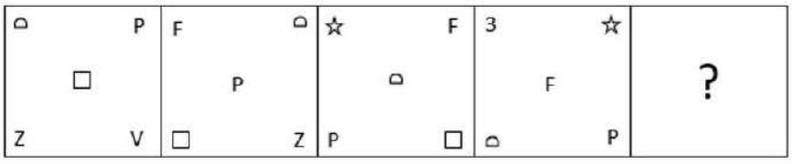
Combined Graduate level Examination 2023 Tier I

Roll Number	
Candidate Name	
Venue Name	
Exam Date	21/07/2023
Exam Time	2:30 PM - 3:30 PM
Subject	Combined Graduate Level Examination Tier I 2023

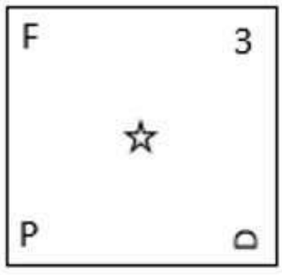
Section : **General Intelligence and Reasoning**

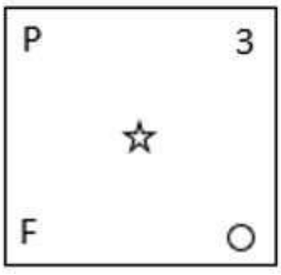
Q.1 Select the figure from the options that can replace the question mark (?) and complete the given pattern.

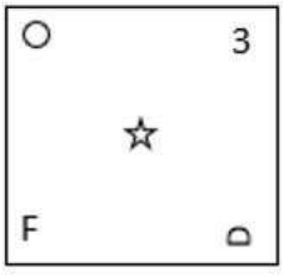


Ans

1.

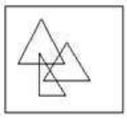
2. 

3. 

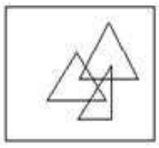
4. 

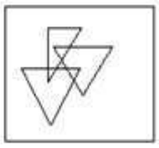
Question ID : **26433085792**
Status : **Answered**
Chosen Option : **4**

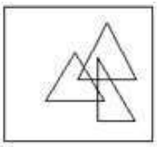
Q.2 Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.

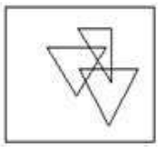


Ans

✔ 1. 

✘ 2. 

✘ 3. 

✘ 4. 

Question ID : **26433079528**
Status : **Answered**
Chosen Option : **1**

Q.3 **Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.**

Ans

✘ 1. HJNT

✘ 2. PRVB

✔ 3. SUXZ

✘ 4. MOSY

Question ID : **264330143760**
Status : **Answered**
Chosen Option : **3**

Q.4 **'A # B' means 'A is the brother of B'.**
'A @ B' means 'A is the daughter of B'.
'A & B' means 'A is the husband of B'.
'A % B' means 'A is the wife of B'.
If D @ N @ H & Y @ F % V, then how is V related to H?

Ans
✗ 1. Father's father
✗ 2. Son-in-law
✓ 3. Wife's father
✗ 4. Father

Question ID : **264330142907**
Status : **Answered**
Chosen Option : **3**

Q.5 **Which two signs and numbers need to be interchanged to make the following equation correct?**
24 – (9 ÷ 12) + (84 × 4) + 28 = 23

Ans
✗ 1. 24 and 28, – and ÷
✗ 2. 24 and 28, × and ÷
✗ 3. 9 and 4, ÷ and ×
✓ 4. 12 and 4, ÷ and ×

Question ID : **26433057108**
Status : **Answered**
Chosen Option : **4**

Q.6 **A % B means 'A is the daughter of B'**
A $ B means 'A is the son of B'
A * B means 'A is the sister of B'
If H % I $ J $ K * L, then how is H related to J?

Ans
✗ 1. Son
✓ 2. Son's daughter
✗ 3. Son's son
✗ 4. Daughter

Question ID : **264330120831**
Status : **Answered**
Chosen Option : **2**

Q.7 **Select the set in which the numbers are related in the same way as are the numbers of the following set.**
(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 /subtracting /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)
(5, 7, 140)
(6, 4, 96)

Ans
✗ 1. (7, 3, 63)
✗ 2. (5, 14, 210)
✓ 3. (9, 2, 72)
✗ 4. (6, 7, 126)

Question ID : **264330130345**
Status : **Answered**
Chosen Option : **3**

Q.8 **Select the set in which the numbers are related in the same way as are the numbers of the given set.**
(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 /subtracting /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.)
(15, 45, 90)
(8, 24, 48)

Ans
✗ 1. (9, 27, 45)
✗ 2. (7, 21, 24)
✓ 3. (6, 18, 36)
✗ 4. (12, 36, 68)

Question ID : **26433078954**
Status : **Answered**
Chosen Option : **3**

Q.9 **Which of the following numbers will replace the question mark (?) in the given series?**
2, 6, ?, 54, 162, 486

Ans
✗ 1. 16
✗ 2. 20
✓ 3. 18
✗ 4. 24

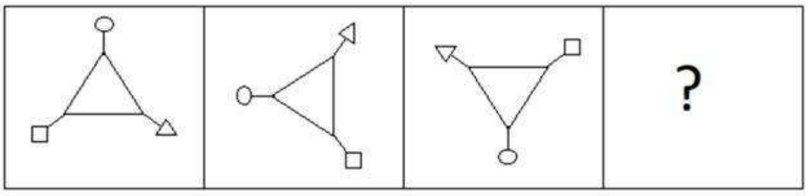
Question ID : **26433090929**
Status : **Answered**
Chosen Option : **3**

Q.10 **Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?**
WUS, QOM, KIG, ?

