

DU MCA

Topic:- MCA S2 P1

1) Find the odd man out :

1, 4, 27, 16, 125, 36, 216, 64, 729, 100.

[Question ID = 11219]

1. 729

[Option ID = 44870]

2. 216

[Option ID = 44871]

3. 125

[Option ID = 44872]

4. 64

[Option ID = 44873]

Correct Answer :-

• 216

[Option ID = 44871]

2) An athlete has to cover a distance of 6 Kms in 90 Minutes. He covers two-third of the distance in two-thirds of the total time. To cover the remaining distance in the remaining time, his speed should be ___ Km/Hr. ?

[Question ID = 11231]

1. 6

[Option ID = 44918]

2. 5

[Option ID = 44919]

3. 4

[Option ID = 44920]

4. 3

[Option ID = 44921]

Correct Answer :-

• 4

[Option ID = 44920]

3) A and B can complete a work in 15 days. B and C can complete the same work in 20 days. If A, B and C together can finish it in 10 days, then A and C can complete the same work in ___ days.

[Question ID = 11232]

1. 12

[Option ID = 44922]

2. 16

[Option ID = 44923]

3. 10

[Option ID = 44924]

4. 8

[Option ID = 44925]

Correct Answer :-

• 12

[Option ID = 44922]

4) If $2^x = (1024)^{1/5}$, what is the value of x ?

[Question ID = 11233]

1. 2

[Option ID = 44926]

2. 1

[Option ID = 44927]

3. 3

[Option ID = 44928]

4. 4

[Option ID = 44929]

Correct Answer :-

• 2

[Option ID = 44926]

5) Two trains each 500 metres long, are running in opposite directions on parallel tracks. If their speeds are 50 km/hr and 40 km/hr respectively, the time taken by the slower train to pass the driver of the faster one is ---- seconds.

[Question ID = 11234]

1. 30

[Option ID = 44930]

2. 20

[Option ID = 44931]

3. 10

[Option ID = 44932]

4. 5

[Option ID = 44933]

Correct Answer :-

• 20

[Option ID = 44931]

6) The speed of a boat in still water is 12 km/hr and the rate of current is 3 km/hr. The distance traveled downstream in 30 minutes is

[Question ID = 11235]

1. 10 Km.

[Option ID = 44934]

2. 8 Km

[Option ID = 44935]

3. 7.5 Km

[Option ID = 44936]

4. 5 Km.

[Option ID = 44937]

Correct Answer :-

• 7.5 Km

[Option ID = 44936]

7) Which one of the following is in built data structure of C language:

[Question ID = 11236]

1. Stack

[Option ID = 44938]

2. Queue

[Option ID = 44939]

3. Linked list

[Option ID = 44940]

4. Array

[Option ID = 44941]

Correct Answer :-

- Array

[Option ID = 44941]

8) Which of the following operators in C language has right to left associativity:

[Question ID = 11237]

1. Binary arithmetic

[Option ID = 44942]

2. Binary relational

[Option ID = 44943]

3. Unary arithmetic

[Option ID = 44944]

4. Bitwise AND

[Option ID = 44945]

Correct Answer :-

- Unary arithmetic

[Option ID = 44944]

9) The following in C language is valid

Variable = expression1? expression2:expression3

It represents a (an)

[Question ID = 11238]

1. Unary operator

[Option ID = 44946]

2. Binary operator

[Option ID = 44947]

3. Ternary operator

[Option ID = 44948]

4. Quaternary operator

[Option ID = 44949]

Correct Answer :-

- Ternary operator

[Option ID = 44948]

10) Which one of the following is incorrect in C language :

[Question ID = 11239]

1. #define LOWER = 30

[Option ID = 44950]

2. #include<stdio.h>

[Option ID = 44951]

3. #include"xyz.h"

[Option ID = 44952]

4. #include<string.h>

[Option ID = 44953]

Correct Answer :-

- #define LOWER = 30

[Option ID = 44950]

