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**Memory Based Paper
25 May, 2025 Shift 3**



100 Questions

Que. 1 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.

After the match, / the stadium was the messiest / it's ever been.

1. No Error
2. It's ever been
3. After the match
4. the stadium was the messiest

Correct Option - 1

Que. 2 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The soldiers / sacrifice their lives / to guarding / the nation and its boundaries.

1. The soldiers
2. the nation and its boundaries
3. to guarding
4. sacrifice their lives

Correct Option - 3

Que. 3 The given sentence is divided into three segments. Select the option that has the segment with a grammatical error. If there is no error, select "No error".

She learnt / how to play a piano / when she was in Class 6th.

1. when she was in Class 6th.
2. No error
3. She learnt
4. how to play a piano

Correct Option - 4

Que. 4 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

She is learning / to play the guitar / to pursue her passion / for the music.

1. for the music.
2. to play the guitar
3. to pursue her passion
4. She is learning

Correct Option - 1

Que. 5 Read the following paragraph and answer the questions

A well-dressed young man entered a big textile shop one evening. He was able to draw the attention of the salesmen who thought him rich and likely to make heavy purchases. He was shown the superior varieties of suit lengths and sarees. But after casually examining them, he kept moving to the next section where readymade goods were being sold and further on to the hosiery section. By then, the salesmen had begun to doubt his intentions and drew the attention of the manager. The manager asked him what exactly he wanted and he replied that he wanted courteous treatment. He explained that he had come to the same shop in casual dress that morning and drawn little attention. His pride was hurt and he wanted to assent himself. He had come in good dress only to get decent treatment, not for getting any textiles. He left without making any purchase.

The young man was well dressed because

1. it was his habit to dress well
2. it was his wedding day
3. he wanted to meet the manager of the shop
4. he wanted to impress the salesmen

Correct Option - 4

Que. 6 The salesmen in the shop are described as people who pay attention to

1. only young men and women
2. pretty women
3. only rich customers
4. regular customers

Correct Option - 3

Que. 7 The Young man left without making purchases because he

1. did not have money
2. could not find any item of his choice
3. had come only to make a point about the indifferent attitude of the salesmen towards casually dressed customers
4. decided to come to make the purchases later on

Correct Option - 3

Que. 8 The manager asked the young man what he wanted because

1. He would give him exactly what he was looking for
2. The salesman had drawn his attention to the indifferent attitude of the young man
3. He thought they could do more business with him that way
4. He thought the visitor was dissatisfied

Correct Option - 2

Que. 9 Select the most appropriate synonym of the given

Exemplary

1. Bad
2. Ordinary
3. Excellent
4. Average

Correct Option - 3

Que. 10 Select the most appropriate synonym of the given word.

Fatigued

1. Tired
2. Furious
3. Tricky
4. Famous

Correct Option - 1

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

Proficient

1. Glamorous
2. Accomplished
3. Callous
4. Recalcitrant

Correct Option - 2

Que. 12 Select the most appropriate ANTONYM of the given word.

Excessive

1. Moderate
2. Flow
3. Inordinate
4. Desirable

Correct Option - 1

Que. 13 Select the most appropriate adjective to fill in the blank.

According to the chairman, his proposal was _____ than Mr. Jackson's.

1. worse
2. worst
3. bad
4. ill

Correct Option - 1

Que. 14 Select the most appropriate option to fill in the blank.

Please turn off the lights _____ leaving the house.

1. before
2. between
3. during
4. amid

Correct Option - 1

Que. 15 Select the most appropriate option to fill in the blank.

I will not be able to _____ my assignment in time.

1. complete
2. completes
3. completed
4. completing

Correct Option - 1

Que. 16 Select the most appropriate adjective to fill in the blank.

She always wears dresses of _____ fashion.