Ans
✗ 1. ACE
✗ 2. CAE
✓ 3. ECA
✗ 4. EAC

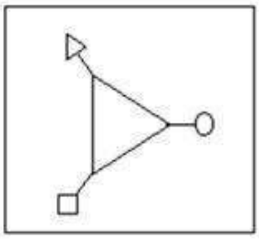
Question ID : **26433069528**
Status : **Answered**
Chosen Option : **3**

Q.11 Select the figure that will come next in the following figure series.

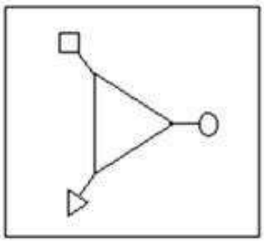


Ans

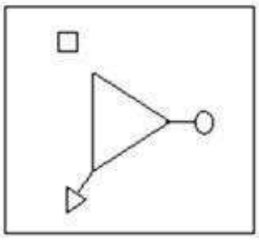
✗ 1.



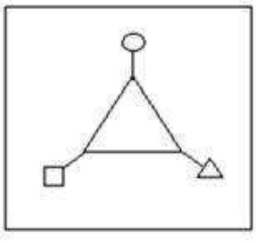
✓ 2.



✗ 3.



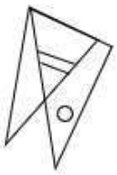
✗ 4.

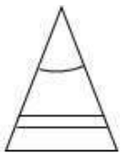


Question ID : **26433087068**
Status : **Answered**
Chosen Option : **2**

Q.12 Select the option figure which is embedded in the given figure (rotation is NOT allowed).

Ans

✗ 1. 

✗ 2. 

✓ 3.

✗ 4.

Question ID : **26433097256**
Status : **Answered**
Chosen Option : **3**

Q.13 **Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.**
6 : 22 :: 17 : 66 :: 4 : ?

Ans
✗ 1. 10
✓ 2. 14
✗ 3. 12
✗ 4. 18

Question ID : **26433082445**
Status : **Answered**
Chosen Option : **2**

Q.14 **Select the option that represents the letters that, when placed from left to right in the following blanks, will complete the letter-series.**
A S D F _ A _ _ F G _ U D _ G A _ _ F G

Ans
1. G T D A F V D
2. F T E A F W D
3. F T D A F V D
4. G T E A G X E

Question ID : **264330143748**
Status : **Answered**
Chosen Option : **1**

Q.15 **In a certain code language, 'ABOVE' is written as '9' and 'SHINE' is written as '11'. How will 'PARTY' be written in that language?**

Ans
1. 12
2. 16
3. 15
4. 13

Question ID : **26433082573**
Status : **Answered**
Chosen Option : **2**

Q.16 **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:
Some laptops are phones.
Some phones are capsules.
Some capsules are pens.

Conclusions:
I. Some laptops are capsules.
II. Some phones are pens.
III. Some pens are capsules.
IV. Some pens are phones.

Ans
1. Only conclusions II and IV follow
2. Only conclusions II and III follow
3. Only conclusion I follows
4. Only conclusion III follows

Question ID : **26433068553**
Status : **Answered**
Chosen Option : **4**

Q.17 **The second number in the given number pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) are followed in all the number pairs, EXCEPT one. Find that odd number pair.**

Ans
1. (64, 48)
2. (72, 27)
3. (96, 72)
4. (108, 81)

Question ID : **264330143684**
Status : **Answered**
Chosen Option : **2**

Q.18 **In a certain code language, 'RAT' is coded as '27' and 'ZEBRA' is coded as '125'. How will 'RABBIT' be coded in that language?**

Ans
1. 236
2. 224
3. 212
4. 216

Question ID : **264330129680**
Status : **Answered**
Chosen Option : **4**

Q.19 **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 from the statements.**

Statements:
All blocks are toys.
All toys are books.
All books are stories.

Conclusions:
I. Some toys are blocks.
II. Some blocks are books.
III. Some stories are toys.

Ans
1. Only conclusions I and III follow
2. Only conclusions II and III follow
3. Only conclusions I and II follow
4. All the conclusions follow

Question ID : **26433086241**
Status : **Answered**
Chosen Option : **4**

Q.20 **If today is Friday, which day will it be after 72 days?**

Ans
1. Thursday
2. Sunday
3. Friday
4. Tuesday

Question ID : **26433067251**
Status : **Answered**
Chosen Option : **2**

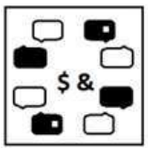
Q.21 **Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.**
4 : 33 :: ? : 109 :: 8 : 257

Ans
✗ 1. 5
✗ 2. 9
✓ 3. 6
✗ 4. 7

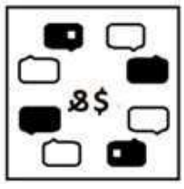
Question ID : **26433082765**
Status : **Answered**
Chosen Option : **3**

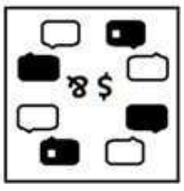
Q.22 Which of the answer figures is the exact mirror image of the given problem figure when the mirror is held at the right side?

