

Combined Graduate Level Examination 2024 Tier I

Exam Date	23/09/2024
Exam Time	9:00 AM - 10:00 AM
Subject	Combined Graduate Level Examination Tier I

Section: General Intelligence and Reasoning

Q.1 Three of the following numbers are alike in a certain way and one is different. Pick the odd one out.

(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 X 1. 15 – 3 – 108

X 2. 18 - 11 - 63

 \times 3. 12 - 8 - 36

✓ 4. 21 − 14 − 72

Q.2 Which of the following terms will replace the question mark (?) in the given series? JHOQ, NFSO, ?, VBAK, ZZEI

Ans X 1. RCWM

X 2. RDMW

X 3. RCXM

4. RDWM

Q.3 In a certain code language, 'RADIO' is written as 'SZEHP' and 'FREQUENCY' is written as 'GQFPVDOBZ'. How will 'TELEVISION' be written in that language?

Ans X 1. UDMDWHTHOM

2. UDMDWHTHPM

X 3. UDMDWHTHPN

X 4. UDMDWHHTPM

Q.4 The position of how many letters will remain unchanged if all the letters in the word MOBILE are arranged in English alphabetical order?

Ans

X 1. One

2. None

X 3. Three

X 4. Two

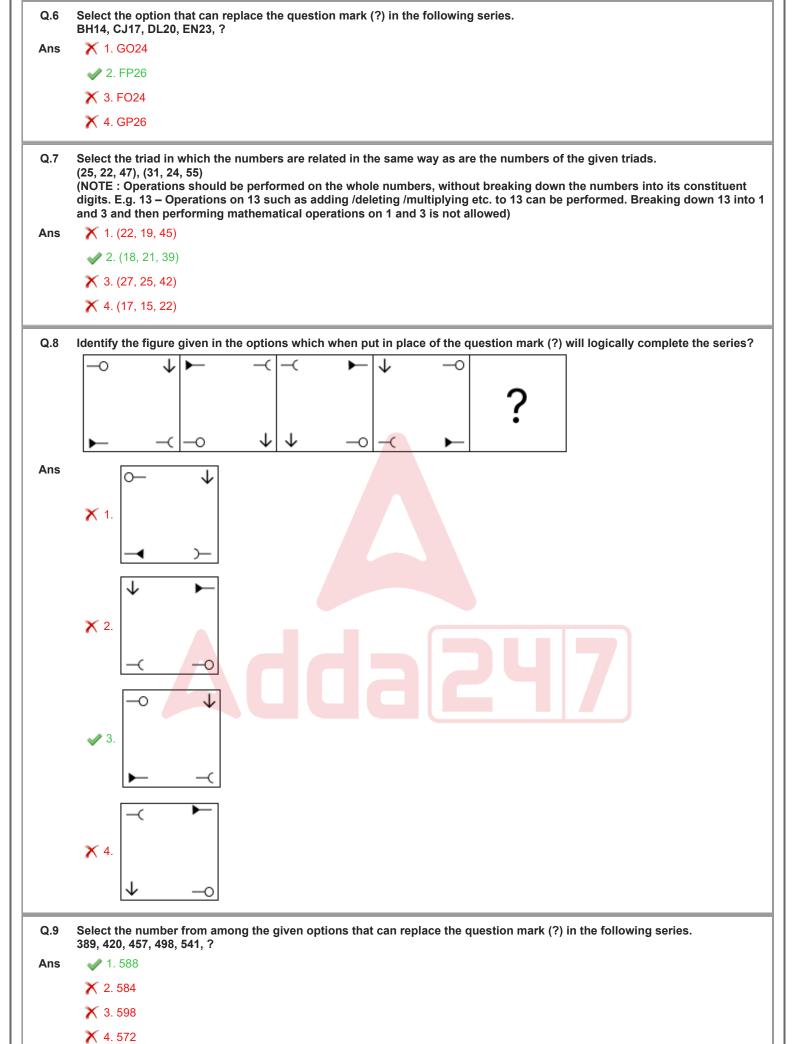
Q.5 12 is related to 235 by certain logic. Following the same logic, 14 is related to 287. To which of the following is 18 related, following the same logic? (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations 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.)