1. late
2. the latter
3. latest
4. the latest

Correct Option - 4

Que. 17 **Directions :** This question consists of a sentence, parts of which have been jumbled. These parts have been labelled as P, Q, R and S. Given below the sentence are four sequences, namely (a), (b), (c) and (d). You are required to re-arrange the jumbled parts of the sentence and mark your response accordingly.

historians consider India's(P)/ begun sometime between(Q)/ modern age to have(R)/ 1848 and 1885(S)

1. PQRS
2. SRPQ

3. PRQS
4. SRQP

Correct Option - 3

Que. 18 **Directions** : This question consists of a sentence, parts of which have been jumbled. These parts have been labelled as P, Q, R and S. Given below each sentence are four sequences, namely (a), (b), (c) and (d). You are required to re-arrange the jumbled parts of the sentence and mark your response accordingly.

were able to seek and(P)/ control their own affairs(Q)/ many among these elites(R)/as the empire disintegrated, (S)

1. PQRS
2. SRPQ
3. PRQS
4. SRQP

Correct Option - 2

Que. 19 **Directions** : This question consists of a sentence, parts of which have been jumbled. These parts have been labelled as P, Q, R and S. Given below each sentence are four sequences, namely (a), (b), (c) and (d). You are required to re-arrange the jumbled parts of the sentence and mark your response accordingly.

no ruler of this period(P)/ was able to create an empire(Q)/ and consistently control lands(R)/ much beyond their core region.(S)

1. PQRS
2. SRPQ
3. PRQS
4. SRQP

Correct Option - 1

Que. 20 Select the option that can be used as a one-word substitute for the given group of words.
Loud enough to be heard.

1. Audible
2. Audit
3. Audacious
4. Audacity

Correct Option - 1

Que. 21 Select the option that can be used as a one-word substitute for the given group of words.
Money collected from people for a cause.

1. Collection
2. Deposit
3. Fund

4. Savings

Correct Option - 3

Que. 22 Select the option that can be used as a one-word substitute for the given group of words.
One who looks at the bright side of things/situations

1. Saint
2. Optimist
3. Pessimist
4. Scientist

Correct Option - 2

Que. 23 Select the option that expresses the given sentence in passive voice.
She is doing the homework.

1. The homework was being done by her.
2. The homework has been done by her.
3. The homework was done by her.
4. The homework is being done by her.

Correct Option - 4

Que. 24 Select the option that expresses the given sentence in passive form.
Who took Bruno for a walk?

1. By whom has Bruno been taken for a walk?
2. With whom Bruno is taken for a walk?
3. By whom was Bruno taken for a walk?
4. By whom will Bruno be taken for a walk?

Correct Option - 3

Que. 25 Select the option that expresses the given sentence in indirect speech.
He told me, "I will call you later."

1. He told me that he would call me later.
2. He told me I would call me later.
3. He told he can call me later.
4. He told you call me later.

Correct Option - 1

Que. 26 What is the symbol of Barium element?

1. Ba
2. B
3. Br
4. Ca

Correct Option - 1

Que. 27 Which is necessary for the utilisation and retention of calcium and phosphorus ?

1. Vitamin 'A'
2. Vitamin 'C'
3. Vitamin 'D'
4. Vitamin 'K'

Correct Option - 3

Que. 28 We receive Vitamin D from _____.

1. Sun light
2. X-Ray
3. Moon light
4. Infrared light

Correct Option - 1

Que. 29 Which is the vaccine for diphtheria?

1. DTap
2. HepA
3. MMR
4. Var

Correct Option - 1

Que. 30 Sound waves are:

1. Electromagnetic waves
2. Transverse waves
3. Mechanical waves
4. All of the above

Correct Option - 3

Que. 31 What will be the effective weight of coin placed on an elevator floor which it was falling freely under gravity, if mass of coin is m and g is acceleration due to gravity and a is acceleration of falling lift?

1. mg

2. $mg - ma$
3. $mg + ma$
4. zero

Correct Option - 4

Que. 32 If kinetic energy is doubled, find fractional change in momentum

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

Correct Option - 1

Que. 33 A train A travels from west to east at 60 km/h, another train B travels from east to west at 50 km/h. The relative velocity of B with respect of A is _____.

1. 10 km/h
2. -10 km/h
3. -110 km/h
4. 110 km/h

Correct Option - 4

Que. 34 Which color of the light has the longest wavelength?