- 11) If $a_1, b_1 > 0$ and if for all $n \geq 1$,
 $a_{n+1} = (a_n + b_n)/2$, $2/b_{n+1} = 1/a_n + 1/b_n$
then $\langle a_n \rangle$ and $\langle b_n \rangle$ are

[Question ID = 11240]

1. Monotone sequences but not convergent
[Option ID = 44954]
2. Monotone sequences and convergent and converge to same limit
[Option ID = 44955]
3. Monotone sequences and convergent and converge to different limit
[Option ID = 44956]
4. Monotone sequences but unbounded
[Option ID = 44957]

Correct Answer :-

- Monotone sequences and convergent and converge to same limit

[Option ID = 44955]

- 12) If $\lim_{n \rightarrow \infty} a_n = 1$ then the $\lim_{n \rightarrow \infty} s_n$ where
 $\langle s_n \rangle = \frac{(a_1 + a_2 + \dots + a_n)}{n}$ is _____

[Question ID = 11241]

1. 0
[Option ID = 44958]
2. 1
[Option ID = 44959]
3. $1/n$
[Option ID = 44960]
4. $n!$
[Option ID = 44961]

Correct Answer :-

- 1

[Option ID = 44959]

- 13) The upper bound of the series $\sum_{n=0}^{\infty} ((-1)^n \times 2^n) / \{(1+x)(1+2x)(1+3x) \dots (1+nx)\}$, $x > 0$ is

[Question ID = 11242]

1. $\log x$
[Option ID = 44962]
2. e^x
[Option ID = 44963]
3. $\cos x$
[Option ID = 44964]
4. $\sin x$
[Option ID = 44965]

Correct Answer :-

- e^x

[Option ID = 44963]

14) The series

$$\sum_0^{\infty} \frac{1}{n (\log n) (\log \log n)^c}$$

converges if

[Question ID = 11243]

1. $c = 1$

[Option ID = 44966]

2. $0 < c < 1$

[Option ID = 44967]

3. $c > 1$

[Option ID = 44968]

4. $-1 < c < 0$

[Option ID = 44969]

Correct Answer :-

• $c > 1$

[Option ID = 44968]

15) If $\lim_{n \rightarrow \infty} \left(\frac{u_n}{v_n} \right) = l$ where $\langle u_n \rangle$ and $\langle v_n \rangle$ are strictly positive sequences and $l \neq 0$ then

[Question ID = 11244]

1. $\sum u_n$ and $\sum v_n$ converges together

[Option ID = 44970]

2. $\sum u_n$ diverges and $\sum v_n$ converges

[Option ID = 44971]

3. $\sum u_n$ converges and $\sum v_n$ diverges

[Option ID = 44972]

4. Neither $\sum u_n$ converges nor $\sum v_n$ converges

[Option ID = 44973]

Correct Answer :-

• $\sum u_n$ and $\sum v_n$ converges together

[Option ID = 44970]

16) Let $S_3 = \{I, (1,2), (1,3), (2,3), (1,2,3), (1,3,2)\}$ be a group and

$$H_1 = \{I, (1,2)\}$$

$$H_2 = \{I, (1,2,3), (1,3,2)\}$$
 be two subgroups. Then

[Question ID = 11245]

1. S_3, H_1, H_2 are cyclic groups.

[Option ID = 44974]

2. S_3 is cyclic and H_1, H_2 are not cyclic.

[Option ID = 44975]

3. S_3 is not cyclic, H_1, H_2 are cyclic subgroups of S_3

[Option ID = 44976]

4. S_3, H_1, H_2 are not cyclic.

[Option ID = 44977]

Correct Answer :-

• S_3, H_1, H_2 are cyclic groups.

