

Combined Graduate Level Examination 2024 Tier I

Exam Date	24/09/2024
Exam Time	12:30 PM - 1:30 PM
Subject	Combined Graduate Level Examination Tier I

Section : General Intelligence and Reasoning

Q.1 The position(s) of how many letters will remain unchanged if all the letters in the word 'ASTEROID' are arranged in English alphabetical order?

- Ans**
- ☐ 1. Three
 - ☐ 2. None
 - ☐ 3. Two
 - ☒ 4. One

Q.2 Six letters J, T, E, X, I and O are written on different faces of a dice. Two positions of this dice are shown in the figures below. Find the letter on the face opposite to X.



- Ans**
- ☐ 1. I
 - ☐ 2. E
 - ☐ 3. O
 - ☒ 4. T

Q.3 Which number will come in the place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '÷' are interchanged?
 $14 - 45 \times 5 + 6 \div 3 = ?$

- Ans**
- ☐ 1. 3
 - ☐ 2. 6
 - ☒ 3. 5
 - ☐ 4. 4

Q.4 Which of the following terms will replace the question mark (?) in the given series?
HKPT, JLNS, LMLR, ?, POHP

- Ans**
- ☒ 1. NNJQ
 - ☐ 2. NNKQ
 - ☐ 3. NNQJ
 - ☐ 4. NNIQ

Q.5 In a certain code language, 'IFF' is coded as '21' and 'ARB' is coded as '21'. How will 'CAW' be coded in that language?

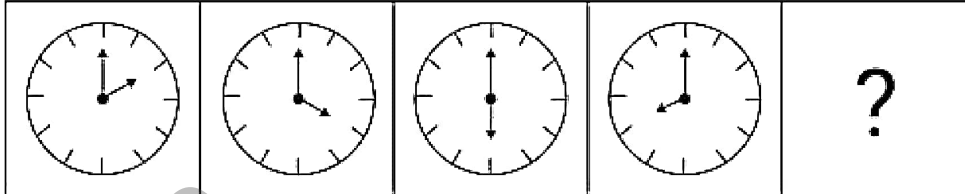
- Ans**
- ☐ 1. 25
 - ☒ 2. 27
 - ☐ 3. 23
 - ☐ 4. 26

Q.12 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.

Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.

- Ans**
- ☒ 1. TWZ
 - ☒ 2. MPS
 - ☒ 3. DGJ
 - ☒ 4. KNP

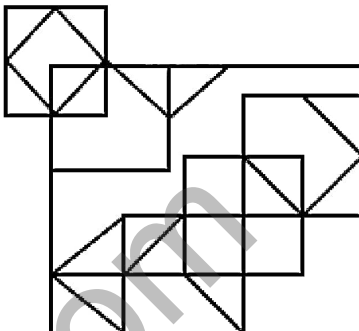
Q.13 Select the figure from among the given options that can replace the question mark (?) and logically complete the series.



Ans

- ☒ 1.
- ☒ 2.
- ☒ 3.
- ☒ 4.

Q.14 How many triangles are there in the given figure?



- Ans**
- ☒ 1. 16
 - ☒ 2. 17
 - ☒ 3. 18
 - ☒ 4. 19

Q.6 Select the word pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Scissors : Paper

- Ans**
- ☒ 1. Furnace : Water
 - ☐ 2. Axe : Wood
 - ☐ 3. Mines : Diamond
 - ☐ 4. Heater : Plastic

Q.7 Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.
(317, 202)
(438, 323)

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans**
- ☒ 1. (402, 287)
 - ☐ 2. (424, 315)
 - ☐ 3. (415, 295)
 - ☐ 4. (391, 270)

Q.8 Select the word pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Cessation : Beginning

- Ans**
- ☐ 1. Incredible : Magnificent
 - ☐ 2. Plutonic : Abyssal
 - ☒ 3. Enormous : Miniscule
 - ☐ 4. Obsession : Problem

Q.9 22 is related to 176 following a certain logic. Following the same logic, 32 is related to 256. To which of the following is 48 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- Ans**
- ☐ 1. 374
 - ☒ 2. 384
 - ☐ 3. 380
 - ☐ 4. 370

Q.10 In a certain code language, 'TERRAIN' is written as 'VETTAIP' and 'TRAFFIC' is written as 'VTAHHIE'. How will 'MOTOR' be written in that language?

- Ans**
- ☒ 1. OOVOT
 - ☐ 2. VOOOT
 - ☐ 3. OOTVO
 - ☐ 4. OVOTO

Q.11 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

LM_O_NPMRO_KU_TI

- Ans**
- ☐ 1. RPMO
 - ☐ 2. PNOR
 - ☒ 3. NORP
 - ☐ 4. NOPR

- Q.15** Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

11 : 1331

9 : 729

- Ans**
- ☐ 1. 6 : 180
 - ☒ 2. 7 : 343
 - ☐ 3. 8 : 6561
 - ☐ 4. 13 : 2028

- Q.16** Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Pig : Piglets :: Deer : ?

