**UP-PSC GS Paper-1**

**Set-5**

**Question Number: 1**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: Science and Technology**

**Sub- Concept:**

**Concept Field:**

**Q: 1**

Read the statement given below:

1. The Arabian sea has less sea surface temperature than the Bay of Bengal
2. Coriolis Force is directly proportional to the latitude, as both the water bodies are on similar latitude Coriolis Force is almost the same.
3. Track of Tropical cyclone is determined by tropical easterly wind

Choose the correct answer from the code given below?

1. Only 1 and 2
2. Only 2 and 3
3. Only 1 and 3
4. None of these

**Answer:** C

**Explanation:**

The Arabian Sea experiences a lesser number of cyclones than the Bay of Bengal. Still, in 2019 it saw a more significant amount of tropical cyclones than the Bay of Bengal. Five of the eight cyclones - 60 per cent of the total - that affected India in 2019 were in the Arabian Sea.The Arabian Sea is comparatively less prone to cyclonic storms than the Bay of Bengal because:

The Arabian Sea has **less sea surface temperature** than the Bay of Bengal. This cold sea surface temperature is not favourable for the development and sustenance of cyclonic storms. **So, statement 1 is correct**.

Track of Tropical cyclone is determined by tropical easterly wind; thus cyclones move from east to west direction; therefore cyclones originating in the Bay of Bengal hit the eastern coast of India while cyclones of the Arabian Sea move away from the west coast of India. Generally, 25% of the cyclones that develop over the Arabian Sea approach the west coast. **So, statement (3) is correct**.

**Question Number: 2**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: Geography**

**Sub- Concept:**

**Concept Field:**

**Q: 2**

Read the statement given below:

1. Aravalli is the oldest folded mountain of Indian subcontinent.
2. The Aravalli Mountain Range in southwestern India runs approximately 700 km in a south-west direction, starting near Delhi, passing through Madhya pradesh and Jharkhand, and ending in Gujarat.
3. The high court of Rajasthan appointed Central Empowered Committee revealed that 67 of 128 hills in the Aravalli region in Rajasthan had vanished in the last 50 years due to illegal Quarrying.

1. Only 1 and 2
2. Only 2 and 3
3. Only 1
4. Only 3

**Answer:** C

**Explanation:**

The Aravallis date back to millions of years when a pre-Indian sub-continent collided with the mainland Eurasian Plate. Thus, it is the oldest fold mountain of Indian Subcontinent. **So**, **statement (1) is correct**.

The Aravalli Mountain Range in Northwestern India runs approximately 692 km in a south-west direction, starting near Delhi, passing through southern Haryana and Rajasthan, and ending in Gujarat.

**Biodiversity Hotspot:** To qualify as a biodiversity hotspot, an area must meet two strict criteria:

* Contain at least 1,500 species of vascular plants found nowhere else on Earth (known as "endemic" species).
* Have lost at least 70 percent of its primary native vegetation.

**Question Number: 3**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: Polity**

**Sub- Concept:**

**Concept Field:**

**Q: 3**

Read the statement about Representation of people act:

1. It provide qualification of voters
2. It provide Delimitation of constituencies
3. It provide allocation of seats in the Parliament and the State Legislatures.

Choose the correct option from the statement given below?

1. Only 1 and 2
2. Only 2 and 3
3. Only 1 and 3
4. All 1,2 and 3

**Answer:** D

**Explanation:**

The Representation of the People Act 1950 (RPA 1950) provides for the following:

* Qualification of voters.
* Preparation of electoral rolls for the Parliamentary, Legislative Assembly and Legislative Council constituencies.
* Delimitation of constituencies.
* Allocation of seats in the Parliament and the State Legislatures
* Local authorities for purpose of elections to the State Legislative Councils (Schedule 4).

**So, statements (1), (2) and (3) are correct.**

Provisions with respect to qualification and disqualification are mentioned in the Representation of People’s Act 1951. The Act is of special significance to the smooth functioning of Indian democracy, as it checks the entry of persons with criminal background into the representative bodies.