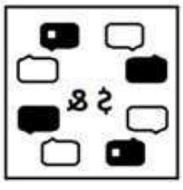
Problem figure:

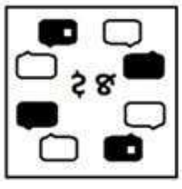


Ans

✗ 1.


✗ 2.


✓ 3.


✗ 4.


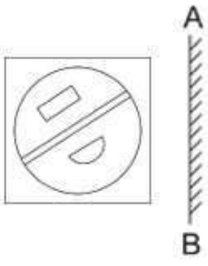
Question ID : **26433067414**
Status : **Answered**
Chosen Option : **3**

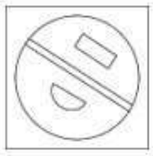
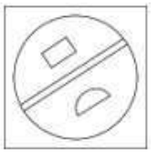
Q.23 **Select the set in which the numbers are NOT related in the same way as are the numbers of the following sets.**
(4, 11, 137),(3, 12, 153)
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

Ans
✗ 1. (7, 8, 113)
✗ 2. (13, 14, 365)
✗ 3. (9, 11, 202)
✓ 4. (4, 3, 61)

Question ID : **26433097246**
Status : **Answered**
Chosen Option : **4**

Q.24 **Select the correct mirror image of the given figure when the mirror is placed at AB.**



Ans
✓ 1. 
✗ 2. 
✗ 3.
✗ 4.

Question ID : **264330106438**
Status : **Answered**
Chosen Option : **1**

Q.25 **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 plates are bowls.
No bowl is a glass.
Some glasses are vessels.

Conclusions:
I. Some glasses are plates.
II. Some bowls are plates.
III. Some vessels are bowls.

Ans
✗ 1. Both conclusions II and III follow.
✗ 2. Both conclusions I and II follow.
✓ 3. Only conclusion II follows.
✗ 4. Only conclusion I follows.

Question ID : **26433093152**
Status : **Answered**
Chosen Option : **3**

Section : **General Awareness**

Q.1 **The first modern Olympic Games was held in the year _____.**

Ans
✗ 1. 1894
✗ 2. 1892
✓ 3. 1896
✗ 4. 1900

Question ID : **264330110348**
Status : **Answered**
Chosen Option : **3**

Q.2 **In which month of the Islamic calendar is 'Ramadan',a holy time when Muslims around the world fast and focus their attention on giving to charity (known as Zakat), observed?**

Ans
✓ 1. Ninth
✗ 2. Second
✗ 3. Seventh
✗ 4. Sixth

Question ID : **264330113182**
Status : **Not Answered**
Chosen Option : **--**

Q.3 Radhe Sham Barle received the Padma Shri in 2020-21 for promoting the Panthi dance of tribals from the Santnami community on the birth anniversary of Guru Ghasidas. Which state does this dance form belong to?

Ans
1. Bihar
2. Chhattisgarh
3. Madhya Pradesh
4. Odisha

Question ID : **26433064797**
Status : **Answered**
Chosen Option : **2**

Q.4 Padma Shri awardee, Darshana Jhaveri is a _____ dancer of India.

Ans
1. Kathakali
2. Bharatanatyam
3. Kathak
4. Manipuri

Question ID : **26433094880**
Status : **Answered**
Chosen Option : **4**

Q.5 Which of the following trade agreements aims to 'strengthen intra-SAARC economic cooperation to maximise the region's potential for trade and achieving development for their people'?

Ans
1. APTA
2. SAFTA
3. NAFTA
4. LAIA

Question ID : **264330111317**
Status : **Answered**
Chosen Option : **2**

Q.6 Which of the following Articles of the Constitution of India enshrines to value and preserve the rich heritage of our composite culture?

Ans
1. Article 51 (A)
2. Article 43 (A)
3. Article 48 (A)
4. Article 124 (A)

Question ID : **264330110564**
Status : **Answered**
Chosen Option : **3**

Q.7 **Chandragupta Maurya overthrew the Nanda Dynasty of Magadha with the help of _____.**

Ans

✗ 1. Skandagupta

✗ 2. Chandragupta II

✓ 3. Vishnugupta

✗ 4. Samudragupta

Question ID : **264330117682**
Status : **Answered**
Chosen Option : **3**

Q.8 **In December 2021, who among the following became the first-ever Indian male shuttler to play in the final of the BWF World Championship Final?**

Ans

✗ 1. B Sai Praneeth

✓ 2. Kidambi Srikanth

✗ 3. Chirag Shetty

✗ 4. V Diju

Question ID : **26433086890**
Status : **Answered**
Chosen Option : **2**

Q.9 The sex ratio in various states and Union Territories is very important to get information about women in the country. Given below are statistics as per Census of India 2011. Match the following and identify the correct option.

States/UT	Females per 1000 males
1. Kerala	a. 1037
2. Puducherry	b. 1084
3. Delhi	c. 879
4. Haryana	d. 868

Ans

✗ 1. 1-b, 2-c, 3-a, 4-d

✓ 2. 1-b, 2-a, 3-d, 4-c

✗ 3. 1-b, 2-a, 3-c, 4-d

✗ 4. 1-a, 2-b, 3-c, 4-d

Question ID : **264330101309**
Status : **Answered**
Chosen Option : **3**

Q.10 **The All India Forward Bloc was founded by _____ in 1939 after resigning from the Congress Presidentship.**

Ans

✗ 1. Bal Gangadhar Tilak

✗ 2. Mahatma Gandhi

✗ 3. Jawaharlal Nehru

✓ 4. Subhash Chandra Bose

Question ID : **264330141517**
Status : **Answered**
Chosen Option : **4**

Q.11 Pradhan Mantri Jan Dhan Yojana (PMJDY) - National Mission for Financial Inclusion completed how many years of implementation in 2022?

