GENERAL KNOWLEDGE

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Kidney Infection Symptoms

ney infection a type of urinary tract infection or UTI. As you are aware, most kidney infections are due to viruses and bacteria. The two first infect your lower urinary tract, which is your bladder. From here, the infection moves up towards one or both of your kidneys. Your kidneys are also essential parts of your urinary tract. In medical terminology, this condition is known as Pyelonephritis. It can be life-threatening. Seek medical help if you notice any signs of kidney infection. Here in this article, we will discuss kidney infection symptoms in men and women.

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Pyelonephritis can be serious and life threatening. Persons who already have an underlying condition of kidney stones have higher chances of developing kidney infection. Furthermore, the presence of bacteria and virus can give rise to serious conditions such as sepsis. So, it is wise to seek immediate medical help when the symptoms of kidney infection become apparent. Sometimes, the defence system of your body fails and bacteria or virus can cause a UTI in the bladder. If you have any symptoms of bladder infection, visit your doctor

Kidney Infection Symptoms in Men: Kidney infection or UTI affects a few vounger men. Men who are above 50 are sometimes prone to kidney infection in a different way. The prostate gland (a gland at the bottom



4. Getting up from sleep to

5. Tenderness in the blad-

6. Cloudy or foul-smelling

7. Nausea and vomiting

8. Pain in the upper back

9. Fever with or without

Kidney Infection

Symptoms in Women:

Women, compared to men,

infections. So are pregnant

mothers, infants under two

years of age, and people

who are above 60 years.

According to estimates, 3 to

4 men in every 10.000 and 15

to 17 women in every 10,000

suffer from a kidney infection.

Women are More Likely to Develop Kidney

• They had a UTI in the

bladder during the past one

• They are pregnant which results in hormonal change

• Have problems in the

Infection if -

year

are more affected by kidney

pass urine.

der region.

or in the side

urine

chills.

of the bladder and close to the urethra) can enlarge and subsequently obstruct the flow of urine from the bladder. The condition is known as benign hyperplasia (BPH). BPH can prevent the bladder from emptying fully. Now, it can lead

to the growth of bacteria and cause an infection. Cystitis is yet another common condition in men who practise unnatural sex and those who do not undergo circumcision. Some other factors that may increase the chances of UTI include

obstructions, which are caused by partial blockage of the urethra- it is known as a stricture. The other cause is the non-natural such as rubber catheter tubes to relieve an obstruction in the urethra. All of these factors may lead to a kidney infection. Some of the symptoms of a kidney

infection include: 1. An intense need to uri-

nate. 2. Unexpected frequent

urination. 3. Discomfort, pain, or urinary tract-narrowed ureburning sensation during thra, kidney stone, or enlarge urination prostate.

• Have urine reflux, or back up to one or both kid-

 Have diabetes or a compromised immune system. Have a spinal cord injury or nerve damage near the bladder.

Have trouble in emptying the bladder fully.
Are sexually active,

leading to irritation in the urethra.

Symptoms of a kidney infection in women include fever, chills, back or groin pain, abdominal pain, frequent urination, persistent urge to urinate, burning sensation while urinating, nausea and vomiting, cloudy or foul-smelling urine, pus or blood in urine.

Complications: Whether men or women, a severe kidney infection can become life-threatening if left unattended for long, especially if there are certain underlying conditions. One has to seek immediate medical attention. If there are signs of bloody urine or nausea and vomiting, then in such cases medical help is the first requirement.

As you are aware, the kidnevs are an essential part of the urinary tract system in our body. For the smooth function of the human systems, all the systems within our body have to work effi-ciently. The Kidneys work as a filter within our body. All waste products and excess fluid are thrown out by the kidneys in the form of urine. Hormones produced by kidneys control calcium metabolism and prevent the formation of kidney stones.

retirement from **International Cricket**

oeen Ali, the ver-satile England all-rounder, has officially announced his retirement from international cricket. This decision comes in the wake of his omission from the upcoming white-ball series against Australia, signaling the end of an era for English cricket. Moeen Ali's international career spanned across all formats of the game:

68 Test matches. 138 One-Day Internationals (ODIs). 92 Twenty20 Internationals (T20Is). His versatility and skill

made him a key player for England across these formats. Ali's career was marked

future: "I could hold on by significant achieveand try to play for England ments, including: Winning again, but I know in reality the 50-over World Cup. Clinching the T20 World I won't," he admitted. This statement reflects a mature Cup. These victories underand pragmatic approach to score his contribution to his career's conclusion



research infrastructure, as highlighted by Abhay Karandikar, Secretary of the Department of Science and Technology (DoST). One important example is the opening of the Centre for in-situ and Correlative

research and development environment in India. This collaborative culture encourages innovation and drives

England's dominance in

white-ball cricket in recent

Despite feeling capable of competing at the highest

level, Ali chose to be "realis-

tic" about his international

years.

scientific progress across the country.

