Model Question Paper

Botony-Plant physiology - Part III

12th Standard

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|-------|---|---------|---|----------|-----------|
| | Biology | Reg.No. | : | | |
| 1. | Answer all the questions. | | | | |
| | I.Use blue pen only. | | | | |
| | II.Question number 19 is compulsory. | | | | |
| Tim | ne : 01:00:00 Hrs | | | Total Ma | |
| 1\ | Part-A | | | 5 | 5 x 1 = 5 |
| 1) | Which of the following is a 5C compound? | | | | |
| | (a) Glucose (b) Fructose (c) phosphoglyceric acid (d) RuBP | | | | |
| 2) | In C_3 plants light reactions and dark reactions occur in | | | | |
| | (a) bundle sheath cells (b) mesophyll cells (c) epidermal cells (d) vascular cells | | | | |
| 3) | In C_3 pathway acceptor molecule of CO_2 is | | | | |
| | (a) phosphoenol pyruvate (b) RuBP (c) PGA (d) DHAP | | | | |
| 4) | Which of the following is not a C_4 plant? | | | | |
| | (a) Maize (b) Tribulus (c) Amaranthus (d) Wheat | | | | |
| 5) | Vanda plant is a/an | | | | |
| | (a) total parasite (b) partial parasite (c) epiphyte (d) saprophyte | | | | |
| | Part-B | | | 5> | x 3 = 15 |
| 6) | Define chemosynthesis | | | | |
| 7) | Define respiration. | | | | |
| 8) | What the overall reaction of glycolysis. | | | | |
| 9) | Write is the function of aldolase in the process of glycolsis? | | | | |
| 10) | What is krebs cycle? | | | | |
| | Part-C | | | 5> | x 5 = 25 |
| | Write Ganong's respiroscope experiment with diagram. | | | | |
| | Write the significance of pentose phosphate pathway. | | | | |
| | Write short notes on anaerobic respiration | | | | |
| | Define respiration. What the overall reaction of glycolysis. Write is the function of aldolase in the process of glycolsis? What is krebs cycle? Part-C Write Ganong's respiroscope experiment with diagram. Write the significance of pentose phosphate pathway. Write short notes on anaerobic respiration Explain respiratory quotient for carbohydrate, organic acid and fatty acid. What is fermentation? Explain? Part-D Describe the sequences of reactions of krebs cycle. | | | | |
| 15) | What is fermentation? Explain? | | | | |
| • • • | Part-D | | | 4 x : | 10 = 40 |
| | Describe the sequences of reactions of krebs cycle. | | | | |
| | Explain peritose priospriate patriway. | | | | |
| | Write an essay on auxins and gibberellins with their physiological effects. | | | | |
| 19) | Write an account on cytokinin,ethylene and abscisic acid with their physiological effects. (OR) | | | | |
| | b) Write an account on photoperiodism and vernalization. | | | | |
| | -/ Write an account on photoperiodism and vernalization. | | | | |
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