1. Red
2. Blue
3. Green
4. Violet

Correct Option - 1

Que. 35 A body of mass 10 kg is resting on a rough horizontal surface of coefficient of friction 0.3. When 15 N force is applied horizontally on the body, then the friction force developed between the surface and the body will be: (Take $g = 9.8 \text{ m/s}^2$)

1. 29.4 N
2. 15 N
3. 3 N
4. 4.5 N

Correct Option - 2

Que. 36 The sensitivity of a potentiometer can be increased by-

1. decreasing the thickness of the potentiometer wire
2. increasing the length of the potentiometer wire
3. increasing the temperature of the surrounding
4. all of the above

Correct Option - 2

Que. 37 1 eV is equivalent to:

1. 10 erg
2. 1.1×10^{-11} erg
3. 1.6×10^{-38} erg
4. 1.6×10^{-19} Joule

Correct Option - 4

Que. 38 The number of Degree of freedom for a diatomic molecule is _____. (Assume molecules are rigid)

1. 2
2. 3
3. 5
4. 6

Correct Option - 3

Que. 39 A boy is rolling a 0.5 kg ball on the frictionless floor with the speed of 20 ms^{-1} . The ball gets deflected by an obstacle on the way. After deflection it moves with 5% of its initial kinetic energy. What is the speed of the ball now?

1. 1.00 ms^{-1}
2. 4.47 ms^{-1}
3. 14.41 ms^{-1}
4. 19.0 ms^{-1}

Correct Option - 2

Que. 40 An object is placed at 10 cm in front of a concave mirror of radius of curvature 25 cm. Find the position of the image (in cm)?

1. -50
2. 40
3. 50
4. -40

Correct Option - 3

Que. 41 Which among the following is **NOT** an example of inertia of motion?

1. Passenger leaning forward when a bus stops suddenly.
2. Dust getting unsettled when the coat is hit by a stick.
3. Cricketers move in the direction of the ball while catching it.
4. Athletes taking a run before taking a leap for long jump.

Correct Option - 3

Que. 42 Which of the following statement is correct?

1. Gases are good thermal conductors, while liquids have conductivities intermediate between solids and gases.
2. The amount of heat that a body can absorb by radiation does not depend on the color of the body.
3. Convection is possible only in fluids.
4. Heat transfer by radiation needs any medium.

Correct Option - 3

Que. 43 Which of the following statements is/are incorrect about Kepler's law?

1. The line that joins any planet to the sun sweeps unequal areas in equal intervals of time.
2. The square of the time period of revolution of a planet is proportional to the cube of the semi-major axis of the ellipse traced out by the planet.

1. 1 only
2. 2 only
3. Both 1 and 2
4. Neither 1 nor 2

Correct Option - 1

Que. 44 According to gauss theorem, the electric flux on a closed surface depends on?

1. The area of open surface
2. Charge enclosed
3. Magnetic field of charge
4. Charge outside the sphere

Correct Option - 2

Que. 45 Two simple pendulums have the same period of oscillation. The necessary condition for this is

1. their lengths are equal and the suspended particles have the same mass
2. their lengths are equal but the suspended particles need not have the same mass
3. their lengths are different but the suspended particles have the same mass
4. the masses of the suspended particle must be in inverse ratio of the lengths of the pendulums

Correct Option - 2

Que. 46 A current of 10 A exists in a wire of a cross-sectional area of 5 mm^2 with a drift velocity of $2 \times 10^{-3} \text{ ms}^{-1}$. The number of free electrons in each cubic meter of the wire is _____.

1. 2×10^6
2. 1×10^{23}
3. 625×10^{25}
4. 2×10^{25}

Correct Option - 3

Que. 47 The magnetic field inside a long current-carrying solenoid

1. decreases as we move towards the ends of the solenoid.
2. increases as we move towards the ends of the solenoid.
3. is zero along the axis of the solenoid.
4. is the same at all points inside the solenoid.

Correct Option - 4

Que. 48 Which of the following is correct regarding eddy currents in the coil?

1. Eddy currents flow in straight lines, like a wire.
2. Eddy current helps in generating electrical energy.
3. By making use of a laminated core, eddy currents are increased.
4. Eddy currents converts useful energy into heat and waste it.