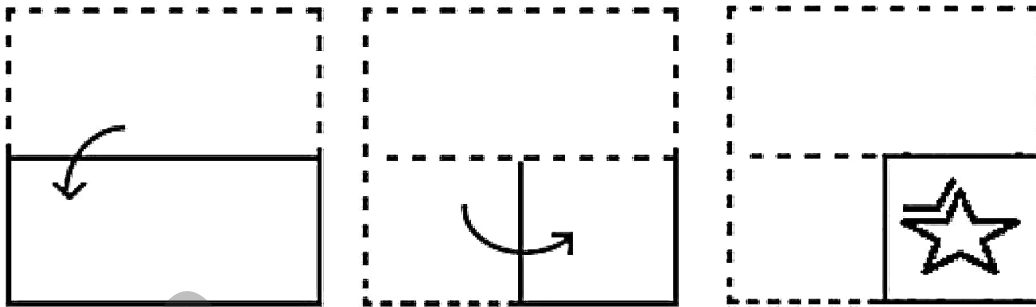
- Ans**
- ☐ 1. Pup
 - ☐ 2. Foal
 - ☒ 3. Fawn
 - ☐ 4. Calf

- Q.17** Select the correct mirror image of the given figure when the mirror is placed at MN as shown.



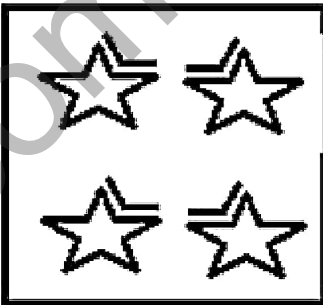
- Ans**
- ☐ 1. ΣIU FY
 - ☐ 2. ZIN FY
 - ☒ 3. ΣIU FY
 - ☐ 4. ZIU FY

Q.18 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?

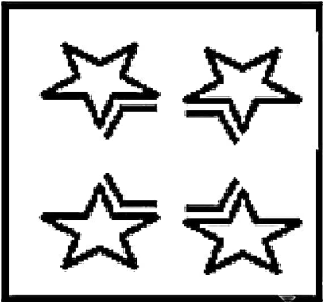


Ans

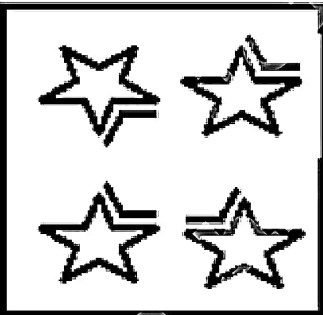
X 1.



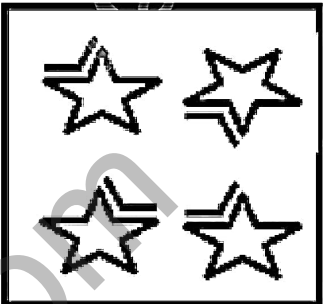
✓ 2.



X 3.



X 4.



Q.19 In this question, three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All necklaces are squares.

Some squares are circles.

No circle is a ring.

Conclusions:

I.No square is a ring.

II.No ring is a circle.

III.Some squares are necklaces.

- Ans**
- ☒ 1. Only conclusions II and III follow.
 - ☐ 2. Only conclusion III follows.
 - ☐ 3. All the conclusions follow.
 - ☐ 4. Only conclusions I and III follow.

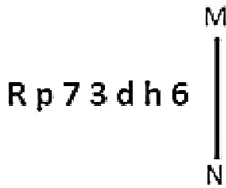
Q.20 Select the number from among the given options that can replace the question mark (?) in the following series.
5, 10, 17, 26, 37, ?

- Ans**
- ☒ 1. 50
 - ☐ 2. 52
 - ☐ 3. 60
 - ☐ 4. 54

Q.21 In a certain code language,
'A + B' means 'A is the mother of B';
'A - B' means 'A is the brother of B';
'A x B' means 'A is the wife of B' and
'A ÷ B' means 'A is the father of B'.
Based on the above, if $M + Q - R + K - Y$, then how is M related to Y?

- Ans**
- ☐ 1. Father's mother
 - ☐ 2. Brother's wife
 - ☒ 3. Mother's mother
 - ☐ 4. Mother

Q.22 Select the correct mirror image of the given figure when the mirror is placed at MN.



- Ans**
- ☐ 1. R p 7 3 d h 6
 - ☐ 2. R p 7 3 d h 6
 - ☒ 3. 6 h d 3 p R
 - ☐ 4. 6 h d 3 p R

Q.23 Which two signs should be interchanged to make the following equation correct?
 $29 \times 145 + 5 - 640 \div 15 = 216$

- Ans**
- ☒ 1. ÷ and +
 - ☐ 2. ÷ and ×
 - ☐ 3. - and +
 - ☐ 4. - and ×

Q.24 The second number in the given number-pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) is/are followed in all the number-pairs, except one. Find that odd number-pair.
(NOTE: The relation should be found without breaking down the numbers into its constituent digits)

- Ans** ☒ 1. 18 : 306
☐ 2. 25 : 650
☐ 3. 23 : 552
☐ 4. 13 : 182

Q.25 Select the figure that will replace the question mark (?) in the following figure series.