**Question Number: 4**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: Biology**

**Sub- Concept:**

**Concept Field:**

**Q: 4**

Which of the following is the part of the Human Thorax:

1. Pleural membranes
2. Larynx
3. Rings of Cartilage
4. Intercostal muscles

Choose the correct option from the statement given below?

1. Only 1,2 and 3
2. Only 2 and 3
3. Only 1,3 and 4
4. Only 1,2,3 and 4

**Answer:** D

**Explanation:**

**The human Thorax has**

**Pleural membranes:** Contain a fluid which cushions the lungs.

**Trachea (windpipe):** This carries air down to the lungs. Mucus here traps dirt and bacteria, helping to keep the lungs clean.

**Rings of cartilage:** These keep the trachea open and allow movement of the neck

**Ribs (cut):** These protect the heart and lungs in the thorax from damage.

**Intercostal muscles:** (between the ribs) These move the rib cage up and down during breathing.

**Alveoli (air sacs):** These allow gas exchange between the lungs and the blood. Each is surrounded by a network of blood capillaries taking oxygen away.

**Diaphragm:** This muscle moves up and down causing air to rush into or out of the lungs (ventilation).

**Question Number: 5**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: Biology**

**Sub- Concept:**

**Concept Field:**

**Q: 5**

Read the statement given below:

1. Pituitary gland secret follicle stimulating hormone and luteinizing hormone
2. Hormones are chemicals released directly into the blood from glands.
3. Oestrogen causes the changes atpuberty called the secondary sexual characteristics.

Choose the correct option from the statement given.

1. Only 1 and 2
2. Only 2 and 3
3. Only 1 and 3
4. All of these

**Answer:** D

**Explanation:**

**Pituitary gland:** This controls many glands andis called the ‘master gland’. Italso produces **growth hormone** which controls growth and **antidiuretic hormone** whichcontrols the water content ofthe blood. Follicle stimulating

hormone (FSH) and luteinising hormone (LH) are also secreted here. FSH and LH are involved in the menstrual cycle.

**Adrenal glands:** These secrete adrenalinewhen the body is understress. Adrenaline increasesthe energy available.

**The ovaries (females):** These produce two hormones thatcontrol female characteristics andthe menstrual cycle. **Oestrogen** repairs the uterus lining after aperiod. **Progesterone** maintains athick uterus lining in readiness forimplantation.These hormones are producedfrom puberty to the menopause.Oestrogen causes the changes atpuberty called the secondary sexual characteristics. These include:Start of periods – menstruation, Development of breasts, Body hair developing, Widening of hip.

**Thyroid gland:** This produces the hormone **thyroxine** which controls thechemical reactions in cells. Hormones are chemicals released directly into the blood from glands. Hormones are carried in the blood to their target organs where they have an effect.

**Question Number: 6**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: Biology**

**Sub- Concept:**

**Concept Field:**

**Q: 6**

Read the statement about Homeostasis occurring in liver:

1. Hepatic vein in liver contain oxygenated blood which contain glucagon
2. The liver keeps the level of amino acids and glucose at a constant level

Choose the correct option from the statement given above?

1. Only 1
2. Only 2
3. Both of these
4. None of these

**Answer:** B

**Explanation:**

Protein cannot be stored in the body, so any extra is **deaminated** (broken down) to **ammonia** and then to **urea** in the liver. The urea is poisonous if it builds up, so it is carried in the blood to the **kidneys** for removal from the body.

**Hepatic vein (deoxygenated):** contains glucosefor respiration,amino acids forgrowth, urea tokidneys.

**The liver keeps the level of amino acids and glucose at a constant level, i.e. homeostasis. Hence statement 2 is correct.**

**Question Number: 7**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: Agriculture**

**Sub- Concept:**

**Concept Field:**

**Q: 7**

As per the International Commission on Irrigation and Drainage (ICID), how is the Second Green Revolution was different from the first Green Revolution?