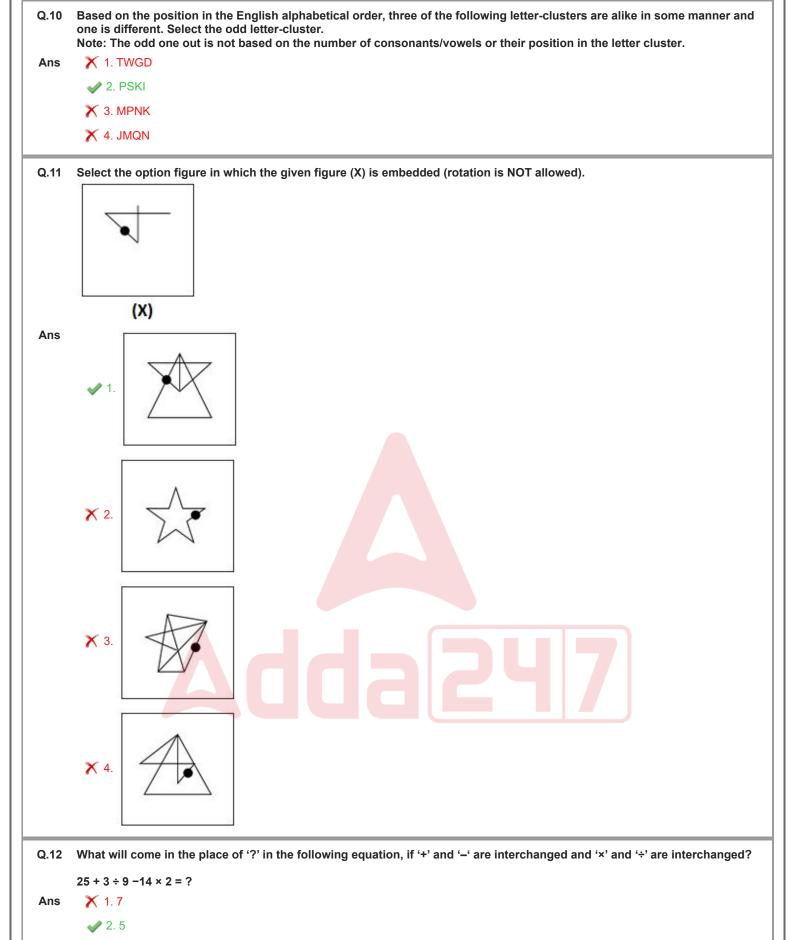
Ans X 1. 512

X 2. 320

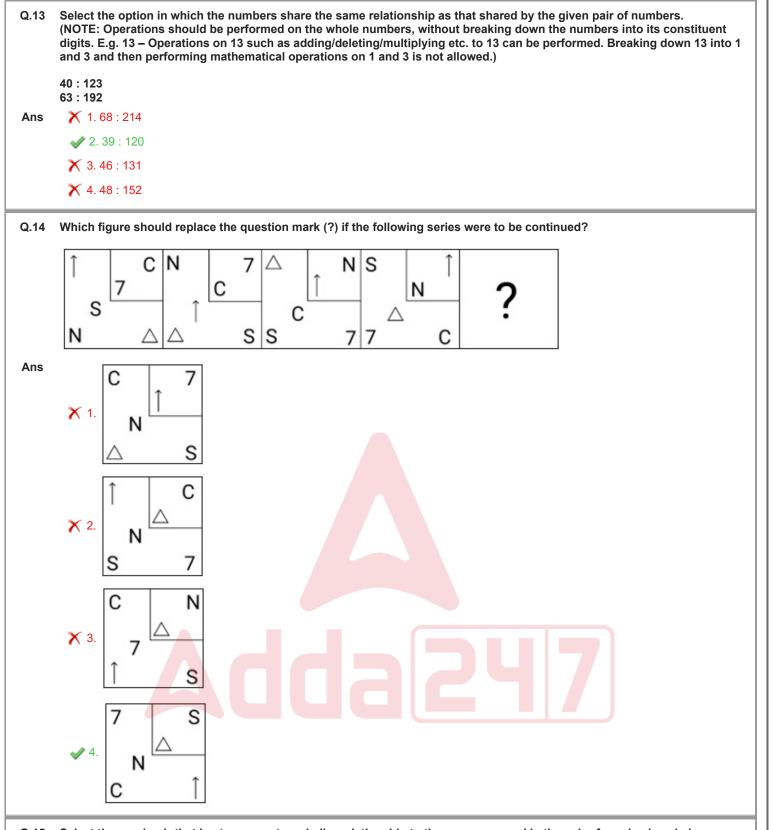
3. 415

X 4. 438





X 3. 12 **X** 4. 0



Q.15 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)