○	A	8	□	A	2	6	8	
□	6	8	A	D	○	8	□	6
D	2	2	6	D	○	○	□	?

Ans

- ☒ 1.

2	○
6	D
8	A
- ☐ 2.

2	○
6	8
D	A
- ☐ 3.

□	○
A	8
D	6
- ☐ 4.

2	A
6	○
D	□

Section : General Awareness

Q.1 Which of the following statements is **INCORRECT** regarding Fundamental Rights?

- Ans** ☐ 1. Fundamental Rights can be enforced by Law.
☒ 2. Fundamental rights are derived from the Britain Constitution.
☐ 3. The Fundamental Rights are mentioned in constitution from article 12 to 35.
☐ 4. Article 21 provides right to life.

Q.2 Under which scheme are collateral free loans of up to ₹10 Lakh extended by the Member Lending Institutions (MLIs) in India?

- Ans** ☐ 1. National Strategy for Financial Inclusion
☒ 2. Pradhan Mantri MUDRA Yojana
☐ 3. Stand Up India scheme
☐ 4. Pradhan Mantri Jan Dhan Yojana

Q.3 Which of the following festivals observed in Assam is majorly celebrated by Vaishnavites?

- Ans**
- ☐ 1. Bihu
 - ☒ 2. Doljatra
 - ☐ 3. Ambuchi Mela
 - ☐ 4. Rongker

Q.4 Which of the following group of months is the coldest in North India?

- Ans**
- ☐ 1. February and March
 - ☐ 2. September and October
 - ☒ 3. December and January
 - ☐ 4. October and November

Q.5 Some of the talas invented by _____ include Trimukhi, Panchamukhi, Saptamukhi and Navamukhi.

- Ans**
- ☒ 1. M Balamuralikrishna
 - ☐ 2. Hariprasad Chaurasia
 - ☐ 3. Yashraj
 - ☐ 4. Bhimsen Joshi

Q.6 In which year was the temple entry movement started by Bhimrao Ambedkar?

- Ans**
- ☐ 1. 1935
 - ☐ 2. 1918
 - ☒ 3. 1927
 - ☐ 4. 1922

Q.7 Who among the following dancers was the first one from the state of Odisha to be conferred the Padma Vibhushan Award?

- Ans**
- ☐ 1. Uday Shankar
 - ☐ 2. Pandit Birju Maharaj
 - ☒ 3. Kelucharan Mohapatra
 - ☐ 4. Guru Bipin Singh

Q.8 Sankalp Gupta is associated with which of the following events?

- Ans**
- ☒ 1. Chess
 - ☐ 2. Wrestling
 - ☐ 3. Badminton
 - ☐ 4. Boxing

Q.9 Where was the 1912 session of the India National Congress held in Bihar?

- Ans**
- ☐ 1. Sahasaram
 - ☐ 2. Gaya
 - ☒ 3. Bankipore
 - ☐ 4. Madhubani

Q.10 Harmonium player, Tulsidas Borkar, was awarded with the _____ in 2016.

- Ans**
- ☒ 1. Padma Shri
 - ☐ 2. Padma Bhushan
 - ☐ 3. Bharat Ratna
 - ☐ 4. Padma Vibhushan

Q.11 Which ocean is encircling the continent of Antarctica and extends northward to 60 degrees south latitude?

- Ans**
- ☐ 1. Atlantic Ocean
 - ☐ 2. Indian Ocean
 - ☐ 3. Pacific Ocean
 - ☒ 4. Southern Ocean

Q.12 Which Article mentions the Comptroller and Auditor General of India?

- Ans**
- ☐ 1. Article 154
 - ☐ 2. Article 156
 - ☒ 3. Article 148
 - ☐ 4. Article 136

Q.13 Who among the following is the first Indian to win gold at Junior World Weightlifting Championship in May 2022?

- Ans**
- ☐ 1. Sathish Sivalingam
 - ☐ 2. Mirabai Chanu
 - ☐ 3. Santoshi Matsa
 - ☒ 4. Harshada Sharad Garud

Q.14 The real name of Babur, the founder of Mughal dynasty in India was:

- Ans**
- ☒ 1. Zahiruddin Muhammad
 - ☐ 2. Irfanuddin Muhammad
 - ☐ 3. Zainuddin Muhammad
 - ☐ 4. Ruknuddin Muhammad

Q.15 About what percentage of passenger traffic is carried by roads in India?

- Ans**
- ☐ 1. 77%
 - ☒ 2. 87%
 - ☐ 3. 57%
 - ☐ 4. 67%

Q.16 Rudrankksh Patil is associated with _____.

- Ans**
- ☐ 1. badminton
 - ☒ 2. shooting
 - ☐ 3. chess
 - ☐ 4. wrestling

Q.17 Which of the following classes includes the family of turtles?