1. It should focus on the needs of small and marginal farmers and not be restricted to large farmers.

2. It should aim not only to increase production but also to sustain the productivity within the limits of natural resources.

Select the correct answer using the option below.

1. Only 1
2. Only 2
3. Both of these
4. None of these

**Answer: C**

**Explanation:**

Basic ingredients of the first green revolution were: HYV seeds with superior genetics; use of chemicals - pesticides and fertilizers; and multiple cropping system supported by the use of modern farm machinery and proper irrigation system. During the period there was also

expansion of farming areas. The First Green Revolution resulted in increase in production and changed the thinking of farmers. It had a marked impact on rural employment, resulted in increase in trade and the surplus rural incomes helped development of industries. Self-sufficiency in food grains affected the planning processes and gave a boost to the national self-confidence of then emerging democracies.

**The Second Green Revolution has to be distinctly different from the first Green**

**Revolution. The emphasis should be on small and marginal farmers. Attempt should be**

**made not only to increase the production but also to sustain the productivity within the**

**limits of natural resources.** SGR should envisage integrated programmes taking care of all

aspects of agriculture from soil characteristics, matching seeds, grains, conversion to food and its marketing after value addition.

**Question Number: 8**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: Science and Technology**

**Sub- Concept:**

**Concept Field:**

**Q: 8**

Bioinformatics include which of the following?

1. Computational Biology

2. Genome sequencing

Select the correct answer from the option below:

1. Only 1
2. Only 2
3. Both
4. None

**Answer: C**

**Explanation:**

|  |
| --- |
| Department of Biotechnology started the Bioinformatics in 1987 as one of the thrust  areas of Biotechnology and the sustained support has given impetus to the development of  Bioinformatics in the country through establishing the necessary infrastructure including the  ‘Supercomputer’. Over the time being, Bioinformatics has grown world over through contribution from various areas like Physics, Mathematics, Pharma sector and with the advent of new frontier area in Biotechnology like Genomics, Proteomics etc. As a result R&D activities in the relevant areas leads to massive inflow of data, which widens the scope of Bioinformatics, therefore, considering the international developments, the scope of the Bioinformatics is broadened and with wider scope, Department of Biotechnology has designated **‘Bioinformatics’ as ‘Theoretical and Computational Biology (TCB)’.** |

**Question Number: 9**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: Geography**

**Sub- Concept:**

**Concept Field:**

**Q: 9**

Physiological Soil Drought can be caused by

1. Low atmospheric moisture

2. Poor monsoon

3. Presence of excessive salts in the soil

4. pH alterations in soil that reduce water intake by plants

Select the correct answer using the option given below.

1. Only 1 and 2
2. Only 2 and 3
3. Only 1 and 2
4. Only 3

**Answer:** D

**Explanation:**

The term drought has been classified in two broads categories.

**Soil Drought:**

It often leads to atmospheric drought; mainly resulting due to soil. If both combine, it becomes disastrous Otherwise, the struggle for the plants soil drought is more serious/ difficult than that for the atmospheric drought. More over, the water deficiency in the soil may be physical or physiological in nature.

Physical Soil Drought- In this case, there is an actual shortage of water due to limited or non-availability of water from various sources like rainfall and irrigation.

Physiological Soil Drought- **In this case, water is available in plenty in the soil but the plants growing in such** **environment can not be able to avail or absorb the water due to the physiological reasons** **such as presence of excessive salts, pH alterations etc.**

**Atmospheric Drought-** This drought occurs due to low atmospheric humidity, high wind velocity and high temperaturewhich cause a plant to lose most of its water by transpiration, thus resulting in water deficitsituations.

**Question Number: 10**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: Static G.K**

**Sub- Concept:**

**Concept Field:**

**Q: 10**

Podu cultivation system is practiced by which of the following tribes?

1. Dongaria Kondh

2. Bonda

3. Gond

Which of the statements given above are correct?