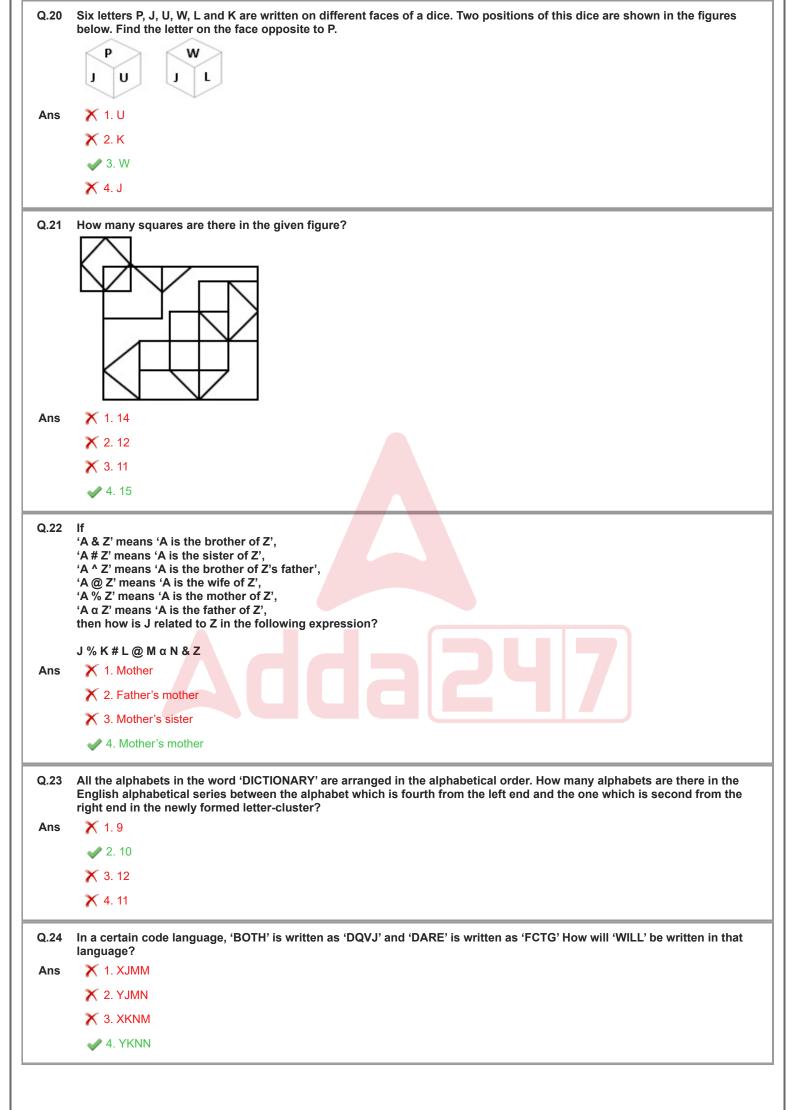
France: Gallic Rooster

Ans X 1. New Zealand : Hornbill

> 💢 2. Germany : Swan 3. Australia : Emu

X 4. India : Eagle

	Select the number that will come in the place of the question mark(?), if '+' and ' – ' are interchanged and 'x' and '÷' are interchanged 63 × 7 ÷ 13 – 64 + 42 = ?
Ans	★ 1. 144
	★ 2. 131
	✓ 3. 139
	★ 4. 124
Q.17	Find the correct combination of letters that when sequentially filled in the blanks of the given series will make the series logically complete. ABF_HI_NOP_U_WABCDH_
Ans	★ 1. GMTUI
	X 2. IMTVI
	X 3. GMSVI
	✓ 4. GMTVI
Q.18	Three different positions of the same dice are given. Find the number on the face opposite to the face showing '2'.
	3 3 2
	5 4 4 6 1 6
Ans	✓ 1. 3
	★ 2.4
	X 3. 1
	★ 4. 6
Q.19	A transparent sheet with a pattern is given below. Select the option that depicts the pattern that would appear when the
	given transparent sheet is folded at the middle horizontal line.
	given transparent sheet is folded at the middle horizontal line.
Δne	
Ans	
Ans	
Ans	Adda 247
Ans	Adda 247
Ans	dda 247
Ans	Adda 247
Ans	dda 247
Ans	dda 247
Ans	X1. X2.
Ans	dda 247
Ans	X1. X2.
Ans	X1. X2.
Ans	X 2. X 3. X 3.
Ans	X1. X2.



Q.25	Select the option that represents the letters that, when placed from left to right in the blanks below, will complete the letter series.
	S_YA_FIKM_SUW
Ans	✓ 1. VCP
	X 2. VBP
	X 3. VCQ
	X 4. UCP
Section	: General Awareness
Q.1	The National Youth Policy was launched in:
Ans	★ 1. 2012
	★ 2. 2013
	✓ 3. 2014
	★ 4. 2015
0.0	Which arrang the following was NOT a part of the those costions of the Dispudie tribe?
Q.2 Ans	Which among the following was NOT a part of the three sections of the Rigvedic tribe? ✓ 1. Craftsman
	× 2. Priests
	★ 3. Ordinary people
	X 4. Warriors
	A. Wallois
Q.3	Who holds the record for the longest long jump in India as of 2023?
Ans	✓ 1. Jeswin aldrin
	× 2. TC Yohannan
	X 3. Murali S
	★ 4. Nayana James
Q.4	Which part of the Constitution deals with the Panchayats?
Ans	★ 1. Part IV
	✓ 2. Part IX
	X 3. Part VII
	🗙 4. Part X
Q.5 Ans	Which of the following battles was fought between Babur and Rana Sanga in 1527? 1. Battle of Bayana
	✓ 2. Battle of Khanwa
	★ 3. Second battle of Panipat
	X 4. Battle of Chanderi
	•
Q.6	Who among the following was the President of the Belgaum Session of the Indian National Congress held in 1924?
Ans	✓ 1. Mahatma Gandhi
	× 2. Vallabhbhai Patel
	X 3. Subhas Chandra Bose
	X 4. Jawaharlal Nehru
Q.7	'Atla Taddi' is the widely celebrated festival of which Indian state?
Ans	★ 1. West Bengal
	× 2. Punjab
	X 3. Bihar
	✓ 4. Andhra Pradesh