- Ans**
- ☐ 1. Chondrichthyes
 - ☒ 2. Reptilia
 - ☐ 3. Amphibia
 - ☐ 4. Aves

Q.18 According to the Census of India 2001, which of the following is the main reason that Indian men migrate?

- Ans**
- ☐ 1. Education
 - ☐ 2. Marriage
 - ☒ 3. Work and employment
 - ☐ 4. Business

Q.19 Which of the following States have enacted the Cattle Preservation Act, 2021 in July-August 2021 to regulate slaughter and transport of cattle and proposed an amendment in December 2021 to allow inter-district transportation of cattle for agricultural and animal husbandry except in districts sharing international border?

- Ans**
- ☐ 1. Tripura
 - ☐ 2. Sikkim
 - ☐ 3. Arunachal Pradesh
 - ☒ 4. Assam

Q.20 Which types of gametes are found in Spirogyra?

- Ans**
- ☐ 1. Isogamous and flagellated
 - ☐ 2. Heterogamous and non-flagellated
 - ☐ 3. Heterogamous and flagellated
 - ☒ 4. Isogamous and non-flagellated

Q.21 The 'Make in India' initiative primarily focuses on which sector?

- Ans**
- ☒ 1. Manufacturing
 - ☐ 2. Service
 - ☐ 3. Agriculture
 - ☐ 4. Import

Q.22 Which of the following was NOT one of the basic attributes of Ashokas' Dhamma?

- Ans**
- ☐ 1. Political unification
 - ☐ 2. Ahimsa
 - ☒ 3. Celibacy
 - ☐ 4. Secularism

Q.23 N. Rangasamy sworn in as the Chief Minister of Puducherry in May 2021. What is the name of the party he formed?

- Ans**
- ☐ 1. Naam Tamilar Katchi
 - ☒ 2. All India NR Congress
 - ☐ 3. Amma Makkal Munnettra Kazagam
 - ☐ 4. Viduthalai Chiruthaigal Katchi

Q.24 Identify the INCORRECT pair regarding motion and their examples?

- Ans**
- ☐ 1. Translatory motion – A ball falling from the cliff
 - ☐ 2. Periodic motion – Hands of a clock
 - ☒ 3. Oscillatory motion – Earth moving around the sun
 - ☐ 4. Rotatory motion – blades of a fan

Q.25 Which gas is evolved when iron and water react?

- Ans**
- ☒ 1. Hydrogen
 - ☐ 2. Oxygen
 - ☐ 3. Ammonia
 - ☐ 4. Methane

- Q.1 The table shows the sales (in units) of a company for different cities in the months of June and July, 2022. Study the table and answer the question that follows.

City	June	July
Delhi	252	332
Mumbai	325	248
Chennai	362	247
Kolkata	245	195
Pune	218	284

What is the difference between Delhi's sales for the month of June and Chennai's sales for the month of July?

- Ans
- ☒ 1. 5
 - ☐ 2. 155
 - ☐ 3. 80
 - ☐ 4. 30

- Q.2 The following table gives zone wise survey report of the people of a country who take tea. Study the table and answer the question.

Take tea	Zone			
	East	West	North	South
More than 3 times a day	1732	1842	6045	2741
1 to 3 times a day	1462	2328	2584	4264
Twice a week	2280	2529	1123	3598
Only once a week	4059	1874	3169	7051
Never	317	127	223	293

The ratio of the total number of people surveyed who take tea more than 3 times a day to the number of people who do not take tea at all is

- Ans
- ☒ 1. 103 : 8
 - ☐ 2. 8 : 103
 - ☐ 3. 101 : 5
 - ☐ 4. 5 : 107

Q.3

Study the given table and answer the question that follows.

The total money spent in advertisement (in ₹) and total number of advertisements in different newspapers given by a company for five years (2018 to 2022) is given in the below table.

Year	Total Money Spent in ₹ in Advertisement			Total No of Advertisements		
	NY Times	The Telegraph	Others	NY Times	The Telegraph	Others
2018	3,50,000	3,60,000	2,10,000	10	12	15
2019	4,80,000	3,45,000	2,89,000	12	15	17
2020	6,15,000	4,00,000	5,76,000	15	20	36
2021	7,60,000	4,80,000	4,40,000	19	24	22
2022	14,00,000	3,50,000	3,09,000	38	18	30

What is the ratio of the money spent on each of the advertisements taken one from each of NY times, The Telegraph and Others for the year 2021 to that of the money spent on each of the advertisements taken one from each of NY times, The Telegraph and Others for the year 2018?

Ans

☒ 1. 80 : 79

☐ 2. 80 : 71

☐ 3. 71 : 80

☐ 4. 79 : 80

Q.4

The radii of two circles are 8 cm and 15 cm. The perimeter of the circle having area equal to the sum of the areas of the two circles (in cm) is:

Ans

☐ 1. 32π

☐ 2. 30π

☐ 3. 28π

☒ 4. 34π

Q.5

Ghanshyam is thrice as old as Akash. 10 years ago, Ghanshyam was four times as old as Akash. What is the difference between their current ages (in years)?