[Option ID = 44974]

17) Which one of the following function is not periodic :

[Question ID = 11246]

1. $y = \sin^2 x$

[Option ID = 44978]

2. $y = 1 + \tan x$

[Option ID = 44979]

3. $y = x - [x]$

[Option ID = 44980]

4. $y = \sin x^2$

[Option ID = 44981]

Correct Answer :-

• $y = \sin x^2$

[Option ID = 44981]

18) The centre of quotient group Q_8 is

[Question ID = 11247]

1. $\{i, -1\}$

[Option ID = 44982]

2. $\{1, -1\}$

[Option ID = 44983]

3. $\{1, -i\}$

[Option ID = 44984]

4. $(\mathbb{Z}_4, +)$

[Option ID = 44985]

Correct Answer :-

• $\{1, -1\}$

[Option ID = 44983]

19) Which one of the following is true?

[Question ID = 11248]

1. Every bounded sequence is convergent.

[Option ID = 44986]

2. Every Cauchy Sequence is bounded

[Option ID = 44987]

3. Every bounded sequence is convergent but not Cauchy Sequence

[Option ID = 44988]

4. Every convergent sequence is bounded as well as Cauchy Sequence

[Option ID = 44989]

Correct Answer :-

• Every convergent sequence is bounded as well as Cauchy Sequence

[Option ID = 44989]

20) Given that $z \in \mathbb{C}$, set of complex numbers, and integer $n > 0$, the roots of the equation

$$(z+1)^{2n} + (z-1)^{2n} = 0 \text{ are}$$

[Question ID = 11249]

1. Integers

[Option ID = 44990]

2. Rational numbers

[Option ID = 44991]

3. Irrational numbers

[Option ID = 44992]

4. Is Purely imaginary numbers

[Option ID = 44993]

Correct Answer :-

- Is Purely imaginary numbers

[Option ID = 44993]

21) The mapping $w = z^2$ maps

[Question ID = 11250]

1. Every half plane to a half plane

[Option ID = 44994]

2. Any circle onto a circle centred at zero

[Option ID = 44995]

3. Square to a square

[Option ID = 44996]

4. Circles centred at zero onto circles.

[Option ID = 44997]

Correct Answer :-

- Circles centred at zero onto circles.

[Option ID = 44997]

22) For $z \in \mathbb{C}$ the function e^z is

[Question ID = 11251]

1. Periodic

[Option ID = 44998]

2. Increasing

[Option ID = 44999]

3. Odd

[Option ID = 45000]

4. Even

[Option ID = 45001]

Correct Answer :-

- Periodic

[Option ID = 44998]

23) A Ring with nonzero characteristic is

[Question ID = 11252]

1. \mathbb{Z}

[Option ID = 45002]

2. \mathbb{Z}_5

[Option ID = 45003]

3. \mathbb{Q}

[Option ID = 45004]

4. \mathbb{R}

[Option ID = 45005]

Correct Answer :-

- \mathbb{R}

[Option ID = 45005]

24) If U and V are finite-dimensional vector space then U and V are isomorphic if and only if

[Question ID = 11253]

1. $\dim V < \dim U$

[Option ID = 45006]

2. $\dim V > \dim U$

[Option ID = 45007]

3. $\dim V + \dim U = \dim V \cdot \dim U$

[Option ID = 45008]

4. $\dim V = \dim U$

[Option ID = 45009]

Correct Answer :-

• $\dim V = \dim U$

[Option ID = 45009]

25) If f is a continuous function on $[a, b]$, then for at least one point x in $[a, b]$ such that $Kf(x) = \int_a^b f(x)dx$, the value of K is

[Question ID = 11254]

1. a

[Option ID = 45010]

2. b

[Option ID = 45011]

3. $b - a$

[Option ID = 45012]

4. $b + a$

[Option ID = 45013]

Correct Answer :-

• $b - a$

[Option ID = 45012]

26) Given the following :

A. If $f(x)$ is a continuous function on the closed, bounded interval $[a, b]$, then f is integrable on $[a, b]$.

B. If $f(x)$ is a uniformly continuous function on the closed, bounded interval $[a, b]$, then f is integrable on $[a, b]$.