Correct Option - 4

Que. 49 A sphere of mass 5 kg and radius 30 cm is rolling down an inclined plane of inclination 45° . Calculate acceleration with which the sphere rolls down?

1. 8.62 ms^{-2}
2. 4.62 ms^{-2}
3. 3.60 ms^{-2}
4. None

Correct Option - 2

Que. 50 Two charges are placed on the x-axis. Assume electric potential at infinity to be zero. Then,

Statement 1: There exists at least one point on the finite x-axis where the electric potential is zero.

Statement 2: There exist at least two points on the finite x-axis where the electric potential is zero.

1. Statements 1 and 2 both are correct.
2. Statements 1 and 2 both are incorrect.
3. Only statement 1 correct.
4. Only statement 2 is correct.

Correct Option - 2

Que. 51 If $f(x) = x + 5$ and $g(x) = \frac{1}{2x + 5}$, then $[(f \times g)(5)] =$

1. 1
2. 2.5
3. $\frac{2}{3}$
4. $\frac{1}{25}$

Correct Option - 3

Que. 52 The solution of the differential equation $\frac{dy}{dx} = \frac{1+y^2}{1+x^2}$ is:

1. $y = \tan^{-1}x$
2. $y - x = k(1 + xy)$
3. $x = \tan^{-1}y$
4. $\tan(xy) = k$

Correct Option - 2

Que. 53 Find the equation of the circle with center $(-5, 3)$ and radius 6.

1. $(x + 5)^2 + (y - 3)^2 = 36$
2. $(x - 5)^2 + (y - 3)^2 = 36$
3. $(x + 5)^2 + (y + 3)^2 = 36$
4. $(x - 5)^2 + (y + 3)^2 = 36$

Correct Option - 1

Que. 54 Find the equation of the directrix of the parabola $x^2 = -8y$?

1. $y = -2$
2. $y = 2$
3. $x = -2$
4. $x = 2$

Correct Option - 2

Que. 55 The number of ways in which 6 men and 5 women can dine at a round table if no two women are to sit together is given by

1. $6! \times 5!$
2. 30
3. $5! \times 4!$
4. $7! \times 5!$

Correct Option - 1

Que. 56 The line $3x + 4y - 24 = 0$ intersects the x-axis at A and y-axis at B. Then the circumcentre of the triangle OAB where O is the origin is

1. (2, 3)
2. (3, 3)
3. (4, 3)
4. None of the above

Correct Option - 3

Que. 57 In the expansion of $\left(\frac{x^3}{2} - \frac{2}{x^2}\right)^9$, the third term from the end is :

1. $\frac{1152}{x^8}$
2. $\frac{-1152}{x^8}$
3. $\frac{672}{x^3}$
4. $\frac{-672}{x^3}$

Correct Option - 2

Que. 58 Let $A = \{1, 2, 3\}$, $B = \{3, 4\}$ and $C = \{4, 5, 6\}$, then $A \cup (B \cap C)$ is?

1. {4}
2. {1, 2, 3, 4, 5, 6}
3. {3, 4}
4. {1, 2, 3, 4}

Correct Option - 4

Que. 59 The median of number 50, 48, 47, 48.5, 50.5, 52, 48.8, 46 will be:

1. 48
2. 50
3. 48.5
4. 48.65

Correct Option - 4

Que. 60 Centre of circle $x^2 + y^2 - 14x - 8y + 16 = 0$ is

1. (-7, -4)
2. (7, 4)
3. (7/2, 2)
4. (14, 16)

Correct Option - 2

Que. 61 A player tosses three coin. If the first toss is head. Find the probability that consecutively two head on three coin.

1. 1/3
2. 1/2
3. 1/8
4. 1/4

Correct Option - 2

Que. 62 What is $\lim_{x \rightarrow 0} \frac{\log_5(1+x)}{x}$ equal to?

1. 1
2. $\log_5 e$
3. $\log_e 5$
4. 5

Correct Option - 2

Que. 63 Find the differentiation of $f(x) = \cos(x - a)$

1. $\cos x \cos a + \sin x \sin a$
2. $\sin x \cos a - \cos x \sin a$
3. $\cos x \sin a - \sin x \cos a$
4. $\cos x \sin a + \sin x \cos a$

Correct Option - 3

Que. 64 Find the equation of the parabola with vertex at origin and focus F (0, 5) ?