Ans

☐ 1. 65

☐ 2. 50

☐ 3. 55

☒ 4. 60

Q.6

If $\tan A + \cot A = 2$, then the value of $\tan^2 A + \cot^2 A$ is:

Ans

☐ 1. 16

☒ 2. 2

☐ 3. 8

☐ 4. 4

Q.7 The value of $(\sin A + \operatorname{cosec} A)^2 + (\cos A + \sec A)^2$ is:

- Ans
- ☐ 1. $3 + \tan^2 A + \cot^2 A$
 - ☒ 2. $7 + \tan^2 A + \cot^2 A$
 - ☐ 3. $5 + \tan^2 A + \cot^2 A$
 - ☐ 4. $1 + \tan^2 A + \cot^2 A$

Q.8 Find the value of $\frac{(453 \times 453 \times 453 - 383 \times 383 \times 383)}{(453 \times 383 + 383 \times 383 + 453 \times 453)}$.

- Ans
- ☐ 1. 60
 - ☐ 2. 50
 - ☐ 3. 80
 - ☒ 4. 70

Q.9 An article is sold for ₹747 after successive discounts of 17% and x%. If the marked price of the article is ₹1,600, what is the value of x?

- Ans
- ☐ 1. 32.26
 - ☒ 2. 43.75
 - ☐ 3. 22.12
 - ☐ 4. 40.28

Q.10 Two goods trains 132 m and 108 m in length are running towards each other on parallel tracks. The first train is running at a speed of 32 km/h and the second at a speed of 40 km/h. How much time will they take to cross each other after meeting?

- Ans
- ☒ 1. 12 s
 - ☐ 2. 10 s
 - ☐ 3. 13 s
 - ☐ 4. 15 s

Q.11 On dividing a number by 55, we get 28 as the remainder. On dividing the same number by 11, what is the remainder?

- Ans
- ☐ 1. 5
 - ☐ 2. 8
 - ☐ 3. 7
 - ☒ 4. 6

Q.12 Vipul spends 30% of his monthly income on rent, 60% of the remaining on groceries, and 40% of the remaining on others. If he saves ₹ 7056 in a month, then how much (in ₹) does he spend on groceries?

- Ans
- ☐ 1. 18323
 - ☐ 2. 15230
 - ☒ 3. 17640
 - ☐ 4. 22386

Q.13 A man buys 10 kg of wheat at a rate of ₹26/kg. The wheat is mixed with 6 kg of other good quality of wheat to get a mixture at a price of ₹35/kg. The price of good quality wheat per kg (in ₹) is:

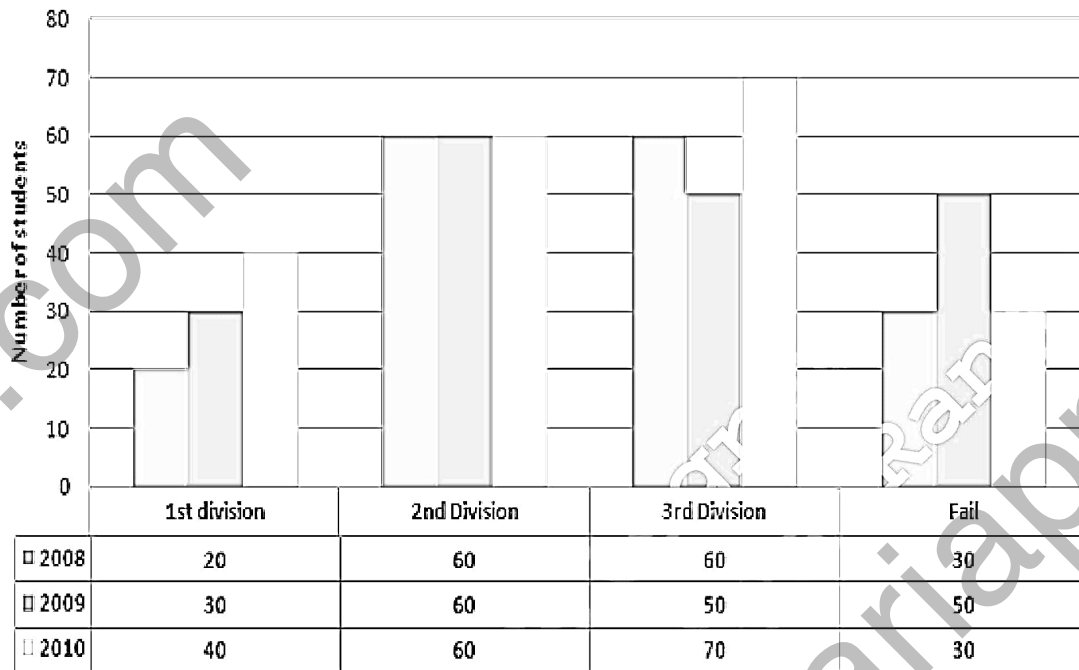
- Ans
- ☐ 1. 38
 - ☐ 2. 42
 - ☒ 3. 50
 - ☐ 4. 46

Q.14 What is the length (in cm) of each side of a cube if the volume of a cube is $13,824 \text{ cm}^3$?