Ans
1. 6 years
2. 9 years
3. 8 years
4. 4 years

Question ID : **264330132966**
Status : **Answered**
Chosen Option : **1**

Q.12 Which of the following is also known as the 'lender of the last resort'?

Ans
1. SEBI
2. RRBs
3. RBI
4. SBI

Question ID : **264330109368**
Status : **Answered**
Chosen Option : **3**

Q.13 Which of the following group elements are called chalcogens?

Ans
1. Group-16
2. Group-2
3. Group-17
4. Group-18

Question ID : **264330109904**
Status : **Answered**
Chosen Option : **1**

Q.14 Which of the following acids makes up 55–80% of olive oil, making it a good choice for most cooking methods?

Ans
1. Lauric acid
2. Oleic acid
3. Arachidic acid
4. Stearic acid

Question ID : **264330110096**
Status : **Answered**
Chosen Option : **2**

Q.15 What is an instrument that sends pulses of electromagnetic energy into the atmosphere to detect rainfall, determine its speed and intensity, and identify precipitation types such as rain, snow or hail?

Ans
1. Barometer
2. Spectral pyranometer
3. 2D sonic anemometer
4. Doppler weather radar

Question ID : **26433059458**
Status : **Answered**
Chosen Option : **4**

Q.16 Which of the following statements is/are correct regarding Parliamentary Committees?
A. A minister cannot be a member of the Public Accounts Committee.
B. The members of the Estimates Committee are nominated by the Speaker of the Lok Sabha.
C. A minister can be a member of the Estimates Committee if he is nominated by the Speaker.
D. A member of the Committee on Public Undertakings will have tenure of 2 years.

Ans
1. A only
2. A, B and C only
3. A, B, C and D
4. B, C and D only

Question ID : **264330114788**
Status : **Marked For Review**
Chosen Option : **2**

Q.17 The famous Arabic scholar Al Biruni came to contact with India through _____ in the eleventh century A.D.

Ans
1. Abdullah Shah Ghazi
2. Mahmud Ghaznavi
3. Al-Walid I
4. Muhammad Bin Qasim

Question ID : **264330114074**
Status : **Answered**
Chosen Option : **2**

Q.18 When did the All India Congress formalise the demand for 'Purna Swaraj' or full independence for India?

Ans
1. At its Karachi Session in 1931
2. At its Lahore Session in 1929
3. At its Guwahati Session in 1926
4. At its Madras Session in 1927

Question ID : **264330106570**
Status : **Answered**
Chosen Option : **2**

Q.19 'A Plan of Economic Development for India' is also known as _____.

Ans
✗ 1. Delhi Plan
✗ 2. Gujarat Plan
✗ 3. Surat Plan
✓ 4. Bombay Plan

Question ID : **264330109381**
Status : **Not Answered**
Chosen Option : **--**

Q.20 For the year 2022, who among the following won the Indian Film Personality Award awarded by International Film Festival of India (IFFI)?

Ans
✓ 1. Chiranjeevi
✗ 2. Prakash Raj
✗ 3. Mahesh Babu
✗ 4. Rajnikant

Question ID : **264330132597**
Status : **Answered**
Chosen Option : **3**

Q.21 In the 15th century, a text called _____ is ascribed popularly to Lochan Kavi.

Ans
✗ 1. Hridayprakash
✗ 2. Sangeet Darpan
✗ 3. Anup Vilas
✓ 4. Raag Tarangini

Question ID : **26433074126**
Status : **Not Answered**
Chosen Option : **--**

Q.22 Which of the following statement is NOT correct regarding the liver?

Ans
✓ 1. It is situated in the upper part of the abdomen on the left side.
✗ 2. It secretes bile juice that is stored in a sac called the gall bladder.
✗ 3. It is the largest gland in the body.
✗ 4. It is a reddish-brown gland.

Question ID : **26433055106**
Status : **Answered**
Chosen Option : **1**

Q.23 During which of the following periods was the FIFA U-17 Women's World Cup held in 2022?

Ans
✔ 1. 11-30 October
✗ 2. 4-11 April
✗ 3. 8-21 June
✗ 4. 11-19 December

Question ID : **264330113751**
Status : **Not Answered**
Chosen Option : **--**

Q.24 Whose research was fundamental in establishing the modern discipline known as surface tension,Which describes the properties of liquid and solid surfaces and interfaces?

Ans
✗ 1. Gerty Cori
✗ 2. Nettie Stevens
✗ 3. Lise Meitner
✔ 4. Agnes Pockels

Question ID : **264330144048**
Status : **Not Answered**
Chosen Option : **--**

Q.25 Where does the Narmada river rise?

Ans
✗ 1. Western Ghats
✗ 2. Gawilgarh Hills
✗ 3. Satpura Ranges
✔ 4. Amarkantak Ranges

Question ID : **264330110653**
Status : **Answered**
Chosen Option : **4**

Section : **Quantitative Aptitude**

Q.1 Simplify the following expression.

$$[(1+p)(1+p^2)(1+p^4)(1+p^8)(1+p^{16})(1-p)-1]$$

Ans
✔ 1. $-p^{32}$
✗ 2. p^{32}
✗ 3. $(1+p^{32})$
✗ 4. $(1-p^{32})$

Question ID : **264330131494**
Status : **Answered**
Chosen Option : **1**

Q.2 S_1 and S_2 are two stations which are 195 km apart. A train starts from S_1 at 4:00 pm and moves towards S_2 at the speed of 65 km/h. Another train starts from S_2 at 5:00 pm and moves towards S_1 at the speed of 35 km/h. At what time will the two trains meet?