1. $x^2 = 20y$
2. $x^2 = -20y$
3. $y^2 = 20x$
4. $y^2 = -20x$

Correct Option - 1

Que. 65 The value of $\int \frac{1}{1+\cos 8x} dx$

1. $\frac{\tan 2x}{8} + C$
2. $\frac{\tan 8x}{8} + C$
3. $\frac{\tan 4x}{4} + C$
4. $\frac{\tan 4x}{8} + C$

Correct Option - 4

Que. 66 If the three points A(1, 6), B(3, -4) and C(x, y) are collinear, then

1. $5x + y - 11 = 0$
2. $5x - y - 11 = 0$
3. $11x + 5y - 11 = 0$
4. $5x - y + 11 = 0$

Correct Option - 1

Que. 67 Find the value of x, if $\begin{vmatrix} 2 & x \\ x & 1 \end{vmatrix} = \begin{vmatrix} 2 & 3 \\ 4 & 1 \end{vmatrix}$?

1. $\pm 3\sqrt{3}$
2. $\pm \sqrt{3}$
3. $\pm 2\sqrt{3}$
4. None of these

Correct Option - 3

Que. 68 $\int_2^3 \frac{1}{x} dx =$

1. $\log \left| \frac{3}{2} \right|$
2. 0
3. $\log \left| \frac{2}{3} \right|$
4. None of these

Correct Option - 1

Que. 69 Number of real solutions of the equation $x - \frac{1}{x^2-9} = 3 - \frac{1}{x^2-9}$ will be

1. 0
2. 3

3. 1
4. 2

Correct Option - 2

Que. 70 Find the conjugate of $(6 + 5i)^2$?

1. $60 + 11i$
2. $11 - 60i$
3. $11 + 60i$
4. $60 - 11i$

Correct Option - 2

Que. 71 The minimum values of $1 - 4 \sin x \cos x$ is

1. -1
2. 1
3. 0
4. -3

Correct Option - 1

Que. 72 $\int \cos^{-1}(\sin x) dx = ?$

1. $\frac{\pi}{2} - \frac{x^2}{2} + c$
2. $\frac{\pi x}{2} - \frac{x^2}{2} + c$
3. $\frac{\pi}{2} + \frac{x^2}{2} + c$
4. None of these

Correct Option - 2

Que. 73 In a G.P. tenth term is 9 and fourth term is 4, then its seventh term will be-

1. 8
2. 6
3. 9
4. 7

Correct Option - 2

Que. 74 If 100 times the 100^{th} term of an AP with non zero common difference equals the 50 times its 50^{th} term, then the 150^{th} term this AP is:

1. -150

2. 150 times its 50th term
3. 150
4. 0

Correct Option - 4

Que. 75 What is the difference between the sum of first five prime numbers and sum of next five prime numbers?

1. 71
2. 72
3. 74
4. 73

Correct Option - 4

Que. 76 Who is called the father of the modern Indian dance?

1. Uday Shankar
2. Ambui Singh
3. CV Chandrasekhar
4. Raja Reddy

Correct Option - 1

Que. 77 Which one of the following continents has the maximum flow of global trade?

1. Asia
2. North America
3. Europe
4. Africa

Correct Option - 1

Que. 78 Who invented internet?

1. Steve Jobs
2. Jaap H aartsen
3. Jan Ko urn
4. Vint Cerf

Correct Option - 4

Que. 79 Diphteria is caused by following organism :

1. Fungus
2. Virus

3. Bacteria
4. Worm

Correct Option - 3

Que. 80 'Bharat Ratna' Award was established in the year _____.

1. 1954
2. 1950
3. 1951
4. 1952

Correct Option - 1

Que. 81 The Sundarbans National Park is located in which state of India?

1. West Bengal
2. Bihar
3. Odisha
4. Rajasthan

Correct Option - 1

Que. 82 What is the capital of Italy?