Ans	where was the 11 world Cup of Kabaddi organised in 2004? ✓ 1. Mumbai
Alla	
	X 2. Hyderabad
	X 3. Punjab
	X 4. Kolkata
Q.9	In which of the following states of India is Hojagiri dance predominantly performed?
Ans	✓ 1. Tripura
	🔀 2. Kerala
	X 3. Himachal Pradesh
	🔀 4. Maharashtra
Q.10 Ans	Which of the following is related to neem? 1. Tendril
Alla	× 2. Palmately
	✓ 3. Pinnately
	X 4. Spines
Q.11	What is the position of India in the world's telecommunication market, as of March 2024?
Ans	X 1. Fourth
	🗶 2. Third
	★ 3. First
	✓ 4. Second
Q.12	Which national park in the Andaman and Nicobar Islands is home to species like Megapode, crab-eating Macaque, Nicobar
Q. 12	Pigeon, and Giant Robber Crab?
Ans	★ 1. Raimona National Park
	✓ 2. Campbell Bay National Park
	X 3. Mouling National Park
	🗙 4. Papikonda National Park
Q.13	A chemical reaction in which the rate of reaction is directly proportional to the first power of the concentration of the reacting substance is called:
Ans	★ 1. zero order reaction
	× 2. third order reaction
	X 3. second order reaction
	✓ 4. first order reaction
Q.14	For which film did Ache Phoole win the Internetional Indian Film Academy (IIFA) Award in the Boot Black act Communication
Q.14	For which film did Asha Bhosle win the International Indian Film Academy (IIFA) Award in the Best Playback Singer Female category in 2002?
Ans	★ 1. Devdas
	× 2. Humraz
	🗙 3. Om Jai Jagdish
	√ 4. Lagaan
Q.15	The government of which of the following states allocated ₹11,728 crore for the Aasara pension scheme in its annual budget for the fiscal year 2022-23?
Ans	✓ 1. Telangana
	🔀 2. Odisha
	🔀 3. Gujarat
	🗙 4. Chhattisgarh

Q.16	The Permanent Settlement came into operation in which of the following years?
Ans	X 1. 1890
	★ 2. 1790
	X 3. 1789
	✓ 4. 1793
Q.17	Consider the following statements related to the Online Dispute Resolution (ODR) handbook. 1.It will be launched by the Ministry of Science and Technology. 2.ODR is the resolution for cases outside courts using digital technology and techniques of Alternative Dispute Resolution (ADR), such as negotiation, mediation and arbitration. 3.The development of ICT and increased use of internet has played a major role for ODR. Which of the given statements is/are correct?
Ans	X 1. Only 1 and 3
	✓ 2. Only 2 and 3
	X 3. Only 1
	★ 4. Only 2
Q.18	Which of the following is mentioned in Article 1 of the Indian constitution?
Ans	★ 1. India that is Bharat as federation of states
	X 2. India that is Bharat as parliamentary democracy
	X 4. India that is Bharat as presidential form of democracy
Q.19	The Flexible Inflation Targeting Framework (FITF) was introduced in India post the amendment of the Reserve Bank of India (RBI) Act, 1934 in
Ans	★ 1. 2014
	★ 2. 2010
	✓ 3. 2016
	X 4. 2020
0.00	What is the direction of account to be USO
Q.20 Ans	What is the duration of monsoon in India? ✓ 1. 100-120 days ✓ 2. 40-60 days ✓ 3. 150-200 days ✓ 4. 50-80 days
Q.21	Articles 52 to 78 in Part V of the Indian Constitution deal with
Ans	X 1. Finance Commission of India
	✓ 2. Union Executive
	★ 3. Amendment of the Constitution
	★ 4. National emergency
Q.22	Ali Akbar Khan is known for playing the
Ans	★ 1. Ektara
	🗶 2. Sarangi
	X 3. Tanpura
	✓ 4. Sarod

	✓ 4. The Godavari
Q.24	Name the phenomenon where an opaque object on the path of light becomes very small and where light has a tendency to bend around it and not walk in a straight line.
Ans	★ 1. Reflection of light
	✓ 2. Diffraction of light
	★ 3. Angle of refraction
	X 4. Angle of incidence
Q.25	Which of the following statements is/are correct? i. The first green revolution led to over-exploitation of natural resources. ii. The second Green Revolution was more focused on Southern India. iii. The second green revolution ensured in achieving sustainable livelihood security.
Ans	✓ 1. i and iii
	🔀 2. Only ii
	X 3. ii and iii
	★ 4. i and ii
Section	: Quantitative Aptitude
Q.1	Simplify $6 \times [28 \div 84 \times \{36 \times 49 \div (6 \times 7)\}].$
Ans	✓ 1.84
	★ 2.74
	★ 3.64
	★ 4.94
Q.2	The value of θ , when $\sqrt{3}\cos\theta+\sin\theta=1$ (1 $\leq~\theta\leq90^{\circ}$), is:
Ans	★ 1.20°
	× 2.60°
	✓ 3. 90°

The northern plain of the Indian subcontinent has been formed by the interplay of the three major river systems along with their tributaries. Choose the odd one out of the options given.