Ans
✗ 1. 6:06 p.m.
✗ 2. 6:30 p.m.
✗ 3. 6:15 p.m.
✓ 4. 6:18 p.m.

Question ID : **264330131468**
Status : **Answered**
Chosen Option : **4**

Q.3 Two chords AB and CD of a circle meet inside the circle at point P. If AP = 12 cm, AB = 20 cm and CP = 16 cm, then CD = ?

Ans
✓ 1. 22 cm
✗ 2. 15 cm
✗ 3. 21 cm
✗ 4. 24 cm

Question ID : **26433074485**
Status : **Answered**
Chosen Option : **1**

Q.4 There are 15 students in a class. Their average weight is 40 kg. When one student leaves the class, the average weight is 39.5 kg. What is the weight of the student who left the class (where kg means kilogram)?

Ans
✓ 1. 47 kg
✗ 2. 42 kg
✗ 3. 52 kg
✗ 4. 48 kg

Question ID : **264330130909**
Status : **Answered**
Chosen Option : **1**

Q.5 In $\triangle XYZ$, right angled at Y, if $\sin X = \frac{1}{2}$, find the value of $\cos X \cos Z + \sin X \sin Z$.

Ans
✓ 1. $\frac{\sqrt{3}}{2}$
✗ 2. $\frac{\sqrt{3}}{4}$
✗ 3. $\frac{2}{\sqrt{3}}$
✗ 4. $\sqrt{3}$

Question ID : **26433075265**
Status : **Answered**
Chosen Option : **1**

Q.6 **Rekha alone can complete a work in 16 days, and Bina alone can complete the same work in 12 days. Starting with Rekha , they work on alternate days. The total work will be completed in:**

Ans

✗ 1. $12\frac{3}{4}$ days

✗ 2. 12 days

✗ 3. 13 days

✓ 4. $13\frac{3}{4}$ days

Question ID : **264330118105**
Status : **Answered**
Chosen Option : **4**

Q.7 **A certain amount is lent at x% p.a. simple interest for 3 years. Instead, if the amount was lent at 3x% p.a. simple interest for 'y' more years, then the simple interest would have been seven times the earlier interest. What is the value of y?**

Ans

✗ 1. 3

✓ 2. 4

✗ 3. 5

✗ 4. 6

Question ID : **264330104257**
Status : **Answered**
Chosen Option : **2**

Q.8 **The value of (16 + 14) ÷ 2 – 12 + 16 × 4 – 28 + 13 (–16 + 13) is:**

Ans

✗ 1. 6

✓ 2. 0

✗ 3. –3

✗ 4. 3

Question ID : **26433062620**
Status : **Answered**
Chosen Option : **2**

Q.9 **Study the given table and answer the question that follows.**
The table gives the number of graduate students enrolled in 4 different colleges A, B, C, and D in a city over the years 2010 to 2014 and also the number of students who passed in the final examination during these years.

Year	2010	2010	2011	2011	2012	2012	2013	2013	2014	2014
College	Enrolled	Pass	Enrolled	Pass	Enrolled	Pass	Enrolled	Pass	Enrolled	Pass
A	680	620	600	560	720	700	800	760	750	700
B	550	530	450	420	600	550	650	620	700	680
C	480	450	520	500	580	550	620	600	720	700
D	710	650	750	710	680	640	720	690	740	710

Find the ratio of the average of students enrolled from college D to the average of students who passed from college D over all the years.

Ans
✗ 1. 19 : 17
✓ 2. 18 : 17
✗ 3. 21 : 17
✗ 4. 20 : 17

Question ID : **264330129949**
Status : **Answered**
Chosen Option : **2**

Q.10 **If x and y are positive numbers such that x - y = 5 and xy = 150, then the value of (x + y) is:**

Ans
✗ 1. 45
✓ 2. 25
✗ 3. 35
✗ 4. 15

Question ID : **264330122697**
Status : **Answered**
Chosen Option : **2**

Q.11 The value of $\frac{3}{2} \div \frac{1}{7} \times \left[\left(\frac{1}{2} - \frac{1}{3}\right) \div \frac{1}{42}\right] = ?$

Ans
✗ 1. $72\frac{1}{3}$
✓ 2. $73\frac{1}{2}$
✗ 3. $72\frac{1}{2}$
✗ 4. $71\frac{2}{3}$

Question ID : **264330122983**
Status : **Answered**
Chosen Option : **2**

Q.12 **In a circular race of 1600 m, A and B start from the same point and at the same time with speeds of 27 km/h and 45 km/h, respectively. After how long will they meet again for the first time on the track when they are running in the same direction?**

Ans
✗ 1. 90 seconds
✓ 2. 320 seconds
✗ 3. 240 seconds
✗ 4. 180 seconds

Question ID : **264330118101**
Status : **Answered**
Chosen Option : **2**

Q.13 A can do 20% of a work in 4 days, and B can do $33\frac{1}{3}\%$ of the same work in 10 days. They worked together for 9 days and then C completed the remaining work in 6 days. B and C together will complete 75% of the same work in:

Ans
✗ 1. 12 days
✗ 2. 9 days
✗ 3. 11 days
✓ 4. 10 days

Question ID : **264330120037**
Status : **Answered**
Chosen Option : **4**

Q.14 **What is the equivalent discount percentage corresponding to two successive discounts of 9% and 17%?**

Ans
✗ 1. 27.53%
✗ 2. 26.47%
✗ 3. 26.00%
✓ 4. 24.47%

Question ID : **264330103961**
Status : **Answered**
Chosen Option : **4**

Q.15 If $\frac{\cos\alpha}{\sin\beta} = 10$ and $\frac{\cos\alpha}{\cos\beta} = 11$, then the value of $\cos^2\beta$ is:

Ans
✗ 1. $\frac{121}{132}$
✓ 2. $\frac{100}{221}$
✗ 3. $\frac{88}{108}$
✗ 4. $\frac{221}{121}$

Question ID : **26433066262**
Status : **Answered**
Chosen Option : **2**

Q.16 **Three solid metallic spheres of radii 1 cm, 6 cm and 8 cm, respectively, are melted and recast into a single solid sphere. The radius of the new sphere so formed is:**

Ans
✓ 1. 9.0 cm
✗ 2. 5.9 cm
✗ 3. 7.7 cm
✗ 4. 8.5 cm

Question ID : **264330103573**
Status : **Answered**
Chosen Option : **1**

Q.17 Simplify the following expression.

$$\frac{\sin\theta - 2\sin^3\theta}{2\cos^3\theta - \cos\theta}$$

Ans
✓ 1. tanθ
✗ 2. sinθ
✗ 3. secθ
✗ 4. cosθ

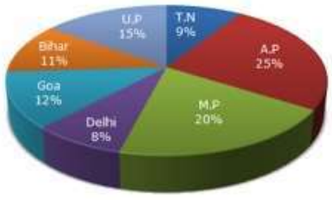
Question ID : **26433079810**
Status : **Answered**
Chosen Option : **1**

Q.18 **Richa, Rita and Reena can independently complete a work in 8 hours, 12 hours and 24 hours, respectively. If they work together, how much time will they take to complete that work?**

Ans
✔ 1. 4 hours
✘ 2. 5 hours
✘ 3. 2 hours
✘ 4. 3 hours

Question ID : **264330106022**
Status : **Answered**
Chosen Option : **1**

Q.19 **Study the given data and answer the question that follows.**
Data regarding population of different states in the year 2015 is shown in the pie-chart and table.



States	Sex and Literacy-wise Population Ratio			
	Sex		Literacy	
	M	F	Literate	Illiterate
A.P	5	3	2	7
M.P	3	1	1	4
Delhi	2	3	2	1
Goa	3	5	3	2
Bihar	3	4	4	1
U.P.	3	2	7	2
T.N.	3	4	9	4

If the total population of the given states is 31,5000, then what was the total number of illiterate people in Goa and M.P.?

Ans
✔ 1. 65,520
✘ 2. 81,900
✘ 3. 1,20,500
✘ 4. 90,870

Question ID : **264330131356**
Status : **Answered**
Chosen Option : **1**

Q.20 **The area of the sector of a circle of radius 28 cm is 112 cm^2. Find the length of the corresponding arc of the sector.**

Ans
✗ 1. 4 cm
✓ 2. 8 cm
✗ 3. 6 cm
✗ 4. 5 cm

Question ID : **264330143534**
Status : **Answered**
Chosen Option : **2**

Q.21 **John got 20% marks in an examination and failed by 10 marks. In the same examination, Jack got 35% marks which were 20 more than the minimum passing marks. Find the percentage of minimum marks required to pass.**

Ans
✗ 1. 30
✗ 2. 35
✓ 3. 25
✗ 4. 20

Question ID : **264330122749**
Status : **Answered**
Chosen Option : **3**

Q.22 **The fourth proportional of the numbers 8, 12 and 14 is:**

Ans
✗ 1. 15
✗ 2. 18
✗ 3. 24
✓ 4. 21

Question ID : **264330103727**
Status : **Answered**
Chosen Option : **4**

Q.23 **A shopkeeper marks his goods in such a way that after allowing a discount of 22% he gains 20%. If the cost price of the article is ₹650, then its marked price is:**

Ans
✗ 1. ₹900
✓ 2. ₹1,000
✗ 3. ₹850
✗ 4. ₹950

Question ID : **26433082373**
Status : **Answered**
Chosen Option : **2**

Q.24 If $(x^2 - \frac{1}{x^2}) = 4\sqrt{6}$, and $x > 1$, what is the value of $(x^3 - \frac{1}{x^3})$?

Ans
1. $20\sqrt{2}$
2. $24\sqrt{2}$
3. $18\sqrt{2}$
4. $22\sqrt{2}$

Question ID : **264330101370**
Status : **Answered**
Chosen Option : **4**

Q.25 **If the volume of one brick is 0.0014 m^3, then how many bricks will be required to construct a wall of length 14 m, breadth 0.125 m and height 5 m?**

Ans
1. 5250
2. 3250
3. 6250
4. 4250

Question ID : **26433075750**
Status : **Answered**
Chosen Option : **3**

Section : **English Comprehension**

Q.1 **Select the option that expresses the given sentence in passive voice.**
Take the wheels.

Ans
1. Let the wheels take you.
2. Let you take the wheels.
3. Let the wheels be taken by you.
4. Let wheels you take.