- Ans
- ☐ 1. 20.4
 - ☒ 2. 24
 - ☐ 3. 22
 - ☐ 4. 34

Q.15 Study the given bar graph and answer the question that follows.

The following bar graph shows the higher secondary students of a school for the years 2008, 2009 and 2010.



What was the percentage of students who passed in the first division in 2009?

- Ans
- ☐ 1. $16\frac{13}{19}\%$
 - ☒ 2. $15\frac{15}{19}\%$
 - ☐ 3. $16\frac{15}{19}\%$
 - ☐ 4. $15\frac{13}{19}\%$

Q.16 Pipe A takes $\frac{4}{5}$ of the time required by pipe B to fill an empty tank individually.

When an outlet pipe C is also opened simultaneously with pipes A and B, it takes $\frac{4}{5}$ more time to fill the empty tank than it takes when only pipe A and pipe B are opened together. If it takes 40 hours to fill the tank when all the three pipes are opened simultaneously, in what time (in hours) will pipe C empty the full tank, operating alone?

- Ans
- ☒ 1. 50
 - ☐ 2. 45
 - ☐ 3. 65
 - ☐ 4. 75

Q.17 If the mean proportional between p and q is 12, then the possible values of p and q, respectively, are:

- Ans
- ☐ 1. 3, 38
 - ☐ 2. 3, 28
 - ☒ 3. 24, 6
 - ☐ 4. 24, 16

Q.18 The radii of two concentric circles are 26 cm and 10 cm. If the chord of the greater circle is a tangent to the smaller circle, then find the length of that chord.

- Ans
- ☐ 1. 38.7 cm
 - ☐ 2. 28.7 cm
 - ☒ 3. 48 cm
 - ☐ 4. 28 cm

Q.19 A person purchased a table and a sofa for ₹28,000. He sold the sofa at a profit of 10% and the table at a profit 15.25%. If his total profit was 13%, then the difference between the cost price of the sofa and the table (in ₹) is:

- Ans
- ☐ 1. 1500
 - ☒ 2. 4000
 - ☐ 3. 5000
 - ☐ 4. 2500

Q.20 If $3 \tan A = 4$ and A is an acute angle, then the value of $4\sin A + 3\cos A$ is:

- Ans
- ☐ 1. 1
 - ☐ 2. 3
 - ☐ 3. 4
 - ☒ 4. 5

Q.21 A cell phone is available for Rs.600 or for Rs.300 cash down payment together with Rs.360 to be paid after two months. Find the rate of interest charged under this scheme.

- Ans
- ☐ 1. 60%
 - ☒ 2. 120%
 - ☐ 3. 20%
 - ☐ 4. 50%

Q.22 Let C be a circle with centre O and PQ be a minor arc on C. Let R and S be two points on the major arc of PQ on C. If PQ subtends an angle 80° at O, find $\angle PRQ$ and $\angle PSQ$, respectively.

- Ans
- ☐ 1. 40° and 60°
 - ☐ 2. 50° and 80°
 - ☒ 3. 40° and 40°
 - ☐ 4. 40° and 50°

Q.23 For what value of K does the following system have an infinite number of solutions?

$$\begin{aligned}x + 2Ky - 8 &= 0 \\ 2x - y - 16 &= 0\end{aligned}$$

- Ans
- ☐ 1. 4
 - ☒ 2. $-\frac{1}{4}$
 - ☐ 3. 2
 - ☐ 4. $-\frac{1}{2}$

Q.24 In $\triangle DEF$, $DE = 12$ cm, $EF = 15$ cm, and $\angle DEF = 90^\circ$. $\triangle DEF$ is congruent to $\triangle XYZ$. If $YZ = 15$ cm, then what is the length of XZ ?

- Ans**
- ☒ 1. $3\sqrt{41}$ cm
 - ☐ 2. $2\sqrt{41}$ cm
 - ☐ 3. $5\sqrt{41}$ cm
 - ☐ 4. $4\sqrt{41}$ cm

Q.25 Simplify the following expression.
 $133 \div 19 \times 3 - 48 \times 2 \div 24 + 841 \div [\{45 - 16\}]$

- Ans**
- ☒ 1. 46
 - ☐ 2. 21
 - ☐ 3. 12
 - ☐ 4. 42

Section English Comprehension

Q.1 Sentences of a paragraph are given below in jumbled order. Select the option that arranges the sentences in the correct logical sequence to form a meaningful and coherent paragraph.
a. It regulates the operation of all body organs and protects the body and mind from becoming unbalanced as a result of negative circumstances and unhealthy lifestyles.
b. It only requires frequent practice of the proper body motions and breathing techniques.
c. The physical benefits of yoga can be enjoyed for a lifetime without risk or injury.
d. It regulates the relationship between the body, the intellect, and the spirit.