CISCoM is equipped with technology for real-time analysis at different levels of detail. This technology is valuable not just for basic scientific research but also for practical industrial uses. The centre uses advanced microscopy techniques to help solve complex scientific problems, making it a key resource for researchers and industries alike

b. 125

d. 9

a. 58

c. 73

a. IIT Bombay

b. IIT Madras c. IIT Delhi

d. IIT Kanpur

Philips India?

a. Nigeria

c. Uganda

d. Kenya

b. Congo

a. Daniel Mazon

b. Rajesh Kumar

c. Suresh Menon

d. Bharath Sesha

Current affairs Moeen Ali announces Randhir Singh elected as first Indian president of Olympic Council of Asia

n September 8, 2024, a landmark moment in Asian sports history unfolded as Randhir Singh, a veteran sports administrator, was elected as the president of the Olympic Council of Asia (OCA). This momentous event took place during the 44th General Assembly of the continental body in New Delhi, marking the first time an Indian has ascended to this prestigious position. Mr. Singh, at 77 years of

the Asian sports community.

Term Duration: 2024 to

Role: Leading the OCA, the apex body for Olympic sports

a n d

Tenure

Responsibilities:

2028

in Asia



acting president following the suspension of Sheikh age, stood as the lone eligible Ahmad Al-Fahad Al-Sabah, candidate for the OCA presiwho was: Handed a 15-year dent's post. His election was ban from sports administraunanimous, reflecting the tion in May 2024. Sanctioned widespread support and confifor ethics breaches. dence in his leadership across

The official announcement of Mr. Singh's presidency was made in the presence of Sports Minister Mansukh Mandaviya and Top sports leaders from all 45 countries of Asia. This high-profile attendance underscores the significance of the election in Mr. Singh took over as the Asian sports landscape.

Researchers discover new 'Dancing Girls' Ginger species in India

Researchers from the Indian Institute of and Research (IISER) Bhopal have made an exciting discovery by uncovering three new species of ginger in the Eastern parts of India, particularly in the states of Mizoram and Meghalaya. These new types of ginger are special because of their unique flower shapes, and together, they are called the "dancing girls" ginger species.

The discovery was made by two scientists, Ritu Yadav and Vinita Gowda, during their field explorations. Their work is important because it highlights the rich variety of plant life in these regions and adds to our knowledge about botany (the study of plants).

The newly discovered species belong to a group of plants



known as the Globba genus This genus is known for its beautiful, ornamental flowers, and it includes about 136 different species. The Globba genus is part of the ginger family, called Zingiberaceae, and it is the fourth largest group in that family.

The three new species of ginger discovered are: Globba tyrnaensis, Globba Janakiae, Globba Yadaviana

Kamala Sohonie: First female Indian scientist rejected by the then-Director and Nobel Laureate, Prof.

Zamala Sohonie was a pioneering Indian biochemist who made significant contributions to science and opened doors for women in research. Her journey as the first Indian woman to receive a PhD in a scientific discipline paved the way for future generations of women scientists

Kamala Sohonie was born on 18 June 1911 in Indore, now part of Madhya Pradesh, India. Her father, Narayanarao Bhagvat, and her uncle, Madhavrao Bhagvat, were both chemists and alumni of the Tata Institute of Sciences, which later became the Indian



Institute of Science (IISc) in Bengaluru. Following the family tradition, Kamala completed her BSc in Chemistry and Physics from Bombay University in 1933.

In 1933, Kamala applied for a research fellowship at IISc. Despite her qualifications, her application was initially



b. more stable and prevent

c. higher dilution rate

11. Which of the state-

uous reactor at steady

a. The rates of biomass,

substrate and product con-

product concentrations are

product concentrations do

d. Biomass, substrate

12. A continuous biore-

13. For organisms grow-

ing in a chemostat, the

a. cannot be determined

b. can be determined from

c. equals to the maximum

Answer

1. b, 2. a, 3. b, 4. d, 5. a, 6.

b, 7. b, 8. d, 9. c, 10. d, 11. c,

specific growth rate of the

d. none of the above

specific growth rate

productivity is called

a. turbidostat

b. chemostat

c. level stat

the dilution rate

d. pH

culture

12. b, 13. b.

and product concentrations

not change with time

change with time

c. Biomass, substrate and

before the cells washout

all of the above

centrations are zero

washout

state?

zero

focused on proteins in milk, pulses, and legumes, which were crucial for the Indian context. Her work significantly impacted Prof. Raman's decision to allow more women into the institute.

essential for energy production in cells. Her concise thesis on the subject, completed in just 14 months, was a notable departure from the norm. Upon returning to India in 1939, Kamala joined Lady Hardinge Medical College as a Professor and Head of the Department of Biochemistry. Kamala passed away on 28 June 1998 in New Delhi, short-

ly after a felicitation ceremony by the Indian Council of Medical Research (ICMR).