C. If $f(x)$ is continuous on the closed, bounded interval $[a, b]$ then f is uniformly continuous on $[a, b]$.

Choose the **correct** answer from the options given below

[Question ID = 11255]

1. A and B only

[Option ID = 45014]

2. B and C only

[Option ID = 45015]

3. A and C only

[Option ID = 45016]

4. A B and C only

[Option ID = 45017]

Correct Answer :-

• A B and C only

[Option ID = 45017]

27) Which one of the following is not Riemann-integrable on interval [a, b] ?

[Question ID = 11256]

1. Continuous function

[Option ID = 45018]

2. Monotone function

[Option ID = 45019]

3. Piecewise continuous

[Option ID = 45020]

4. Dirichlet function

[Option ID = 45021]

Correct Answer :-

• Dirichlet function

[Option ID = 45021]

28) If g is Riemann-integrable on [a, b] and $f(x) = g(x)$ except for finite number of points in [a, b], then

[Question ID = 11257]

1. f is Riemann-integrable and $\int_a^b f(x)dx < \int_a^b g(x)dx$

[Option ID = 45022]

2. f is Riemann-integrable and $\int_a^b f(x)dx = \int_a^b g(x)dx$

[Option ID = 45023]

3. f is Riemann-integrable and $\int_a^b f(x)dx > \int_a^b g(x)dx$

[Option ID = 45024]

4. f is not Riemann-integrable

[Option ID = 45025]

Correct Answer :-

• f is Riemann-integrable and $\int_a^b f(x)dx = \int_a^b g(x)dx$

[Option ID = 45023]

29) Which one of the following is not Cauchy Sequence?

[Question ID = 11258]

1. $\langle (-1)^n / n \rangle$

[Option ID = 45026]

2. $\langle 1 / (n!) \rangle$

[Option ID = 45027]

3. $\langle n + ((-1)^n / n) \rangle$

[Option ID = 45028]

4. $\langle 1 / n \rangle$

[Option ID = 45029]

Correct Answer :-

• $\langle 1 / n \rangle$

[Option ID = 45029]

30) The volume generated by revolving the area enclosed by the loop of the curve $y^4 = x(4-x)$ about x-axis is

[Question ID = 11259]

1. π^2

[Option ID = 45030]

2. $2\pi^2$

[Option ID = 45031]

3. $3\pi^2$

[Option ID = 45032]

4. $4\pi^2$

[Option ID = 45033]

Correct Answer :-

- $2\pi^2$

[Option ID = 45031]

31) The oblique asymptote(s) of the curve $y = x^3 / (x^2 - 1)$

[Question ID = 11260]

1. $y = x$

[Option ID = 45034]

2. $y = 2x$

[Option ID = 45035]

3. $y = -x$

[Option ID = 45036]

4. $y = -2x$

[Option ID = 45037]

Correct Answer :-

- $y = x$

[Option ID = 45034]

32) The condition for the line $x \cos \alpha + y \sin \alpha = p$ to touch the curve

$(x/a)^3 + (y/b)^3 = 1$ is

$(a \cos \alpha)^t + (b \sin \alpha)^t = p^t$ where t is equal to

[Question ID = 11261]

1. $3/2$

[Option ID = 45038]

2. $1/2$

[Option ID = 45039]

3. 2

[Option ID = 45040]

4. 3

[Option ID = 45041]

Correct Answer :-

- $3/2$

[Option ID = 45038]

33) The conic section $9x^2 + 24xy + 16y^2 - 2x + 14y + 1 = 0$ is a.....