1. Only 1
2. Only 2
3. Both of these
4. Neither 1 nor 2

**Answer:** C

**Explanation:**

Shifting cultivation is an age-old practice, particularly being practised in the Eastern

Ghats. Orissa accounts for the largest area under shifting cultivation in India. Shifting cultivation is locally known as the podu cultivation.

Podu cultivation is generally on the hills: since land on the foot hills belongs to affluent people; and the valley or plain land, due to water accumulation, increases the chances of damage to crops. Based on the task force of Government of India report, more than 30,000 sq km of land (about 1/5 land surface of Orissa) is under such cultivation. Shifting cultivation is prevalent in Kalahandi, Koraput, Phulbani and other southern and western districts

**The tribal communities, viz. Kondha, Kutia Kondha, Dongaria Kondha, Lanjia Sauras,**

**Paraja, Godaba, Koya, Didayi, Bonda, Jhang and Pauri Bhuyan, Peranga and Erenga Kolha are involved in this practice. Many festivals and other such rituals revolve around the podu fields, because the tribals view podu cultivation not just as a means of their livelihood, but as a way of life.**

**Question Number: 11**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: Rural Agriculture**

**Sub- Concept:**

**Concept Field: Temples**

**Q: 11**

Consider the following about Maize crop production in India.

1. Maize is cultivated throughout the year in all states of the country.

2. It is the only crop for which no “cross hybrids” have been introduced for field trials or commercial production.

Which of the above is/are correct?

1. Only 1
2. Only 2
3. All 1, 2
4. None

**Answer: A**

**Explanation:**

The maize is cultivated throughout the year in all states of the country.

Maize can be grown in all seasons viz; Kharif (monsoon), post monsoon, Rabi (winter) and spring. The predominant maize growing states that contribute more than 80 % of the total maize

production are Andhra Pradesh (20.9 %), Karnataka (16.5 %), Rajasthan (9.9 %) etc. Maize can be grown successfully in variety of soils ranging from loamy sand to clay loam. However, soils with good organic matter content having high water holding capacity with neutral pH are considered good for higher productivity.

**Question Number: 12**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: Biology**

**Sub- Concept:**

**Concept Field:**

**Q: 12**

Consider the following about Blue green algae.

1. They contain chlorophyll.

2. They are always found in symbiotic relationships.

3. They secrete vitamins which help in the growth of an associated plant.

Select the correct answer using the codes below.

A. 1 and 2 only

B. 2 and 3 only

C. 1 and 3 only

D. 1, 2 and 3

**Answer:** C

**Solution:**

Blue green algae are a heterogeneous group of prokaryotic **photosynthetic organisms which contain chlorophyll**.They include unicellular colonial and filamentous species. They are obligate phototrophs and store cyanophcean starch. **They are non-symbiotic, free living Nitrogen fixers** which grow very well in water logged soils like in rice fields. Beside fixing atmospheric Nitrogen, **Blue-green algae secrete vitamins and growth promoting** **substances which contribute to better growth of the rice plants.**

**Question Number: 13**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: Static G.K**

**Sub- Concept:**

**Concept Field:**

**Q: 13**

Read the statement about Ramon Magsaysay awards:

1. It has been cancelled due to Corona virus pandemic this year
2. The award are named after the fifth president of U.S.A

Which of the following statement is correct?

1. Only 1
2. Only 2
3. None
4. All of these

**Answer:** A

**Explanation:**

Ramon Magsaysay awards have been cancelled this year due to the coronavirus pandemic, It is regarded as Asia’s version of the Nobel Prize. It was started in 1957. The awards are named after the **third president of the Republic of the Philippines.** The awards were traditionally given every year to individuals or organisations in Asia in **five categories:** government service; public service; community leadership; journalism, literature, and creative communication arts; and peace and international understanding. However, post 2009, the Ramon Magsaysay Award Foundation annually selects the awardees for the **field of Emergent Leadership.**

**Question Number: 14**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: Science and Technology**

**Sub- Concept:**

**Concept Field:**

**Q: 14**

**Choose the correct statement about GLUCOSE-6-phosphate Dehydrogenase (G6PD):**

1. Surat Municipal Corporation (SMC) has raised a specific COVID-19 alert for Vataliya Prajapati community.
2. The Indian Council of Medical Research (ICMR) has recommended a wider use of hydroxychloroquine (HCQ) in battle against COVID-19

Which of the following statement is correct?

