulent  Question ID : 81616112496 Status : Answered Chosen Option : 2  Q.17 Select the most appropriate ANTONYM of the given word.  Hazard Ans X 1. Gamble  X 2. Risk  X 3. Safety		Chosen option . 3		
Ans			Select the most appropriate option to fill in the blank.	Q.15
			My New Year's is to think positive always.	
Question ID : 81616112907 Status : Answered Chosen Option : 2  Q.16 Select the most appropriate ANTONYM of the given word.  Magnificent Ans			X 1. repetition	Ans
Question ID : 81616112907 Status : Answered Chosen Option : 2  Q.16 Select the most appropriate ANTONYM of the given word.  Magnificent Ans			✓ 2. resolution	
Question ID: 81616112907 Status: Answered Chosen Option: 2  Q.16 Select the most appropriate ANTONYM of the given word.  Magnificent Ans			★ 3. confession	
Q.16 Select the most appropriate ANTONYM of the given word.  Magnificent  Ans			★ 4. celebration	
Q.16 Select the most appropriate ANTONYM of the given word.  Magnificent  Ans				
Q.16 Select the most appropriate ANTONYM of the given word.  Magnificent Ans	7			
Q.16 Select the most appropriate ANTONYM of the given word.  Magnificent  Ans				
Magnificent  Ans		Onosch option: 2		
Q.17 Select the most appropriate ANTONYM of the given word.  Hazard  Ans			<ul><li>★ 1. Mighty</li><li>✓ 2. Modest</li><li>★ 3. Grandiose</li></ul>	
Q.17 Select the most appropriate ANTONYM of the given word.  Hazard  Ans	5	Ouestion ID : 81616112496		
Q.17 Select the most appropriate ANTONYM of the given word.  Hazard  Ans	·			
Hazard  Ans		Chosen Option : 2		
Hazard  Ans			Select the most appropriate ANTONYM of the given word.	Q.17
Ans   X 1. Gamble  X 2. Risk  ✓ 3. Safety				
<ul><li>✓ 2. Risk</li><li>✓ 3. Safety</li></ul>				
✓ 3. Safety				
M 4.1 6th			A.1 CIII	
Question ID : <b>81616114010</b>		Question ID : 81616114010		
Status : Answered				
Chosen Option : 3		Chosen Option : 3		

Q.18 The following sentence has been divided into parts. One of them contains an error. Select the part that contains the error from the given options. The recruiters / were pleased / to John's / domain knowledge and personality. Ans 1. to John's X 2. were pleased X 3. domain knowledge and personality X 4. The recruiters Question ID: 81616112479 Status: Answered Chosen Option: 1 Q.19 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph. A. I was shocked to find my house unlocked. B. To my astonishment, I found that my son, who had a spare key, had come in my absence. C. Last Sunday I returned home late at night. D. I ran inside in fear that my house has been robbed. X 1. BCDA Ans X 2. ABCD X 3. CDAB 4. CADB Question ID: 81616112492 Status: Answered Chosen Option: 4 Q.20 Select the most appropriate synonym of the given word. Slack X 1. Lively Ans 2. Careless X 3. Keen X 4. Active Question ID: 81616114211 Status: Answered Chosen Option: 2

	Comprehension:			
In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.  "Everything in Bhutan is chemical-free, all fruits and vegetables are (1) organically, so whatever you buy is (2) farm produced as the (3) of the population indulge in farming for (4)," says my taxi driver Karma Chime. "We use turmeric on wounds, also to dye (5) and it is added extensively in our cooking. Also, many believe it is anti-cancer and can treat tumours.				
				SubQuestion No: 21
Q.21	Select the most appropriate option to fill in blank number 1.			
Ans	X 1. grows			
	× 2. grow			
	X 3. grew			
	✓ 4. grown			
		Question ID: 81616114001 Status: Answered		
		Chosen Option : 4		
	Comprehension:			
In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.				
	"Everything in Bhutan is chemical-free, all fruits and vegetables are (1) organically, so whatever you buy is (2) farm produced as the (3) of the population indulge in farming for (4)," says my taxi driver Karma Chime. "We use turmeric on wounds, also to dye (5) and it is added extensively in our cooking. Also, many believe it is anti-cancer and can treat tumours.			
	SubQuestion No : 22 .22 Select the most appropriate option to fill in blank number 2.			
Q.22				
Ans	√ 1. locally			
🗙 2. nearly				
	X 3. nearby			
	Question ID : 81616114002 Status : Answered			

### Comprehension: In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. "Everything in Bhutan is chemical-free, all fruits and vegetables are (1)\_\_\_\_ whatever you buy is (2)\_\_\_\_\_ farm produced as the (3)\_\_\_\_\_ of the population indulge in farming for (4)\_\_\_\_," says my taxi driver Karma Chime. "We use turmeric on wounds, also to dye (5) and it is added extensively in our cooking. Also, many believe it is anti-cancer and can treat tumours. SubQuestion No: 23 Q.23 Select the most appropriate option to fill in blank number 3. X 1. mass Ans 2. majority X 3. community X 4. common Ouestion ID: 81616114003 Status: Answered Chosen Option: 2 Comprehension: In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. "Everything in Bhutan is chemical-free, all fruits and vegetables are (1)\_\_\_\_ whatever you buy is (2)\_\_\_\_\_ farm produced as the (3)\_\_\_\_\_ of the population indulge in farming for (4)\_\_\_\_," says my taxi driver Karma Chime. "We use turmeric on wounds, also to dye (5)\_\_\_\_\_ and it is added extensively in our cooking. Also, many believe it is anti-cancer and can treat tumours.

SubQuestion No: 24

Q.24 Select the most appropriate option to fill in blank number 4.

Ans X 1. provision

X 2. conservation

X 3. nutrition

4. sustenance

Question ID : 81616114004 Status : Answered

# Comprehension: In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. "Everything in Bhutan is chemical-free, all fruits and vegetables are (1)\_\_\_\_\_ organically, so whatever you buy is (2)\_\_\_\_ farm produced as the (3)\_\_\_\_ of the population indulge in farming for (4)\_\_\_\_," says my taxi driver Karma Chime. "We use turmeric on wounds, also to dye (5)\_\_\_\_ and it is added extensively in our cooking. Also, many believe it is anti-cancer and can treat tumours. SubQuestion No: 25 Q.25 Select the most appropriate option to fill in blank number 5. Ans 1. attires 2. covering

3. garments4. fashions

Question ID: 81616114005 Status: Answered