Question ID : **264330134135**
Status : **Answered**
Chosen Option : **3**

Q.2 **Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.**

Greenhouse gases <u>trapped beside</u> Earth's atmosphere cause global warming.

Ans
1. trapped inside
2. No substitution
3. trapped outside
4. trapped beyond

Question ID : **26433084580**
Status : **Answered**
Chosen Option : **1**

Q.3 **Select the INCORRECTLY spelt word.**

Ans
1. Arrangement
2. Jeopardize
3. Corruption
4. Remmission

Question ID : **26433092316**
Status : **Answered**
Chosen Option : **2**

Q.4 **Correct the spelling of the underlined word.**

While driving his car, he applied breaks in time to save himself and his family from an accident.

Ans
1. brave
2. brakes
3. bricks
4. braces

Question ID : **26433093040**
Status : **Answered**
Chosen Option : **2**

Q.5 **Select the most appropriate synonym of the given word.**
Jargon

Ans
1. Slang
2. Verboseness
3. Formality
4. Eloquence

Question ID : **26433097029**
Status : **Answered**
Chosen Option : **4**

Q.6 **The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.**

If things were not going to be normal / after the pandemic, mankind will / have to accept the New Normal.

Ans
1. after the pandemic, mankind will
2. have to accept the New Normal
3. If things were not going to be normal
4. no error

Question ID : **26433073772**
Status : **Answered**
Chosen Option : **1**

Q.7 **Select the option that expresses the given sentence in passive voice.**

Let me buy an expensive bag for my friend.

Ans
1. I request you to buy an expensive bag for my friend.
2. An excessive bag will be bought by me for my friend.
3. Let an expensive bag was bought by me for my friend.
4. Let an expensive bag be bought by me for my friend.

Question ID : **264330141537**
Status : **Answered**
Chosen Option : **4**

Q.8 **Select the most appropriate idiom/phrase that can substitute the underlined segment in the given sentence.**

Your career is now <u>completely obsolete</u>.

Ans
1. moving like a worm
2. as dead as a doornail
3. dead even
4. hanging by a thread

Question ID : **26433088935**
Status : **Answered**
Chosen Option : **2**

Q.9 **Select the most appropriate meaning of the underlined word in the given sentence.**

Arthur has some strange ideas, but on this occasion, I am <u>inclined</u> to agree with him.

Ans
1. tended
2. conflicted
3. refused
4. conspired

Question ID : **26433092303**
Status : **Answered**
Chosen Option : **1**

Q.10 **Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.**

A. Water gives itself away for our agriculture and other uses.
B. Trees give flowers, fruits and wood.
C. Giving soothes an individual with the vibration of joy.
D. Unconditional giving is a natural principle and evident everywhere in nature which gives us solid, liquids and minerals.

Ans
1. ACDB
2. CDAB
3. CBDA
4. BDCA

Question ID : **26433096964**
Status : **Answered**
Chosen Option : **2**

Q.11 **Select the most appropriate meaning of the underlined word in the following sentence.**

During the wedding ceremony, the bride seemed even quieter and more <u>diffident</u> than usual.

Ans
✗ 1. Showing lack of interest
✗ 2. Bold in others' company
✗ 3. Giving a false or misleading impression
✓ 4. Shy due to lack of confidence.

Question ID : **26433074407**
Status : **Answered**
Chosen Option : **4**

Q.12 **Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.**

<u>While he saw the bear</u>, he ran to the nearest tree, dropped his gun and climbed to a safe place.

Ans
✓ 1. When he saw the bear
✗ 2. No substitution
✗ 3. No sooner did he see
✗ 4. Hardly he saw the bear

Question ID : **26433073904**
Status : **Answered**
Chosen Option : **1**

Q.13 **Select the most appropriate one-word substitution of the given group of words.**

Capable of or adapted for turning easily from one to another of various tasks, fields of endeavour, etc. and is able to do many things.

Ans
✓ 1. Versatile
✗ 2. Turncoat
✗ 3. Talented
✗ 4. Flexible

Question ID : **26433090857**
Status : **Answered**
Chosen Option : **1**

Q.14 **Select the most appropriate ANTONYM of the word given in the bracket to fill in the blank.**

There are _____ (definite) weaknesses in their security arrangements.

Ans
✗ 1. monotonous
✗ 2. hazy
✗ 3. subtle
✓ 4. vague

Question ID : **26433060328**
Status : **Answered**
Chosen Option : **3**

Q.15 **The following sentence has been split into four segments. Identify the segment that contains a grammatical error.**

This will be most difficult of / the adjustments we have to make / because we have been used to / spending a lot on guests.

Ans
1. spending a lot on guests
2. the adjustments we have to make
3. This will be most difficult of
4. because we have been used to

Question ID : **26433092282**
Status : **Answered**
Chosen Option : **1**

Q.16 **Select the most appropriate option that can substitute the underlined segment in the given sentence.**

The family has visit many parts of Europe when the man was working with an international educational agency.

Ans
1. had visited
2. are visited
3. have visit
4. has visiting

Question ID : **26433081317**
Status : **Answered**
Chosen Option : **1**

Q.17 **Select the correct idiom that can substitute the italicised group of words in the given sentence.**

My business partners thought that I would simply accept their cheating, but they will soon realise that *I am more powerful than what they expected*.

Ans
1. damsel in distress
2. they caught a tartar
3. cutting a cloth
4. casting pearls before swine

Question ID : **26433093258**
Status : **Answered**
Chosen Option : **2**

Q.18 **Select the most appropriate ANTONYM of the underlined word.**

This is such a rowdy classroom.