- Ans**
- ☐ 1. d, a, b, c
 - ☒ 2. c, b, d, a
 - ☐ 3. b, a, c, d
 - ☐ 4. a, b, c, d

Q.2 Select the most appropriate meaning of the underlined word.
At times, David behaves in a very obdurate manner to kids.

- Ans**
- ☐ 1. trusting
 - ☐ 2. amiable
 - ☒ 3. obstinate
 - ☐ 4. envious

Q.3 Select the most appropriate meaning of the underlined idiom in the following sentence.
Rahul won the extempore competition. He is lucky to be blessed with the gift of the gab.

- Ans**
- ☐ 1. An honest person
 - ☐ 2. A big surprise
 - ☐ 3. A lucky person
 - ☒ 4. A talent for speaking

Q.4 Select the most appropriate option to substitute the underlined segment in the given sentence.
Nina has not yet learned how to straighten up and fly right.

- Ans**
- ☐ 1. forget the wrongdoings of the others
 - ☒ 2. improve her absurd behaviour and act seriously
 - ☐ 3. be professional in flying the aircraft
 - ☐ 4. remember the past and prepare for the future

Q.5 Select the most appropriate option to substitute the underlined segment in the given sentence.
I had not only helped her by giving hints but also with providing her links.

- Ans**
- ☒ 1. helped her not only by
 - ☐ 2. helped her not by
 - ☐ 3. helped her only by
 - ☐ 4. helped not only her by

Q.6 Select the most appropriate option to substitute the underlined segment in the given sentence.
Positive self-talk have a great affect on one's self-worth.

- Ans**
- ☐ 1. has a great affect
 - ☐ 2. have a great effect
 - ☐ 3. having a great affect
 - ☒ 4. has a great effect

Q.7 Parts of the following sentence have been given as options. Select the option that contains an error.
Deepak is studying B.tech. at IIT Delhi to become the engineer.

- Ans**
- ☐ 1. B.tech. at IIT Delhi
 - ☒ 2. the engineer
 - ☐ 3. to become
 - ☐ 4. Deepak is studying

Q.8 Select the option that expresses the given sentence in active voice.
He was given a reward for his contribution by the Governor.

- Ans**
- ☐ 1. For his contribution, he was rewarded by the governor.
 - ☐ 2. The governor rewarded him.
 - ☒ 3. The governor gave him a reward for his contribution.
 - ☐ 4. Rewarded by the governor, as he contributed along.

Q.9 Select the most appropriate ANTONYM of the given word.
Hostile

- Ans**
- ☐ 1. Incoherent
 - ☐ 2. Doubtful
 - ☐ 3. Eager
 - ☒ 4. Friendly

Q.10 Select the option that can be used as a one-word substitute for the given group of words.
Dealing with things in a practical and sensible way

- Ans**
- ☒ 1. Pragmatic
 - ☐ 2. Sceptic
 - ☐ 3. Stoic
 - ☐ 4. Cynic

Q.11 Select the correct spelling to fill in the blank.

Definitions of _____ are subjective to various interpretations.

- Ans**
- ☒ 1. sovereignty
 - ☐ 2. suverignity
 - ☐ 3. soverainity
 - ☐ 4. soverenty

Q.12 Select the most appropriate **ANTONYM** of the given word.
Foment

- Ans**
- ☐ 1. Proximity
 - ☐ 2. Remoteness
 - ☐ 3. Separation
 - ☒ 4. Regulate

Q.13 Select the **INCORRECTLY** spelt word.

- Ans**
- ☐ 1. Guilty
 - ☒ 2. Attempt
 - ☐ 3. Admit
 - ☐ 4. Agree

Q.14 Select the option that can be used as a one-word substitute for the given group of words
Anything pertaining to cats

- Ans**
- ☐ 1. Bovine
 - ☐ 2. Canine
 - ☐ 3. Taurine
 - ☒ 4. Feline

Q.15 Select the most appropriate option to fill in the blank.
Sharat is always _____ about showing up for work because he believes that tardiness gets us nowhere.

- Ans**
- ☐ 1. selective
 - ☐ 2. patient
 - ☐ 3. drowsy
 - ☒ 4. punctual

Q.16 Select the most appropriate synonym of the underlined word in the following sentence.
Sachin Tendulkar was an indispensable member of the Indian cricket team in his days.

- Ans**
- ☐ 1. Motivational
 - ☒ 2. Essential
 - ☐ 3. Optional
 - ☐ 4. Functional

Q.17 The following sentence has been divided into four segments. Identify the segment in which the article has been used **INCORRECTLY**.

Master Sam / is a heaviest / boy in / grade twelve.

- Ans**
- ☐ 1. boy in
 - ☐ 2. Master Sam
 - ☐ 3. grade twelve.
 - ☒ 4. is a heaviest

Q.18 Select the option that expresses the given sentence in passive voice.
We have to say little in this matter.

- Ans**
- ☐ 1. Little had to be said in this matter.
 - ☐ 2. In this matter, little is to be said.
 - ☐ 3. In this matter, little must be said.
 - ☒ 4. Little has to be said in this matter.