1. Only 1
2. Only 2
3. None
4. All of these

**Answer:** D

**Explanation:**

|  |
| --- |
| Recently, Surat Municipal Corporation (SMC) has raised a specific COVID-19 alert for Vataliya Prajapati community whose 25% population suffers from a genetic blood disorder called G6PD deficiency. |
| COVID-19 is a huge challenge for the community as due to G6PD deficiency **some drugs such as hydroxychloroquine can result in rupturing of blood vessel, brain damage in infants and kidney failure in adults.** The Indian Council of Medical Research (ICMR) has recommended a wider use of hydroxychloroquine (HCQ) in battle against COVID-19. |

G6PD deficiency is a **genetic abnormality** that results in an **inadequate amount of glucose-6-phosphate dehydrogenase (G6PD) in the blood.** This is a very important enzyme (or protein) that regulates various biochemical reactions in the body.

**Question Number: 15**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: History**

**Sub- Concept: Modern History**

**Concept Field:**

**Q: 15**

Consider the following statements about the United Nations High Commissioner For Refugees (UNHCR) Global Trends Report:

1. IT was created in 1951 during the aftermath of second world war
2. It aimed to save lives, protecting rights and building a better future for refugees

Which of the statements given above is/are correct?

1. Only 1
2. Only 2
3. Both of these
4. None of these

**Answer:** B

**Explanation:**

|  |
| --- |
| UNHCR is a **global organization dedicated to saving lives, protecting rights and building a better future** for refugees, forcibly displaced communities and stateless people. It was **created in 1950, during the aftermath of the Second World War,** to help millions of Europeans who had fled or lost their homes. **atleast 100 million people were forced to flee their homes** in the past decade. Out of this, **40% are Children** (30-34 million) are among the displaced. **Forced displacement has almost doubled** since 2010 (41 million in 2010 vs 79.5 million in 2019). |

**Question Number: 16**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: Oceanography**

**Sub- Concept:**

**Concept Field:**

**Q: 16**

Consider the following statements about the Marine Heatwaves:

1. It can occur in summer and winter.

2. It occurs only in the Tropical regions.

3. It occurs only along the eastern coast of the continents.

1. 1 only
2. 1 and 2 only
3. 1 and 3 only
4. All of these

Which of the statements given above is/are correct?

**Answer: A**

**Explanation:**

Heatwaves can also occur in the ocean and these are known as marine heatwaves, or MHWs. These marine heatwaves, when ocean temperatures are extremely warm for an extended period of time can have significant impacts on marine ecosystems and industries.Heatwaves can happen in summer and also in winter, where they are known as “winter warm-spells”. **So, Statement 1 is correct.**

We know that heatwaves occur in the atmosphere. We are all familiar with these extended periods of excessively hot weather. However, heatwaves can also occur in the ocean and these are known as marine heatwaves, or MHWs. These marine heatwaves, when ocean temperatures are extremely warm for an extended period of time can have significant impacts on marine ecosystems and industries.

**Question Number: 17**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: Biology**

**Sub- Concept:**

**Concept Field:**

**Q: 17**

With reference to the genetic materials, consider the following statements about the differences between DNA and RNA:

1. DNA has deoxyribose sugar while RNA has ribose sugar.

2. RNA mutate at a faster rate compared to DNA.

3. DNA can be easily degradable compared to RNA.

Which of the statements given above is/are correct?