1. Tashkent
2. Rome
3. Wellington
4. Oslo

Correct Option - 2

Que. 83 The capital city of Argentina is _____.

1. Paris
2. Bamako
3. Buenos Aires
4. Lima

Correct Option - 3

Que. 84 Which of the following is the national bird of India?

1. Peacock
2. Dudhraj
3. Crow
4. Columbidae

Correct Option - 1

Que. 85 The longest river in India is

1. Brahmaputra
2. Ganga
3. Godavari
4. Indus

Correct Option - 2

Que. 86 Which country has the longest railway network ?

1. USA
2. Russia
3. Canada
4. India

Correct Option - 1

Que. 87 Soil conservation is the prevention of soil from _____.

1. Erosion
2. Acidification
3. Salinization
4. All of the above

Correct Option - 4

Que. 88 What is the capital of Canada?

1. Toronto
2. Montreal
3. Ottawa
4. Vancouver

Correct Option - 3

Que. 89 _____ is the harvest festival celebrated on the 13th or 14th of April in Punjab every year and it marks the birth of the Khalsa Panth of the Sikh community.

1. Hola Mohalla
2. Lohri
3. Karva Chauth
4. Baisakhi

Correct Option - 4

Que. 90 When did the "Jallianwala Bagh" Massacre take place:

1. 13 April 1918
2. 13 April 1919
3. 13 April 1920
4. 13 April 1921

Correct Option - 2

Que. 91 Mohiniyattam classical dance belongs to which state?

1. Kerala
2. Manipur
3. Tamil Nadu
4. Karnataka

Correct Option - 1

Que. 92 Which of the following crops is an example of Kharif Crops ?

1. Gram
2. Cotton
3. Pea
4. Wheat

Correct Option - 2

Que. 93 Priya is grand daughter of Suresh. Nikitha is mother of Vanasri, who is mother of Priya. Rakesh is son of Nithin. Nithin is son-in-law of Rohit. Rohit is son-in-law of Suresh. How Suresh is related to Rakesh?

1. Paternal Grand father
2. Maternal Grand father
3. Paternal Great-Grand father
4. Maternal Great-Grand father

Correct Option - 4

Que. 94 If @ means '×', # means '+', % means '÷', and \$ means '−', = means '>>' and > means '≡', choose the correct statement from the following?

1. $39 \% 3 \# 7 = 15 @ 2 \$ 10$
2. $28 \% 7 @ 5 > 24 \# 9 \$ 8$
3. $24 @ 2 \$ 8 = 48 \% 4 \# 3$
4. $48 @ 16 \% 8 > 16 \# 33 \$ 10$

Correct Option - 3

Que. 95 If a mirror is placed on the line AB, then which of the answer figures is the right mirror image of the given figure?



1. **KLAWOBMAR**
2. **KLAWBOMAR**
3. **KLAWOBMRA**
4. **KLAWBOMAR**

Correct Option - 2

Que. 96 What is the total number of digits printed, if a book containing 201 pages is to be numbered from 1 to 201?

1. 486
2. 495
3. 402
4. 395

Correct Option - 2

Que. 97 A is facing north, turns 45° anti-clockwise and then 90° clockwise. In which direction is A facing?

1. North-east
2. south-east
3. west
4. south

Correct Option - 1

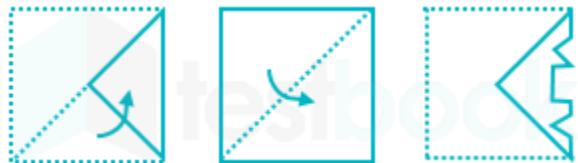
Que. 98 Among the five friends; P, Q, R, S and T, R runs faster than Q and P. T runs faster than P but slower than Q. S runs slower than only one friend. Who among the following is the fastest?

1. P
2. R
3. Q

4. T

Correct Option - 2

Que. 99 A piece of paper is folded and cut as shown in the question figures. From the given answer figures, indicate how it will appear when opened?



- 1.
- 2.
- 3.
- 4.

Correct Option - 4

Que. 100 Select the number that can replace the question mark (?) in the following series.

1, 2, 29, 154, ?

1. 499
2. 493
3. 491
4. 497

Correct Option - 4