Question & Answer Series Daily current affairs

DeepMind's Morni AI 1. Which country was project cover? visited by the Prime Minister to reinforce bilateral ties and inaugurate a new Indian High **Commission?** tute has inaugurated a new a. Singapore b. Brunei campus in Abu Dhabi? c. Laos d. Philippines



d. 87 1. 1, 1, 2, 6, 24, ?, 720 C. 81 a. 100 b. 104 16. 6, 13, 28, 59,? c. 108 d. 120 b. 113 a. 111 C 2. 2, 15, 4, 12, 6, 7, ?, ? d. 122 c. 114 a. 8, 8 13. Which Indian insti-17. 4, 12, 36, 108, ? b. 8, 0 c. 3. 8 a. 144 b. 216 d. None of these c. 304 d. 324 18. Which term of the 3. 4832, 5840, 6848, ? series 5, 8, 11, 14,.....is 320? a. 7815 b. 7846 b. 105th c. 7856 d. 7887 a. 104th c. 106th d. 64th 4. 5824, 5242, ?, 4247, 14. Who has been appointed as the new 3823 19. 8, 9, 8, 7, 10, 9, 6, 11, **Managing Director for** a. 4467 b. 4718 10, ?, 12 c. 4856 d. 5164 h 7 a.5 c. 8 d. 11 5. 2, 8, 16, 128, ? a.2042 b. 2046 20. 3, 7, 15, ?, 63, 127 c. 2048 d. 2056 a. 30 b. 31 c. 47 d. 52 15. In which country did 6.1, 2, 6, 7, 21, 22, 66, 67, ? a jailbreak attempt result 21. 4, 10, ?, 82, 244, 730 a. 70 b. 134 in at least 129 prisoners c. 201 d. 301 a.24 b. 28 c. 77 d. 218 7. 0.5, 0.55, 0.65, 0.8,? b. 0.82 22. 1, 5, 13, 25, 41,? a.0.9 c.1 d. 0.95 a. 51 b. 57 c.61 d. 63 8. 0, 2, 3, 5, 8, 10, 15, 17, 16. In which Indian state 23. 325, 259, 204, 160, 127, 24, 26, ? b. 30 105,? a.28 a.94 b.96 c. 32 d. 35 c. 98 d. 100 9. 11, 13, 17, 19, 23, 25, ? a.26 b. 27 24.4,7,12,19,28,? c. 29 b. 36 d. 37 a. 30 c. 39 d. 49 10. 5, 2, 7, 9, 16, 25, ? b. 45 25. 5760, 960, ?, 48, 16, 8 a. 41 c. 48 d. 52 a. 120 b. 160 c. 192 d. 240 11. 7, 26, 63, 124, 215, 26. 45, 54, 47, ?, 49, 56, 342.? 51, 57, 53 a. 391 b. 421 c. 481 d. 511 a.48 b. 50 12. 3, 12, 27, 48, 75, 108,? c. 55 d. None of these a. 147 b. 162 c. 183 d. 192 27. 3, 8, 13, 24, 41, ? 13. 3, 7, 23, 95, ? a. 70 b. 75 b. 128 a.62 c. 80 d. 85 c. 479 Answer d. 575 1. d, 2. b, 3. c, 4. b, 5. c, 6. c, 7. 14. 6, 18, 3, 21, 7, 56, ? c, 8. d, 9. c, 10. a, 11. d, 12. a, 13. a.8 b. 9 c, 14. a, 15. a, 16. d, 17. d, 18. c, c. 63 d. 64 19. a, 20. b, 21. b, 22. c, 23. a, 24.

c, 25. c, 26. c, 27. a.

ndia is making significant strides in improving its

In 1937, she went to Cambridge University to work under Dr. Derek Richter and later Dr. Robin Hill. At Cambridge, she discovered

the enzyme Cytochrome C,

Microscopy (CISCoM) at the Indian Institute of Technology Hyderabad (IIT-H). This new center is expected to boost collaboration in scientific research.