1. Only 1
2. Only 1 and 2
3. Only 3
4. Only 1 and 3

|  |
| --- |
| **Answer: B**  **Explanation:** |
| Ribose, found in RNA, is a "normal" sugar, with one oxygen atom attached to each carbon atom. Deoxyribose, found in DNA, is a modified sugar, lacking one oxygen atom (hence the name "deoxy"). **So, Statement 1 is correct.** |
| Average mutation rates in RNA viruses are estimated to be about 100 times higher than those for DNA viruses. **So, Statement 2 is correct**. |

**Summary of Differences Between DNA and RNA**

DNA contains the sugar deoxyribose, while RNA contains the sugar ribose. The only difference between ribose and deoxyribose is that ribose has one more -OH group than deoxyribose, which has -H attached to the second (2') carbon in the ring. DNA is a double-stranded molecule, while RNA is a single-stranded molecule. DNA is stable under alkaline conditions, while RNA is not stable.

**Question Number: 18**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: Polity**

**Sub- Concept:**

**Concept Field:**

**Q: 18**

Consider the following statements about the Central Vigilance Commission (CVC) in India:

1. It is a statutory body established under the Central Vigilance Commission Act, 2003 and is responsible only to the Parliament of India.

2. It shall be appointed by the President on the recommendation of a Committee consisting of the Prime Minister, the Union Minister of Home Affairs and the Leader of the Opposition in the House of the People.

Which of the statements given above are correct?

1. 1 only
2. 2 only
3. Both
4. None

|  |
| --- |
| Answer: C  Explanation: |
| Central Vigilance Commission (CVC) is an apex Indian governmental body created in 1964 to address governmental corruption. In 2003, the Parliament enacted a law conferring statutory status on the CVC. It has the status of an autonomous body, free of control from any executive authority, charged with monitoring all vigilance activity under the Central Government of India, advising various authorities in central Government organizations in planning, executing, reviewing and reforming their vigilance work. It is responsible only to the Parliament of India. So, Statement 1 is correct. |
| The Central Vigilance Commissioner and the Vigilance Commissioners shall be appointed by the President on recommendation of a Committee consisting of the Prime Minister (Chairperson), the Minister of home affairs (Member) and the Leader of the Opposition in the House of the People.So, Statement 2 is correct. |

CVC is only an advisory body. Central Government Departments are free to either accept or reject CVC's advice in corruption cases. CVC does not have adequate resources compared with number of complaints that it receives. It is a very small set up with a sanctioned staff strength of 299.[8] Whereas, it is supposed to check corruption in more than 1500 central government departments and ministries.

**Question Number: 19**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: History**

**Sub- Concept:**

**Concept Field:**

**Q: 19**

With reference to India’s struggle for independence, consider the following statements about the Pabna Peasant Uprisings:

1. The main form of struggle was that of legal resistance and there was very less violence during this uprising.

2. Bengal peasants showed complete Hindu-Muslim solidarity during this uprising.

Which of the statements given above is/are correct?

1. Both 1 and 2
2. Only 1
3. Only 2
4. None

**Answer: A**

**Explanation:**

|  |
| --- |
| The movement was nonviolent to some extent but Zamindars were killed at some places and violence did happen. **So statement 1 is correct.** |
| Bengal peasants showed complete Hindu-Muslim solidarity during this uprising. **So statement 2 is correct.**  Pabna Peasant Uprising (1873-76) was a resistance movement by the peasants (“Ryots”) against the lords of the lands in Bengal (“zamindars”) in the Yusufshahi pargana (now the Sirajganj District, Bangladesh) in Pabna. The Pabna rebellion was different from most contemporary peasant rebellions. This movement began as the peasants organised an agrarian league in May 1873 to resist the demands of the zamindars. |

**Question Number: 20**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: Environment and Ecology**

**Sub- Concept:**

**Concept Field:**

**Q: 20**

Which of the following species is/are found only in the Western Ghats of India?

1. Long-tailed Macaque

2. Nilgiri Tahr

3. Purple Frog

Select the correct answer using the code given below.