[Question ID = 11262]

1. Circle

[Option ID = 45042]

2. Ellipse

[Option ID = 45043]

3. Hyperbola

[Option ID = 45044]

4. Parabola

[Option ID = 45045]

Correct Answer :-

- Parabola

[Option ID = 45045]

34) The reflection of point (3,2) in the line $y = x$ is

[Question ID = 11263]

1. (2,3)

[Option ID = 45046]

2. (2,5)

[Option ID = 45047]

3. (5,3)

[Option ID = 45048]

4. (5,2)

[Option ID = 45049]

Correct Answer :-

• (2,3)

[Option ID = 45046]

35) The diagonalization of the matrix $\begin{bmatrix} 1 & 4 \\ 2 & 3 \end{bmatrix}$ gives the diagonal matrix:

[Question ID = 11264]

1. Diagonal (-1, -5)

[Option ID = 45050]

2. Diagonal (1, -5)

[Option ID = 45051]

3. Diagonal (1 , 5)

[Option ID = 45052]

4. Diagonal (-1, 5)

[Option ID = 45053]

Correct Answer :-

• Diagonal (-1, 5)

[Option ID = 45053]

36) Non trivial solutions of the system of linear equations

$$x_1 + 2x_2 + 3x_3 = 0$$

$$2x_1 + x_2 + 3x_3 = 0$$

$$3x_1 + 2x_2 + x_3 = 0$$

is

[Question ID = 11265]

1. $x_1 = x_2 = x_3 = k$

[Option ID = 45054]

2. $x_1 = -x_2 = x_3 = k$

[Option ID = 45055]

3. $x_1 = x_2 = -x_3 = k$

[Option ID = 45056]

4. $x_1 = -x_2 = -x_3 = k$

[Option ID = 45057]

Correct Answer :-

• $x_1 = -x_2 = -x_3 = k$

[Option ID = 45057]

37) The inverse of a matrix

$$\begin{bmatrix} 1 & 3 & 3 \\ 3 & 1 & 3 \\ 3 & 3 & 1 \end{bmatrix} \text{ is } \begin{bmatrix} u & x & x \\ x & u & x \\ x & x & u \end{bmatrix}$$

$$\begin{bmatrix} 1 & 3 & 4 \\ 1 & 4 & 3 \end{bmatrix} \text{ is } \begin{bmatrix} y & 0 & v \\ y & v & 0 \end{bmatrix}$$

where the value of (x, y) is

[Question ID = 11266]

1. $(-3, -1)$

[Option ID = 45058]

2. $(3, 1)$

[Option ID = 45059]

3. $(1, 3)$

[Option ID = 45060]

4. $(-1, -3)$

[Option ID = 45061]

Correct Answer :-

• $(-3, -1)$

[Option ID = 45058]

38) If $w = \log t$ where $t^2 = (x-1)^2 + (y-1)^2 + (z-1)^2$ then

$\frac{\partial}{\partial x} \left(\frac{\partial w}{\partial x} \right) + \frac{\partial}{\partial y} \left(\frac{\partial w}{\partial y} \right) + \frac{\partial}{\partial z} \left(\frac{\partial w}{\partial z} \right)$ is equal to

[Question ID = 11267]

1. 1

[Option ID = 45062]

2. $1/t$

[Option ID = 45063]

3. $1/t^2$

[Option ID = 45064]

4. 0

[Option ID = 45065]

Correct Answer :-

• $1/t^2$

[Option ID = 45064]

39) If $F(u) = f(x, y, z)$ be a homogeneous function of degree n

then

$$x \left(\frac{\partial u}{\partial x} \right) + y \left(\frac{\partial u}{\partial y} \right) + z \left(\frac{\partial u}{\partial z} \right) = t \text{ where } t \text{ is}$$

[Question ID = 11268]

1. $n [F(u)/F'(u)]$

[Option ID = 45066]

2. $n [F'(u)/F(u)]$

[Option ID = 45067]

3. $(1/n) [F(u)/F'(u)]$

[Option ID = 45068]

4. $[F(u)/F'(u)]$

[Option ID = 45069]

Correct Answer :-

• $n [F(u)/F'(u)]$

[Option ID = 45066]

40) If $\cos \alpha + \cos \beta + \cos \gamma = \sin \alpha + \sin \beta + \sin \gamma = 0$

$$\text{then } \cos 2\alpha + \cos 2\beta + \cos 2\gamma = \text{-----}$$

[Question ID = 11269]

1. 0
[Option ID = 45070]
2. 1
[Option ID = 45071]
3. - 1
[Option ID = 45072]
4. None of these
[Option ID = 45073]