Creating advanced research facilities is essential for promoting teamwork among researchers from different fields. When researchers from various disciplines work together, it helps improve the overall

1. Yield coefficient represents

a. total biomass or product produced

b. conversion efficiency of a substrate into product c. conversion rate of a substrate into biomass or product

d. production time of biomass or product

2. The lowest biomass yield in a culture of Escherichia coli will be in a. an aerated batch culture containing a initial high concentration of glucose

b. an aerated batch reactor containing an initial low concentration of glucose

c. an aerated fed-batch reactor having a low glucose concentration

d. an aerated continuous reactor having a low glucose concentration

3. When two populations compete for a single growth limiting substrate in a continuous fermenter, which organism would not be washed out?

a. Organism maintaining the highest substrate concentration

b. Organism maintaining the lowest substrate concentration

c. Both (a) and (b)

d. Organism maintaining the moderate substrate concentration

4. The continuous cultures are not widely used in industry because

a. they are not suited for the production of secondary metabolites

b. contamination or mutation can have a disastrous effect on the operation c. the government will not approve the licensing of pharmaceuticals produced in continuous cultures d. all of the above

5. The lowest yield of ATP /is in a. fermentation



aerobic respiration anaerobic respiration same in (a), (b) and (c)

6. Mixing in an anaerobic sludge blanket reactor

is due to a. rapid change in water temperatures throughout the reactor

b. release of gases by the microbial populations c. swimming of microbes d. none of the above

8. Formation of end product by Lactococcus lactis will become nongrowth associated as lactic acid accumulates because a. cells will redirect ATP

to anabolism b. cells will redirect NAD+

to anabolism c. cells will redirect ATP to facilitate the diffusion of lactic acid and H+ out of the cells

d. cells will redirect ATP to the active transport of lactic acid and H+ out of the cells

9. Which of the following would not be subjected to the "glucose effect"? a. Aspergillus fumigatus b. Saccharomyces cerevisiae

c. Escherichia coli d. Aspergillus niger

10. Immobilized cell reactors for wastewater treatment have the advantage of having/being a. higher cell concentration

2. At which Air Force Station was the second phase of 'Exercise Tarang Shakti 24' conducted? a. Jodhpur

b. Pune c. Chandigarh d. Bengaluru

3. Who has taken over as the Chairman of Indian ment is true for contin-**Oil Corporation Limited** (IOCL) effective? a. Rajesh Gupta b. V Satish Kumar c. Anil Sharma b. Biomass, substrate and d. Suresh Mehta 4. Which compa-

ny launched USDdenominated life insurance products for NRIs from **GIFT** City? a. HDFC Life b. ICICI Prudential c. Tata AIA d. Max Life

actor in which only the flow rate is used to control 5. What is the primary purpose of the Krishi the rate of cell or product **Nivesh Portal?** a. Agricultural invest-

ments and support farmers b. Increasing crop yield c. Providing weather updates to farmers d. Facilitating international trade of agricultural products

6. Which state passed the historic Aparajita Anti-Rape Bill, amending central laws on rape and sexual crimes? a. Maharashtra b. Tamil Nadu c. Uttar Pradesh d. West Bengal

7. Which company launched "PresVu," India's first eye drops for presbyopia? a. Sun Pharma b. Cipla c. Entod Pharmaceuticals d. Dr Reddy's Laboratories

8. Which country did **Pope Francis visit first** during his historic four-nation Asia-Pacific tour? a. Japan b. Indonesia being killed? c. Australia d. Philippines 9. Which airline launched the AI-powered app feature 'AEYE Vision' for real-time flight updates

b. IndiGo

a. Athe

issues in the region?

12. How many Indic

languages will Google

a. Saudi Arabia

b. Qatar

c. Oman

d. UAE

b. Ola

has the Chief Minister launched a Rs 1,347 crore using image recognition? a. Air India water supply project? a. Uttar Pradesh b. Maharashtra c. SpiceJet d. Vistara c. Bihar d. Jharkhand 10. Which prominent motorcycle manufacturer 17. Which company has plans to invest Rs 900 crore partnered with the Goa

in Altigreen Propulsion government to improve plastic waste management Labs, a startup in India's electric 3-wheeler market? in Mormugao? a. Bisleri c. Hero MotoCorp d. TVS Motor Company 11. Which country pardoned 57 arrested Bangladeshi protestors, highlighting diplomatic

b. Aquafina c. Coca-Cola d. Kinlev 18. Which country has signed an MoU with India to enhance public-sector audit cooperation? tensions and human rights a. UAE b. Saudi Arabia c. Qatar d. Oman

Answer 1. b, 2. a, 3. b, 4. c, 5. a, 6. d, 7. c, 8. b, 9. a, 10. c, 11. d, 12. b, 13. c, 14. d, 15. b, 16. c, 17. a, 18. a.

15. 4, 9, 25, ?, 121, 169, 289, 361 a. 49

b. 64