Q.23

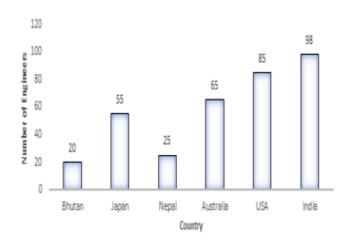
Ans

X 1. The Brahmaputra

2. The Indus3. The Ganga

X 4. 30°

Q.3 Study the given bar-graph and answer the question that follows.



What is the ratio of the number of engineers of countries with an above average to the number of engineers of countries with a below average?

Ans

✓ 1.
$$\frac{1}{1}$$

× 2.
$$\frac{39}{71}$$

× 3.
$$\frac{2}{1}$$

$$\times$$
 4. $\frac{62}{25}$

Q.4 Find the length of the longest stick that can be fitted in a cubical vessel of edge 70 cm.

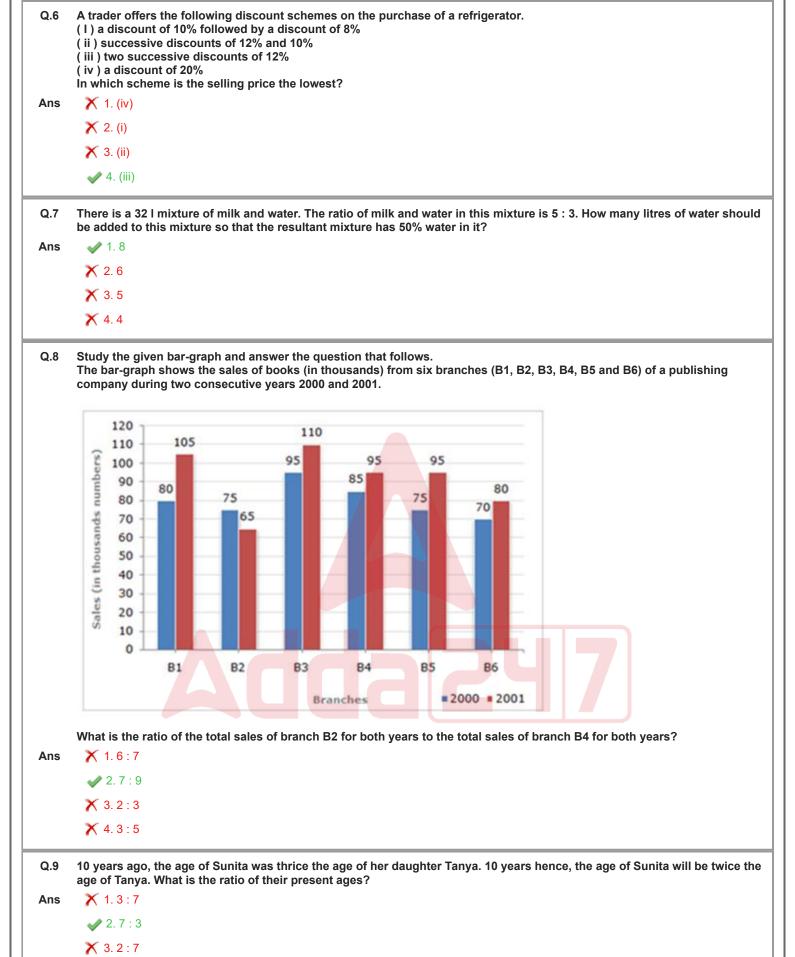
Ans

× 3.
$$10\sqrt{3}$$
 cm

$$\times$$
 4. $70\sqrt{2}$ cm

Q.5 For what least value of n, 2²ⁿ+2n is completely divided by 6, where n is an integer?

Ans



2. {8, 15, 16}

X 4.7:2

X 3. {5, 10, 12}

4. {5, 12, 13}

I	Q.11	R targets to score 85% marks in exams. He scores 450 marks and misses the target by 35%. How much increment in
ı		percentage should be there in his scored marks to meet the target?

Ans

// 1. 70

X 2. 35

X 3.53

X 4.45

Q.12 Study the given table and answer the question that follows.

The following table shows the production of printers by four plants of a company over the five years.

Year	Production (in thousands)			
	Plant 1	Plant 2	Plant 3	Plant 4
2018	35	25	40	45
2019	43	44	44	40
2020	48	39	36	30
2021	32	40	35	48
2022	42	44	30	42

What is the difference between the average production of plant 1 and plant 2 during five years?

Ans

1. 1600

X 2. 3000

X 3. 3840

X 4. 1400

Q.13 A tank can be filled by pipe A in 4 hours and pipe B in 6 hours. At 8:00 a.m., pipe A was opened. At what time will the tank be filled if pipe B is opened at 9:00 a.m.?

Ans

X 1. 10:16 a.m.

X 2. 10:22 a.m.

X 4. 10:18 a.m.



Ans

X 1. r² cos (u)

√ 2. r²

X 3. 2r

X 4. r² sin (t)

Q.15 30 is the mean proportional of 18 and A. Find the value of A.