Correct Answer :-

- 0
[Option ID = 45070]

Topic:- MCA S2 P2

1) Read the given passage and answer the question that follow

Coronaviruses are a large family of viruses that cause illness ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome and Severe Acute Respiratory Syndrome. A novel coronavirus is a new strain that has not been previously identified in humans. Coronaviruses are zoonotic, meaning they are transmitted between animals and people. Detailed investigations found that SARS was transmitted from civet cats to humans and MERS from dromedary camels to humans. Several known coronaviruses are circulating in animals that have not yet infected humans. Common signs of infection include respiratory symptoms, fever, cough, shortness of breath and breathing difficulties. In more severe cases, the infection can cause pneumonia, severe acute respiratory syndrome, kidney failure and even death. To prevent infection spread include regular hand washing, covering mouth and nose when coughing and sneezing, thoroughly cooking meat and eggs. Avoid close contact with anyone showing symptoms of respiratory illness such as coughing and sneezing.

The full form of SARS is

[Question ID = 11271]

1. Severe Acute Respiratory Syndrome
[Option ID = 45078]
2. Soft Acute Respiratory Syndrome
[Option ID = 45079]
3. Soft Accurate Respiratory Syndrome
[Option ID = 45080]
4. Severe Acute Respiratory System
[Option ID = 45081]

Correct Answer :-

- Severe Acute Respiratory Syndrome
[Option ID = 45078]

2) Read the given passage and answer the question that follow

Coronaviruses are a large family of viruses that cause illness ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome and Severe Acute Respiratory Syndrome. A novel coronavirus is a new strain that has not been previously identified in humans. Coronaviruses are zoonotic, meaning they are transmitted between animals and people. Detailed investigations found that SARS was transmitted from civet cats to humans and MERS from dromedary camels to humans. Several known coronaviruses are circulating in animals that have not yet infected humans. Common signs of infection include respiratory symptoms, fever, cough, shortness of breath and breathing difficulties. In more severe cases, the infection can cause pneumonia, severe acute respiratory syndrome, kidney failure and even death. To prevent infection spread include regular hand washing, covering mouth and nose when coughing and sneezing, thoroughly cooking meat and eggs. Avoid close contact with anyone showing symptoms of respiratory illness such as coughing and sneezing.

MERS is spread from ----- to humans.

[Question ID = 11272]

1. Cat

[Option ID = 45082]

2. Dog

[Option ID = 45083]

3. Camel

[Option ID = 45084]

4. Monkey

[Option ID = 45085]

Correct Answer :-

- Camel

[Option ID = 45084]

3) Read the given passage and answer the question that follow

Coronaviruses are a large family of viruses that cause illness ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome and Severe Acute Respiratory Syndrome. A novel coronavirus is a new strain that has not been previously identified in humans. Coronaviruses are zoonotic, meaning they are transmitted between animals and people. Detailed investigations found that SARS was transmitted from civet cats to humans and MERS from dromedary camels to humans. Several known coronaviruses are circulating in animals that have not yet infected humans. Common signs of infection include respiratory symptoms, fever, cough, shortness of breath and breathing difficulties. In more severe cases, the infection can cause pneumonia, severe acute respiratory syndrome, kidney failure and even death. To prevent infection spread include regular hand washing, covering mouth and nose when coughing and sneezing, thoroughly cooking meat and eggs. Avoid close contact with anyone showing symptoms of respiratory illness such as coughing and sneezing.