1. 1 and 2 only
2. 2 and 3 only
3. 1 and 3
4. All of these

**Answer:** B

**Explanation:**

|  |  |  |
| --- | --- | --- |
| |  | | --- | | The following species are endemic to Western Ghats of India- Lion-tailed macaque, Nilgiri tahr, Nilgiri langur, Nilgiri marten, Malabar large-spotted civet, Malabar grey hornbill, Malabar gliding frog, purple frog, Nilgiri wood pigeon, Nilgiri flycatcher, Grey-headed Bulbul, White-bellied blue robin, Rufous babbler, White-bellied treepie, Nilgiri laughingthrush, Nilgiri pipit,White-bellied blue flycatcher etc, | | The crab-eating macaque also known as the long-tailed macaque, is a cercopithecine primate native to Southeast Asia. It is referred to as the cynomolgus monkey in laboratories. It has a long history alongside humans; it has been alternately seen as an agricultural pest, sacred animal in some temples, and more recently, the subject of medical experiments. **So, Option B is correct.** | |

**Question Number: 21**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: History**

**Sub- Concept:**

**Concept Field:**

**Q: 21**

Consider the following statements about the Sufi Movement in India:

1. Amir Khusrow was a famous disciple of Niyammad-ulla-Qadiri.

2. Nasqabhandi order was popularized in India by Babur.

3. Unlike the Suharwardis, the Chishti saints did not believe in leading a life of poverty.

Which of the statements given above is/are correct?

1. Only 1
2. Only 2
3. Only 3
4. All of these

**Answer:** B

**Explanation:**

|  |
| --- |
| Amir Khusrow was a famous disciple of Nzamudin aulyia. |
| Nasqabhandi This order was founded by Bahibillah and the followers were very orthodox compared to all other orders. This order was popularized in India by Babur who was deeply devoted to Naqshbandiyya leader Khwaja Ubaidullah Ahrar. **So, Statement 2 is correct.** |
| Unlike the Chishtis, the suharwardi saints did not believe in leading a life of Poverty. They accepted the service of the state and held important posts mainly under Delhi Sultanate ruler Iltutmish. The 10th century A.D marks the important changes in the realm of ideas and beliefs in the Islamic religion - the rise of the Sufi mystic orders. The core concept of Sufi Movement is Darikh-i-Duniya / Wahad-ul-wahjud, meaning “Universal Brotherhood”. It outwardly rejected the religion and emphasized love and devotion to God and compassion towards all fellow human beings. |

**Question Number: 22**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: History**

**Sub- Concept: Environment and Ecology**

**Concept Field:**

**Q: 22**

Which of the following is/are the consequence(s) of drying of soils due to climate change?

1. Plants can absorb more carbon dioxide.

2. Microorganisms in the soil become more productive.

3. The decrease in soil pH level.

Select the correct answer using the code given below.

1. Only 2
2. Only 2 and 3
3. Only 1 and 2
4. Only 3

**Answer: B**

**Explanation:**

|  |
| --- |
| The increased microbial and root activity in the soil would entail higher CO2 partial pressure in soil air and CO2 activity in soil water, hence increased rates of plant nutrient release (e.g., K, Mg, micronutrients) from weathering of soil minerals. **So, Statement 2 is correct.** |
| Most soils would not be subject to rapid pH changes resulting from climate change. Exceptions might be found in potential acid sulphate soils, extensive in some coastal plains and estuaries, if they become subject to increasingly long dry seasons. Even though most of such soils are clays with moderate or high cation exchange capacity, the amounts of acid liberated in such soils upon |
| oxidation generally exceed this rapid buffering capacity. Therefore, pH values may temporarily reach 2.5 to 3.5 and a small part of the clay fraction may be decomposed as indicated under Processes in soils, above. This then buffers the pH generally between 3.5 and 4 in the long run. So, Statement 3 is correct. |

**Question Number: 23**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: Environment and Ecology**

**Sub- Concept:**

**Concept Field:**

**Q: 23**

Which of the following species are recently declared as the Endangered Migratory Species under the Convention on the Conservation of migratory species (CMS)?