Ans
1. Compliant
2. Chattering
3. Disorderly
4. Noisy

Question ID : **26433090869**
Status : **Answered**
Chosen Option : **1**

Q.19 **Select the most appropriate ANTONYM of the underlined word.**

She will <u>probably</u> come tonight for a party.

Ans
- ✔ 1. definitely
- ✘ 2. perhaps
- ✘ 3. apparently
- ✘ 4. possibly

Question ID : **264330122121**
Status : **Answered**
Chosen Option : **1**

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

Fierce

Ans
- ✘ 1. Fanatic
- ✔ 2. Aggressive
- ✘ 3. Fraud
- ✘ 4. Gentle

Question ID : **26433073694**
Status : **Answered**
Chosen Option : **2**

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
I went on (1) _____ trying to 'find out how to'; but I wrote two or three novels without feeling that I had made (2) _____ progress. It was not until I wrote 'Ethan Frome' that I suddenly felt the artisan's full (3) _____ of his implements. When 'Ethan Frome' first appeared, I was (4) _____ criticised by the reviewers for what was considered the clumsy structure of the tale. I had pondered long on this structure, had felt its peculiar difficulties, and possible awkwardness, but could think of no (5) _____ which would serve as well in the given case: and though I am far from thinking 'Ethan Frome' is my best novel, and am bored and even exasperated when I am told that it is, I am still sure that its structure is not its weak point.

SubQuestion No : 21

Q.21 **Select the most appropriate option to fill in blank no. 1.**

Ans
- ✔ 1. steadily
- ✘ 2. playfully
- ✘ 3. ambiguously
- ✘ 4. plausibly

Question ID : **264330139213**
Status : **Answered**
Chosen Option : **1**

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
I went on (1) _____ trying to 'find out how to'; but I wrote two or three novels without feeling that I had made (2) _____ progress. It was not until I wrote 'Ethan Frome' that I suddenly felt the artisan's full (3) _____ of his implements. When 'Ethan Frome' first appeared, I was (4) _____ criticised by the reviewers for what was considered the clumsy structure of the tale. I had pondered long on this structure, had felt its peculiar difficulties, and possible awkwardness, but could think of no (5) _____ which would serve as well in the given case: and though I am far from thinking 'Ethan Frome' is my best novel, and am bored and even exasperated when I am told that it is, I am still sure that its structure is not its weak point.

SubQuestion No : 22

Q.22 Select the most appropriate option to fill in blank no. 2.

Ans
- ✗ 1. no sooner
- ✗ 2. barely
- ✓ 3. much
- ✗ 4. so

Question ID : **264330139214**
Status : **Answered**
Chosen Option : **3**

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
I went on (1) _____ trying to 'find out how to'; but I wrote two or three novels without feeling that I had made (2) _____ progress. It was not until I wrote 'Ethan Frome' that I suddenly felt the artisan's full (3) _____ of his implements. When 'Ethan Frome' first appeared, I was (4) _____ criticised by the reviewers for what was considered the clumsy structure of the tale. I had pondered long on this structure, had felt its peculiar difficulties, and possible awkwardness, but could think of no (5) _____ which would serve as well in the given case: and though I am far from thinking 'Ethan Frome' is my best novel, and am bored and even exasperated when I am told that it is, I am still sure that its structure is not its weak point.

SubQuestion No : 23

Q.23 Select the most appropriate option to fill in blank no. 3.

Ans
- ✗ 1. dissent
- ✗ 2. stability
- ✗ 3. rigidity
- ✓ 4. control

Question ID : **264330139215**
Status : **Answered**
Chosen Option : **1**

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
I went on (1) _____ trying to 'find out how to'; but I wrote two or three novels without feeling that I had made (2) _____ progress. It was not until I wrote 'Ethan Frome' that I suddenly felt the artisan's full (3) _____ of his implements. When 'Ethan Frome' first appeared, I was (4) _____ criticised by the reviewers for what was considered the clumsy structure of the tale. I had pondered long on this structure, had felt its peculiar difficulties, and possible awkwardness, but could think of no (5) _____ which would serve as well in the given case: and though I am far from thinking 'Ethan Frome' is my best novel, and am bored and even exasperated when I am told that it is, I am still sure that its structure is not its weak point.

SubQuestion No : 24

Q.24 Select the most appropriate option to fill in blank no. 4.

Ans

✗ 1. selectively

✓ 2. severely

✗ 3. intelligibly

✗ 4. legibly

Question ID : **264330139216**
Status : **Answered**
Chosen Option : **2**

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
I went on (1) _____ trying to 'find out how to'; but I wrote two or three novels without feeling that I had made (2) _____ progress. It was not until I wrote 'Ethan Frome' that I suddenly felt the artisan's full (3) _____ of his implements. When 'Ethan Frome' first appeared, I was (4) _____ criticised by the reviewers for what was considered the clumsy structure of the tale. I had pondered long on this structure, had felt its peculiar difficulties, and possible awkwardness, but could think of no (5) _____ which would serve as well in the given case: and though I am far from thinking 'Ethan Frome' is my best novel, and am bored and even exasperated when I am told that it is, I am still sure that its structure is not its weak point.

SubQuestion No : 25

Q.25 Select the most appropriate option to fill in blank no. 5.

Ans

✗ 1. adjudication

✗ 2. adulteration

✗ 3. alternate

✓ 4. alternative

Question ID : **264330139217**
Status : **Answered**
Chosen Option : **4**