According to the studies carried out so far , which of the following diseases is not directly caused by coronaviruses

[Question ID = 11273]

1. Cold

[Option ID = 45086]

2. Cough

[Option ID = 45087]

3. Pneumonia

[Option ID = 45088]

4. Typhoid

[Option ID = 45089]

Correct Answer :-

- Typhoid

[Option ID = 45089]

4) Read the given passage and answer the question that follow

Coronaviruses are a large family of viruses that cause illness ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome and Severe Acute Respiratory Syndrome. A novel coronavirus is a new strain that has not been previously identified in humans. Coronaviruses are zoonotic, meaning they are transmitted between animals and people. Detailed investigations found that SARS was transmitted from civet cats to humans and MERS from dromedary camels to humans. Several known coronaviruses are circulating in animals that have not yet infected humans. Common signs of infection include respiratory symptoms, fever, cough, shortness of breath and breathing difficulties. In more severe cases, the infection can cause pneumonia, severe acute respiratory syndrome, kidney failure and even death. To prevent infection spread include regular hand washing, covering mouth and nose when coughing and sneezing, thoroughly cooking meat and eggs. Avoid close contact with anyone showing symptoms of respiratory illness such as coughing and sneezing.

To prevent infection spread include regular

[Question ID = 11274]

1. Bathing

[Option ID = 45090]

2. Hand washing

[Option ID = 45091]

3. Drinking warm water

[Option ID = 45092]

4. Coughing

[Option ID = 45093]

Correct Answer :-

- Hand washing

[Option ID = 45091]

5) Read the given passage and answer the question that follow

Coronaviruses are a large family of viruses that cause illness ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome and Severe Acute Respiratory Syndrome. A novel coronavirus is a new strain that has not been previously identified in humans. Coronaviruses are zoonotic, meaning they are transmitted between animals and people. Detailed investigations found that SARS was transmitted from civet cats to humans and MERS from dromedary camels to humans. Several known coronaviruses are circulating in animals that have not yet infected humans. Common signs of infection include respiratory symptoms, fever, cough, shortness of breath and breathing difficulties. In more severe cases, the infection can cause pneumonia, severe acute respiratory syndrome, kidney failure and even death. To prevent infection spread include regular hand washing, covering mouth and nose when coughing and sneezing, thoroughly cooking meat and eggs. Avoid close contact with anyone showing symptoms of respiratory illness such as coughing and sneezing.

Which of the following is correct statement?

[Question ID = 11275]

1. Several known coronaviruses are circulating in animals that have not yet infected humans.
[Option ID = 45094]
2. Several unknown coronaviruses are circulating in animals that have not yet infected humans
[Option ID = 45095]
3. All coronaviruses that are circulating in animals have been found.
[Option ID = 45096]
4. Birds are also infected by coronavirus
[Option ID = 45097]

Correct Answer :-

- Several known coronaviruses are circulating in animals that have not yet infected humans.
[Option ID = 45094]

Topic:- MCA S2 P3

1) Read the given passage and answer the question that follows

Many rivers in India are poisoned by tannery wastes. It is stated by a group that in the region around the Palar River, 35,000 hectares of farmland have been affected by tannery waste. Waste has reduced the yield of the once-fertile land by half. In the local population, there has been a significant increase in the incidence of health problems which result from drinking water polluted by tannery effluent. These conditions include gastrointestinal diseases and tuberculosis. The tannery workers themselves suffer from skin diseases, fever, eye inflammation, lung cancer and sterility.

Environmental activists and villagers in Kanpur, home of the largest tanneries in India, recently banded together and blocked a tannery drain that releases toxic effluent into the Ganges.

The action was prompted by the fact that effluent from leather tanneries, despite being polluted with chromium and other chemicals used in the tanning process, was being promoted as “treated” and safe for irrigating farmland. Environmentalists fear that the toxins from the tannery effluent are being passed through the food chain and report that some villagers are already showing signs of poisoning.

Which of the following is correct statement:

[Question ID = 11277]

1. Tannery waste in the region around Palar river has reduced the yield of the once-fertile land by half.
[Option ID = 45102]
2. Tannery waste in the region around Palar river has not reduced the yield of land
[Option ID = 45103]
3. Tannery waste in the region around Palar river has increased the yield of the land by fifty percent
[Option ID = 45104]
4. Tannery waste in the region around Palar river has not reduced the yield of the land by half
[Option ID = 45105]

Correct Answer :-

- Tannery waste in the region around Palar river has reduced the yield of the once-fertile land by half.

