

BIOLOGY

Time : 3 hrs.]

OCTOBER - 2014

[Marks : 70

SECTION - I**BOTANY**

Q. 1. Select and write the most appropriate answer from the given alternatives for each sub-question :

[7]

- (i) Which one of the following is true pleiotropic gene ?
(a) Hb^A (b) Hb^S (c) Hb^D (d) Hb^P
- (ii) c-DNA means _____
(a) coiled DNA (b) cytoplasmic DNA
(c) complementary DNA (d) circular DNA
- (iii) Wheat variety 'Atlas 66' is improved for _____
(a) high proteins (b) high carbohydrates
(c) high fats (d) high vitamins
- (iv) Erythromycin is obtained from _____
(a) *Penicillium chrysogenum* (b) *Streptomyces griseus*
(c) *Gibberella fujikuroi* (d) *Streptomyces erythreus*
- (v) Which one of the following is C_4 plant?
(a) Sunflower (b) Soyabean (c) Sugarcane (d) Spinach
- (vi) The respiratory quotient (R.Q.) of carbohydrate is
(a) 0.7 (b) 1 (c) 0.9 (d) 0.1
- (vii) The depletion of ozone layer is due to
(a) CO_2 (b) CO (c) CH_4 (d) CFCs

Q.2.(A) Answer in 'one' sentence each :

(6)[12]

- (i) From which microorganism is vinegar obtained ?
- (ii) Which is the first CO_2 acceptor in C_3 pathway ?
- (iii) What is fermentation ?
- (iv) What is bioaccumulation ?
- (v) Which bacteria convert organic acids into methane ?
- (vi) Which greenhouse gas is mainly responsible for global warming ?

Q.2.(B) Give a neat and labelled sketch of the germinating angiospermic pollen grain.

(2)

Q.2.(C) Answer the following (Any TWO) :

(4)

- (i) Explain different biosafety issues which may arise due to genetically modified (GM) organisms.
- (ii) What are gibberellins ? Give the applications of gibberellins.
- (iii) Describe the structure of ATP.
- (iv) Suggest measures to conserve the forests.

Q.3.(A) Attempt the following (Any TWO) :

(6)[9]

- (i) Give the names and functions of enzymes involved in lactose metabolism in *E. Coli*.
- (ii) Give the applications of PCR technique.
- (iii) Explain selective breeding. Give any 'two' examples and their nutrients obtained by selective breeding.

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