

Q: Consider the following statement regarding Periscope:

1. Periscopes can be constructed using a pair of flat mirrors or prisms.
2. The periscopes used in submarine uses prism.
3. The mirrors within this structure are fixed at an angle of 90°

Choose the correct option from the codes given below:

- a) 1 and 2
- b) 2 and 3
- c) 1 and 3
- d) 1, 2 and 3

Ans: a

Explanation:

- Periscopes can be constructed using a pair of flat mirrors or prisms and a rectangular hollow tube that has a viewing window at the top and bottom of the tube.
- The mirrors within this structure are fixed at an angle of 45° at the two ends of the rectangular hollow.
- A simple periscope only requires mirrors, whereas a more complicated periscope utilizes prisms rather than mirrors.
- The periscopes used in submarine applications are complex, typically requiring the use of tubes that are at least 10 meters in length to achieve a greater range of scope.

Q: Consider the following statement regarding Schengen Visa and Schengen area:

1. Switzerland, Iceland, and Norway are inside the Schengen Area.
2. The Schengen Area is a group of 27 European nations that have abolished their internal borders.
3. Schengen Visa is an official document mandatory for some non-Europeans to travel to all the 27 European nations.

Choose the correct option from the codes given below:

- a) 1 and 2
- b) 2 and 3
- c) 1 and 3
- d) 1, 2 and 3

Ans: b

Explanation:

- Schengen Visa is an official document mandatory for some non-Europeans to travel to all the 27 countries which are part of the Schengen area.
- Once granted, this visa allows the traveller to cross the borders of the other member-states without going through identity checks at the border.
- The Schengen Area, or Schengen Countries Zone, is a group of 27 European nations that have abolished their internal borders, for the free and unrestricted movement of people.
- Switzerland, Iceland, and Norway are not in the EU but are inside of the Schengen Area.

Q: Consider the following statement regarding Money Mule:

1. It is someone who transfers or moves illegally acquired money on behalf of someone else.
2. It adds layers of distance between crime victims and criminals.

Choose the correct option from the codes given below:

- a) 1 Only
- b) 2 Only
- c) 1 and 2
- d) None of the above

Ans: c

Explanation:

- A money mule is someone who transfers or moves illegally acquired money on behalf of someone else.
- Criminals recruit money mules to help launder proceeds derived from online scams and frauds or crimes like human trafficking and drug trafficking.
- Money mules add layers of distance between crime victims and criminals, which makes it harder for law enforcement to accurately trace money trails.
- Money mules can move funds in various ways, including through bank accounts, cashier's checks, virtual currency, prepaid debit cards, or money service businesses.

Q: Consider the following statement regarding Brucellosis Disease:

1. It is a bacterial infection that spreads from animals to people.

2. It affects people of all ages and both sexes.
3. It is caused by various Brucella species, which mainly infect cattle, swine, goats, sheep and dogs.

Choose the correct option from the codes given below:

- a) 1 and 2
- b) 2 and 3
- c) 1 and 3
- d) 1, 2 and 3

Ans: d

Explanation:

- Brucellosis is a bacterial infection that spreads from animals to people.
- It is caused by various Brucella species, which mainly infect cattle, swine, goats, sheep and dogs.
- Worldwide, Brucella melitensis is the most prevalent species causing human brucellosis.
- Brucellosis is found globally and is a reportable disease in most countries.
- It affects people of all ages and both sexes. However, Person-to-person transmission is rare.

Q: Consider the following statement regarding E-Way Bill:

1. It contains details of the goods, the consignor, the recipient and the transporter.
2. It can be electronically generated through the Goods and Services Tax Network (GSTN).
3. It is a permit needed for only inter-state transportation of goods worth more than Rs. 1,00,000

Choose the correct option from the codes given below:

- a) 1 and 2
- b) 2 and 3
- c) 1 and 3
- d) 1, 2 and 3

Ans: a

Explanation:

- An e-way bill, short form for electronic way bill, is a permit needed for inter-state and intra-state transportation of goods worth more than Rs. 50,000.
- It contains details of the goods, the consignor, the recipient and the transporter.
- It can be electronically generated through the Goods and Services Tax Network (GSTN).
- When an e-way bill is generated, a unique E-way Bill Number (EBN) is allocated and is available to the supplier, recipient, and the transporter.
- Working:
- E-way bill must be raised before the goods are shipped and should include details of the goods, their consignor, recipient and transporter.