[Option ID = 45102]

2) Read the given passage and answer the question that follows

Many rivers in India are poisoned by tannery wastes. It is stated by a group that in the region around the Palar River, 35,000 hectares of farmland have been affected by tannery waste. Waste has reduced the yield of the once-fertile land by half. In the local population, there has been a significant increase in the incidence of health problems which result from drinking water polluted by tannery effluent. These conditions include gastrointestinal diseases and tuberculosis. The tannery workers themselves suffer from skin diseases, fever, eye inflammation, lung cancer and sterility.

Environmental activists and villagers in Kanpur, home of the largest tanneries in India, recently banded together and blocked a tannery drain that releases toxic effluent into the Ganges.

The action was prompted by the fact that effluent from leather tanneries, despite being polluted with chromium and other chemicals used in the tanning process, was being promoted as “treated” and safe for irrigating farmland. Environmentalists fear that the toxins from the tannery effluent are being passed through the food chain and report that some villagers are already showing signs of poisoning.

----- has caused health problems in the local farmers.

[Question ID = 11278]

1. Drinking polluted water

[Option ID = 45106]

2. Breathing polluted air.

[Option ID = 45107]

3. Eating adulterated food

[Option ID = 45108]

4. Drinking milk

[Option ID = 45109]

Correct Answer :-

- Drinking polluted water

[Option ID = 45106]

3) Read the given passage and answer the questions that follow

Many rivers in India are poisoned by tannery wastes. It is stated by a group that in the region around the Palar River, 35,000 hectares of farmland have been affected by tannery waste. Waste has reduced the yield of the once-fertile land by half. In the local population, there has been a significant increase in the incidence of health problems which result from drinking water polluted by tannery effluent. These conditions include gastrointestinal diseases and tuberculosis. The tannery workers themselves suffer from skin diseases, fever, eye inflammation, lung cancer and sterility.

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The affluent from tannery industry is polluted with

[Question ID = 11279]

1. Chromium

[Option ID = 45110]

2. Sulphur

[Option ID = 45111]

3. Potassium

[Option ID = 45112]

4. Chlorine

[Option ID = 45113]

Correct Answer :-

- Chromium

Chromium
[Option ID = 45110]

4) Read the given passage and answer the questions that follow

Many rivers in India are poisoned by tannery wastes. It is stated by a group that in the region around the Palar River, 35,000 hectares of farmland have been affected by tannery waste. Waste has reduced the yield of the once-fertile land by half. In the local population, there has been a significant increase in the incidence of health problems which result from drinking water polluted by tannery effluent. These conditions include gastrointestinal diseases and tuberculosis. The tannery workers themselves suffer from skin diseases, fever, eye inflammation, lung cancer and sterility.

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Villagers blocked a tannery drain that releases toxic effluent into the -----

[Question ID = 11280]

1. Ganges

[Option ID = 45114]

2. Palar

[Option ID = 45115]

3. Land around Ganges

[Option ID = 45116]

4. Land around Palar

[Option ID = 45117]

Correct Answer :-

- Ganges

[Option ID = 45114]

5) Read the given passage and answer the questions that follow

Many rivers in India are poisoned by tannery wastes. It is stated by a group that in the region around the Palar River, 35,000 hectares of farmland have been affected by tannery waste. Waste has reduced the yield of the once-fertile land by half. In the local population, there has been a significant increase in the incidence of health problems which result from drinking water polluted by tannery effluent. These conditions include gastrointestinal diseases and tuberculosis. The tannery workers themselves suffer from skin diseases, fever, eye inflammation, lung cancer and sterility.

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Environmentalists fear that the toxins from the tannery effluent are being passed to -----

[Question ID = 11281]

1. Food chain

[Option ID = 45118]

2. Eating shops

[Option ID = 45119]

3. Rural population

[Option ID = 45120]

4. Slum areas

[Option ID = 45121]

Correct Answer :-

- Food chain