Ans

X 1.60

X 2.40

X 3. 45

4. 50

$$\frac{(232)^3+(140)^3+(353)^3-3\times232\times140\times353}{(232)^2+(140)^2+(353)^2-232\times140-140\times353-353\times232}$$

Ans

2. 725

X 3.445

X 4. 596

Q.17 A thief is noticed by a policeman from a distance of 92 m. The thief starts running and the policeman chases him. The thief and the policeman run at the speed of 90 km/h and 104.4 km/h, respectively. In how much time will the policeman catch the thief?

Ans

X 1. 21 seconds

X 2. 26 seconds

3. 23 seconds

X 4. 22 seconds

Q.18 Aman has certain number of notes of denomination ₹20 and ₹10 which amount to ₹390. If the numbers of notes of each kind are interchanged, then the new amount is ₹90 less than before. Find the number of notes of ₹20 denomination.

Ans

1.16

X 2. 12

X 3. 15

X 4. 14

Q.19 The difference between the simple interests on the principal of ₹500 at an interest rate of 5% per annum for 3 years and 4% per annum for 4 years is:

Ans

X 1. ₹7.5

√ 2. ₹5

X 3. ₹15

X 4. ₹10

If $4\tan\theta - 3 = 0$, then the value of $\frac{1 - \cos 2\theta}{1 + \cos 2\theta}$ is

Ans

X 1.1

 \times 2. $\frac{7}{15}$

 \times 3. $\frac{4}{3}$

√ 4. $\frac{9}{16}$

For two circles of radius 7 units and $\frac{7}{2}$ units, whose centres are 15 units apart, what is the length of the direct common tangent in units? (Correct to 3 decimal places.)

Ans

1. 14.586

X 2. 18.654

X 3. 15.486

X 4. 16.584

Q.22	A triangle ABC is made on a circ ∠BAC, then x is :	le, where AB is diameter	of the circle. If BC is eq	ual to the radius of the cir	cle and ∠ABC = x

Ans

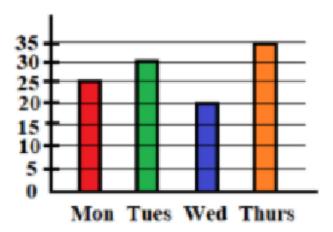
X 1. 2.5

2. 2

X 3. 1

X 4. 1.5

Q.23 The bar graph shows the number of students present in a class on four days. The average number of students present on Monday, Tuesday and Wednesday is:



Ans X 1. 24

X 2. 20

X 3.30

4. 25

Q.24 Which of the following are the angles of a scalene triangle?

Ans

√ 1. 60°, 30° and 90°

× 2. 60°, 60° and 60°

× 3. 110°, 35° and 35°

X 4. 90°, 45° and 45°

Q.25 Amit and Bilal buy goods for ₹1,500 and ₹2,000, respectively. Amit marks his goods up by y%, while Bilal marks his goods up by 2y% and offers a discount of y%. If both make the same profit, then find the value of y.

Ans

X 1. 10.5

X 2. 12

X 3. 11.5

4. 12.5

Section: English Comprehension

Q.1 Select the option that can be used as a one-word substitute for the given group of words. Speaking disrespectfully about sacred or religious things.