1. Great Indian Bustard

2. Asian Elephant

3. Bengal Florican

4. Royal Bengal Tiger

Select the correct answer using the code given below.

1. Only 1 and 2
2. Only 1, 3 and 4
3. Only 1, 2 and 3
4. Only 1, 2, 3 and 4

**Answer:** C

**Explanation:**

Ten endangered species of migratory animals/birds from across the globe, including three from India **(Great Indian Bustard, Asian Elephant and Bengal Florican)**, will be included in a special global list for protection under the ‘Convention on Conservation of Migratory Species’ (CMS) — an international treaty to protect such species throughout their range countries.

Other 7 from around the world are Jaguar (proposed by Costa Rica, Argentina, Bolivia, Paraguay), Whitetip shark (Brazil), Little Bustard (EU Nations), Urial (Tajikistan, Iran, Uzbekistan), Antipodean Albatross (New Zealand, Australia, Chile), Smooth Hammerhead Shark (Brazil), and Tope Shark (EU Nations).**So, Option (c) is correct.**

**Question Number: 24**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: History**

**Sub-Concept: Modern History**

**Concept Field:**

**Q: 24**

With reference to the Higher courts in India, consider the following statements:

1. The strength of Supreme Court Judges can be increased by the Parliament of India.

2. The strength of High Court Judges will be determined by the order of the president of India.

3. President of India, by issuing an order, can direct High Courts to conduct its proceedings through video conference.

Which of the statements given above are correct?

1. 1 and 3 only
2. 1 only
3. 2 only
4. 1 and 2 only

**Answer:** D

**Explanation:**

|  |
| --- |
| The strength of Supreme Court Judges can be increased through Simple Majority of the Parliament. Lok Sabha has passed Supreme Court (Number of Judges) Amendment Bill, 2019 to increase the number of Supreme Court judges from the present 30 to 33 (excluding Chief Justice of India).**So, Statement 1 is correct.** |
| Every high court (whether exclusive or common) consists of a chief justice and such other judges as the president may from time to time deem necessary to appoint. Thus, the Constitution does not specify the strength of a high court and leaves it to the discretion of the president. Accordingly, the President determines the strength of a high court from time to time dependingupon its workload. **So, Statement 2 is correct.** |
| The Supreme Court of India invoked its power under Article 142 to validate all proceedings through video-conferencing — not only those which were to take place in future but also those which had already been conducted. Supreme court can extendent this High Court also. So, Statement 3 is not correct. |

**Question Number: 25**

**Question Type: MCQ**

**Question Difficulty Level: Medium**

**Marking: (+1, -0.5)**

**Expected time to solve: 60 seconds**

**Topic: Static G.K**

**Sub- Concept:**

**Concept Field:**

**Q: 25**

Which one of the following Bodhisattva depicted as a person wielding a flaming sword in his right hand?

1. Manjusri
2. Ksitigarbha
3. Samantabhadra
4. Vajrapani

**Answer:** A

**Explanation:**

Manjusri is described as a male Bodhisattva wielding a flaming sword in his right hand. He is known as Wenshu in China and Jampelyang in Tibet. **So, Option (a) is correct.**

In Buddhism, a bodhisattva is an enlightened being (Bodhi). The Sattva part of the word means the quality (Tva) of truth or goodness (Sat) implying equanimity. Traditionally, a bodhisattva is anyone who, motivated by great compassion, has generated Bodhicitta, which is a spontaneous wish to attain Buddhahood for the benefit of all sentient beings.

Bhodisattva is defined as someone who has essence of enlightenment. Bodhisattva refers to all who are destined to become Buddhas in this life or another life.

There are 8 important Bodhisattvas.

Avalokitesvara - He is described as holding a lotus flower. He is known as Guanshiyin Pusa in China.

Manjusri - He is described as a male Bodhisattva wielding a flaming sword in his right hand. He is known as Wenshu in China and Jampelyang in Tibet.