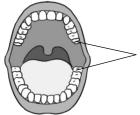
ii. Write the correct co-relation: Insulin : diabetes :: Interferon :iii. To which class does bat belong?	arks: 40				
evolution. a. Human hand b. Appendix c. Ear muscles d. Tail-bone ii. Type of sexual reproduction is	Q.1. (A) Write the correct alternative. [5]				
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Insulin : diabetes :: Interferon : iii. To which class does bat belong?	To take a selfie on the road is an invitation for an accident.				
Insulin : diabetes :: Interferon : iii. To which class does bat belong?	Write the correct co-relation:				
	To which class does bat belong?				
iv. Match the correct pair:					
Column A Column B	1				
(1) Forest Conservation Act (a) 1986	1				
(b) 1980	1				
(c) 1970	1				

v. Write the name of indicated part in diagram of Human jaw:



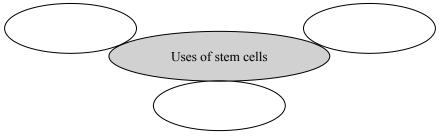
Q.2. (A) Give scientific reasons. (Any two)

i. Sometimes higher plants and animals too perform anaerobic respiration.

[4]

[15]

- ii. It is absolutely necessary to control the fission reaction in nuclear power plant.
- iii. Flower is structural unit of sexual reproduction in plants.
- (B) Answer the following questions. (Any three) [6]
- i. Write a short note on Environmental Conservation.
- ii. Distinguish between Chordates and Non-chordates.
- iii. Write the correct answer in blank circles.



- iv. Write down any two objectives of disaster management.
- v. What are the benefits of mixing ethanol with petrol and diesel?

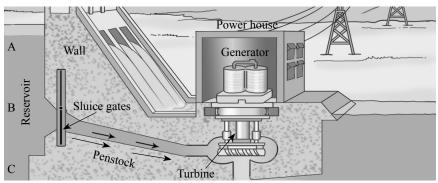
Q.3. Answer the following questions. (Any five)

- i. Write Darwin's theory of natural selection.
- ii. Complete the following chart:

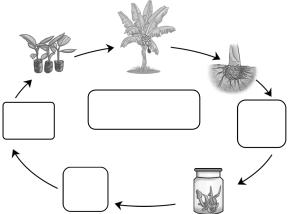
Sr. No.	Proteins	Name of the Organs
1.	Melanin, Keratin	
2.		Pancreas
3.	Haemoglobin, antibodies	

iii. Write the factors affecting environment.

iv. Answer the following questions from figure:



- a. With reference to point B, Potential energy of how much water reservoir in the dam will be converted into kinetic energy?
- b. What will be the effect on electricity generation, if the channel taking water to turbine starts at point A?
- c. What will be the effect on electricity generation, if the channel taking water to turbine starts at point C?
- v. Cockroach, Frog, Sparrow, Starfish, from these animals which can regenerate its broken body part?
- vi. Complete the diagram showing various processes in tissue culture.



- vii. Which fuels are obtained from biomass?
- viii Complete the following passage by using appropriate words given in brackets:

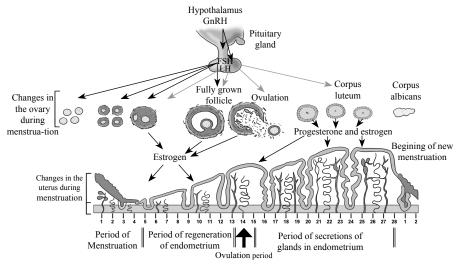
(Delhi, 12, 2005, army, National Disaster, rescue work, State Reserve Police, 2015)

National Disaster Response Force has been established as per the Disaster Management Act, _____ Divisions of this force are working in army. Overall, _____ divisions are working in the country. Its headquarter is in _____ and it is in action all over the country with the help of _____. In Maharashtra, _____ Response Force is in action through State Reserve Police Force. Personnel of this force have substantial contribution in _____ in disasters like cyclones, cliff-sliding, building collapse, etc.

[5]

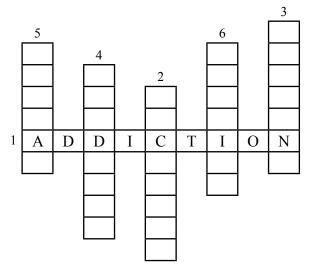
Q.4. Answer any one of the following questions.

i. Answer the following questions by observing the diagram of menstrual cycle:



- a. What is the period of menstruation?
- b. On which day does ovulation occur during menstrual cycle?
- c. In menstrual cycle which reproductive organs undergo changes?
- d. Which period is said to be period of regeneration of endometrium?
- e. Which period is said to be period of secretions of glands in endometrium?

ii. Solve the following crossword:



- 1. Continuous consumption of alcoholic and tobacco materials.
- 2. This app may cause the cyber crimes.
- 3. A remedy to resolve stress.
- 4. Requirement for strees free life.
- 5. Various factors affect ______ health.
- 6. Art of preparing food items.