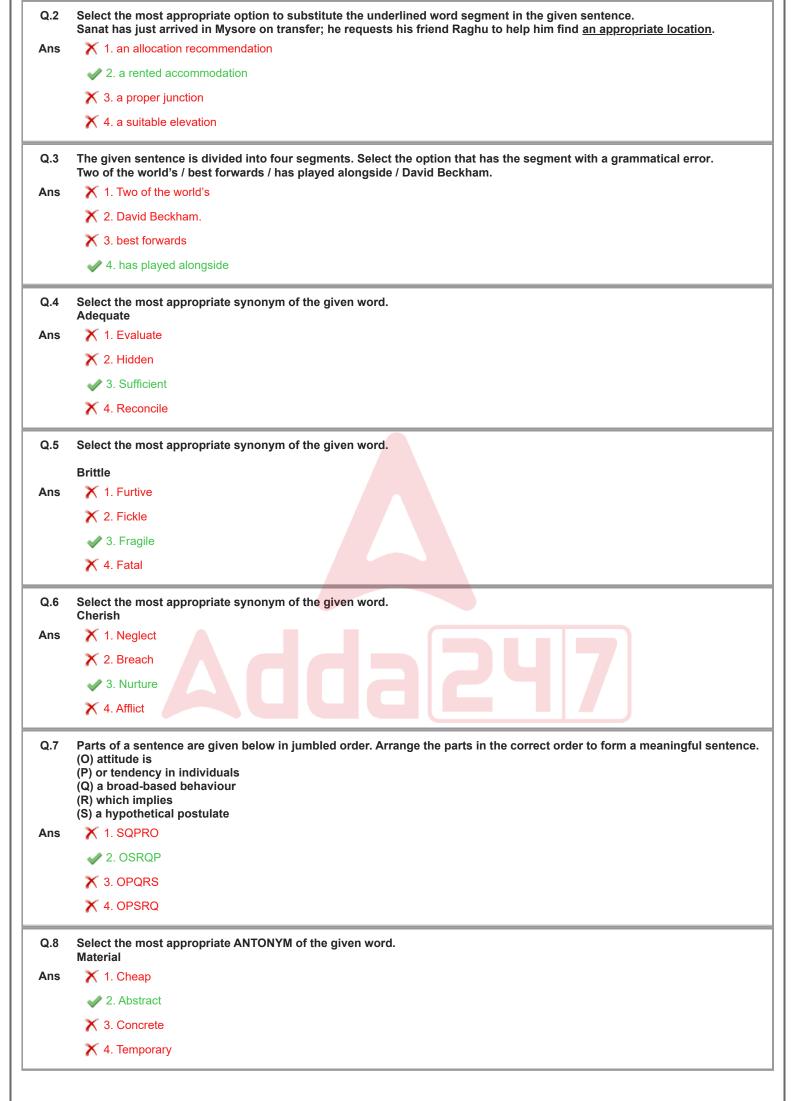
Ans

1. Blasphemy

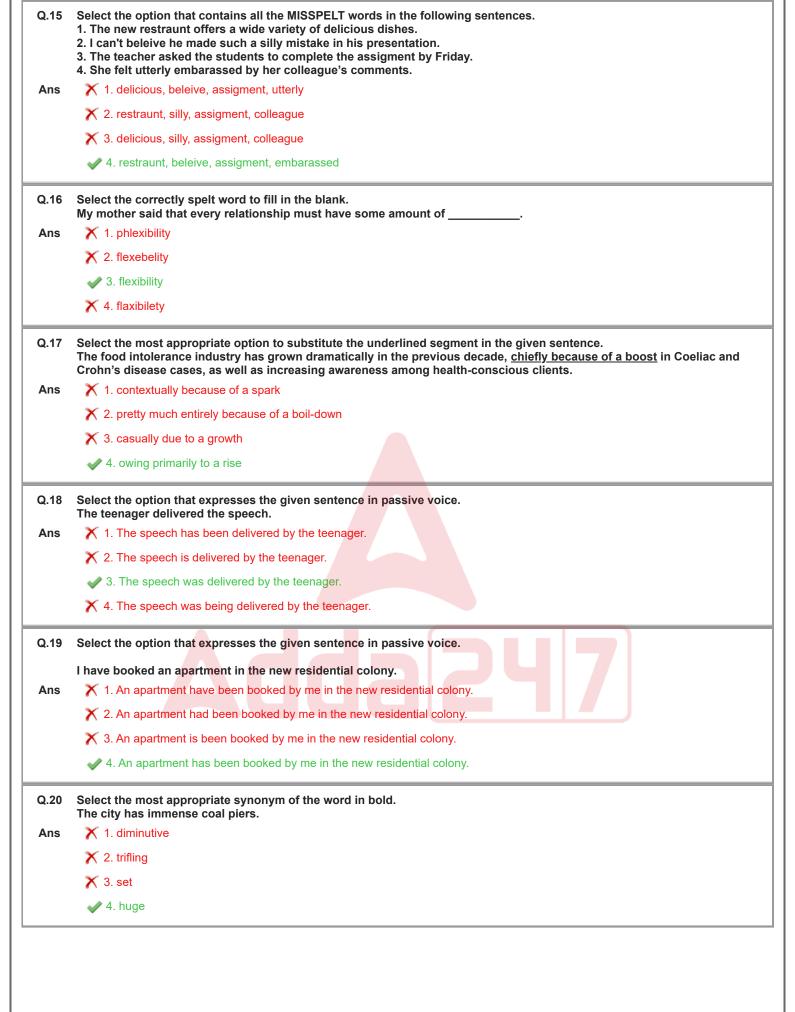
X 2. Mystic

X 3. Atheist

X 4. Theist



Q.9	Select the most appropriate homonyms from the given alternatives to fill in the blanks.
	The rowing instructor commanded them to in a
	A.row (verb) B.roe
	C.row (sequence)
Ans	★ 1. C, A
	X 2. B, C
	★ 3. A, B
	✓ 4. A, C
Q.10	Select the most appropriate meaning of the given idiom. At a low ebb
Ans	✓ 1. In a depressed or weak state
	X 2. In a happy state
	X 3. In a critical moment
	X 4. In an unemployed mode
	A . III all unemployed mode
Q.11	Identify the error in the following sentence. Ourselves should not boast of one's knowledge.
Ans	X 1. one's
	X 2. boast
	✓ 3. Ourselves
	X 4. knowledge
Q.12	Select the most appropriate option that can substitute the underlined segment in the given sentence.
Ans	This book giving us much information about our freedom fighters who lost their lives while serving our motherland. 1. gives us many information
Allo	X 2. give us many information
	X 3. give us much information
	✓ 4. gives us much information
Q.13	Select the most appr <mark>opri</mark> ate meaning <mark>of</mark> the give <mark>n i</mark> diom. Off and on
Ans	✓ 1. Now and then
	× 2. Know something thoroughly
	X 3. Remind
	X 4. Object to
Q.14	Given below are four jumbled sentences. Select the option that gives their correct logical sequence.
	A. These are responsible for producing the major fuel used across the globe.
	B. The country has 100 major oil and gas fields.
	C. The economy of Saudi Arabia is based on petroleum. D. The chief oil field is Ghawar Field having an estimated 70 billion reserve resource.
Ans	X 1. DCAB
	★ 2. ABCD
	✓ 3. CBAD
	X 4. BACD
	•