Q.19 Select the option that can be used as a one-word substitute for the given group of words.
That which is no longer in existence

- Ans**
- ☒ 1. Extinct
 - ☐ 2. Removed
 - ☐ 3. Vanished
 - ☐ 4. Destroyed

Q.20 Select the most appropriate synonym of the given word.
Cascade

- Ans**
- ☐ 1. Garden
 - ☒ 2. Waterfall
 - ☐ 3. Criticise
 - ☐ 4. Arcade

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option, in the questions that follow, to fill in each blank.

A dance which is created or choreographed and performed according (1)_____ the tenets of the Natya Shastra is called a classical dance. The two broad (2)_____ of classical dancing are the tandava and the lasya. Power and force are typical of the tandava; grace and delicacy of the lasya. Tandava is (3)_____ with Shiva, and lasya with Parvati. Dance which is pure movement is called nritya, and dance which is (4)_____ in nature is called nritya. A dancer, in the classical tradition, has to have years of training before he or she can begin to perform on the stage. The four main (5)_____ of classical dancing in India are : Bharat Natyam, Kathakali, Manipuri, Kathak .Bharat Natyam is the oldest and most popular dance-form of India.

SubQuestion No : 21

Q.21 Select the most appropriate option to fill in blank number 1.

- Ans**
- ☒ 1. to
 - ☐ 2. for
 - ☐ 3. of
 - ☐ 4. with

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option, in the questions that follow, to fill in each blank.

A dance which is created or choreographed and performed according (1)_____ the tenets of the Natya Shastra is called a classical dance. The two broad (2)_____ of classical dancing are the tandava and the lasya. Power and force are typical of the tandava; grace and delicacy of the lasya. Tandava is (3)_____ with Shiva, and lasya with Parvati. Dance which is pure movement is called nritya, and dance which is (4)_____ in nature is called nritya. A dancer, in the classical tradition, has to have years of training before he or she can begin to perform on the stage. The four main (5)_____ of classical dancing in India are : Bharat Natyam, Kathakali, Manipuri, Kathak .Bharat Natyam is the oldest and most popular dance-form of India.

SubQuestion No : 22

Q.22 Select the most appropriate option to fill in blank number 2.

- Ans**
- ☐ 1. criteria
 - ☐ 2. options
 - ☐ 3. display
 - ☒ 4. aspects

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option, in the questions that follow, to fill in each blank.

A dance which is created or choreographed and performed according (1)_____ the tenets of the Natya Shastra is called a classical dance. The two broad (2)_____ of classical dancing are the tandava and the lasya. Power and force are typical of the tandava; grace and delicacy of the lasya. Tandava is (3)_____ with Shiva, and lasya with Parvati. Dance which is pure movement is called nritya, and dance which is (4)_____ in nature is called nritya. A dancer, in the classical tradition, has to have years of training before he or she can begin to perform on the stage. The four main (5)_____ of classical dancing in India are : Bharat Natyam, Kathakali, Manipuri, Kathak .Bharat Natyam is the oldest and most popular dance-form of India.

SubQuestion No : 23

Q.23 Select the most appropriate option to fill in blank number 3.

- Ans**
- ☐ 1. renovate
 - ☐ 2. informed
 - ☐ 3. flourished
 - ☒ 4. associated

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option, in the questions that follow, to fill in each blank.

A dance which is created or choreographed and performed according (1)_____ the tenets of the Natya Shastra is called a classical dance. The two broad (2)_____ of classical dancing are the tandava and the lasya. Power and force are typical of the tandava; grace and delicacy of the lasya. Tandava is (3)_____ with Shiva, and lasya with Parvati. Dance which is pure movement is called nritya, and dance which is (4)_____ in nature is called nritya. A dancer, in the classical tradition, has to have years of training before he or she can begin to perform on the stage. The four main (5)_____ of classical dancing in India are : Bharat Natyam, Kathakali, Manipuri, Kathak .Bharat Natyam is the oldest and most popular dance-form of India.

SubQuestion No : 24

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

- Ans**
- ☐ 1. vegetative
 - ☐ 2. commodious
 - ☐ 3. haphazard
 - ☒ 4. interpretative

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option, in the questions that follow, to fill in each blank.

A dance which is created or choreographed and performed according (1)_____ the tenets of the Natya Shastra is called a classical dance. The two broad (2)_____ of classical dancing are the tandava and the lasya. Power and force are typical of the tandava; grace and delicacy of the lasya. Tandava is (3)_____ with Shiva, and lasya with Parvati. Dance which is pure movement is called nritya, and dance which is (4)_____ in nature is called nritya. A dancer, in the classical tradition, has to have years of training before he or she can begin to perform on the stage. The four main (5)_____ of classical dancing in India are : Bharat Natyam, Kathakali, Manipuri, Kathak .Bharat Natyam is the oldest and most popular dance-form of India.

SubQuestion No : 25

Q.25 Select the most appropriate option to fill in blank number 5.

- Ans**
- ☐ 1. terminologies
 - ☒ 2. schools
 - ☐ 3. characters
 - ☐ 4. functions