	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.
	Culture is (1), understanding, and protecting, like the cultivation of a garden, not the destruction or eradication of its roots. Understanding the roots and seeds, taking much care and providing instructed nourishment (2) important for good gardening. Culture also is similar; understanding its acquaintance (3) literature and art and careful protection are required. Culture is the way of life of a particular society in which a group of people live together in one place. The society's culture is visible in its literature, arts, social system, language and religion. It is a combination of traditions, customs, institutions, food habits, manners, morals, thoughts, tastes, views and beliefs. Usually, families (4) culture to the younger generations. As family system is becoming weak, schools, colleges and universities should take up this responsibility as education should promote potential values of its culture. The role of universities (5) only to issue course completed certificates.
	SubQuestion No : 21
Q.21	Select the most appropriate option to fill in blank number 1.
Ans	X 1. creation
	X 2. to create
	★ 3. create
	✓ 4. creating
	One manufacture in the control of th
	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.
	Culture is (1), understanding, and protecting, like the cultivation of a garden, not the destruction or eradication of its roots. Understanding the roots and seeds, taking much care and providing instructed nourishment (2) important for good gardening. Culture also is similar; understanding its acquaintance (3) literature and art and careful protection are required. Culture is the way of life of a particular society in which a group of people live together in one place. The society's culture is visible in its literature, arts, social system, language and religion. It is a combination of traditions, customs, institutions, food habits, manners, morals, thoughts, tastes, views and beliefs. Usually, families (4) culture to the younger generations. As family system is becoming weak, schools, colleges and universities should take up this responsibility as education should promote potential values of its culture. The role of universities (5) only to issue course completed certificates.
Q.22	SubQuestion No : 22 Select the most appropriate option to fill in blank number 2.
Ans	X 1. is
	X 2. were
	★ 3. was
	✓ 4. are
	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. Culture is (1), understanding, and protecting, like the cultivation of a garden, not the destruction or eradication of its roots. Understanding the roots and seeds, taking much care and providing instructed nourishment (2) important for good gardening. Culture also is similar; understanding its acquaintance (3) literature and art and careful protection are required. Culture is the way of life of a particular society in which a group of people live together in one place. The society's culture is visible in its literature, arts, social system, language and religion. It is a combination of traditions, customs, institutions, food habits, manners, morals, thoughts, tastes, views and beliefs. Usually, families (4) culture to the younger generations. As family system is becoming weak, schools, colleges and universities should take up this responsibility as education should promote potential values of its culture. The role of universities (5) only to issue course completed certificates. SubQuestion No: 23
Q.23	Select the most appropriate option to fill in blank number 3.
Ans	★ 1. for
	X 2. on
	✓ 3. with
	X 4. in

	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. Culture is (1), understanding, and protecting, like the cultivation of a garden, not the destruction or eradication of its roots. Understanding the roots and seeds, taking much care and providing instructed nourishment (2) important for good gardening. Culture also is similar; understanding its acquaintance (3) literature and art and careful protection are required. Culture is the way of life of a particular society in which a group of people live together in one place. The society's culture is visible in its literature, arts, social system, language and religion. It is a combination of traditions, customs, institutions, food habits, manners, morals, thoughts, tastes, views and beliefs. Usually, families (4) culture to the younger generations. As family system is becoming
	weak, schools, colleges and universities should take up this responsibility as education should promote potential values of its culture. The role of universities (5) only to issue course completed certificates.
	SubQuestion No : 24
Q.24	Select the most appropriate option to fill in blank number 4.
Ans	X 1. transmitting
	× 2. transmitted
	✓ 3. transmit
	X 4. transmits
	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. Culture is (1), understanding, and protecting, like the cultivation of a garden, not the destruction or eradication of its roots. Understanding the roots and seeds, taking much care and providing instructed nourishment (2) important for good gardening. Culture also is similar; understanding its acquaintance (3) literature and art and careful protection are required. Culture is the way of life of a particular society in which a group of people live together in one place. The society's culture is visible in its literature, arts, social system, language and religion. It is a combination of traditions, customs, institutions, food habits, manners, morals, thoughts, tastes, views and beliefs. Usually, families (4) culture to the younger generations. As family system is becoming weak, schools, colleges and universities should take up this responsibility as education should promote potential values of its culture. The role of universities (5) only to issue course completed certificates.
	SubQuestion No : 25
Q.25	Select the most appropriate option to fill in blank number 5.
Ans	★ 1. should be restricted
	× 2. restrict
	★ 3. should restricted
	✓ 4. should not be restricted