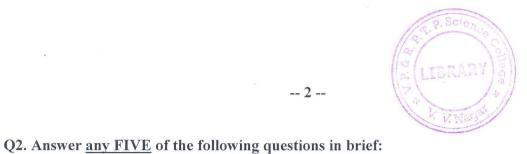
V.P. &R.P.T.P.SCIENCE COLLEGE

B. Sc. (Sem-5) Examination

Subject: BOTANY Paper: US05CBOT06 (PLANT PHYSIOLOGY)

| Date: 08/10/2018 (Monday) Time: 10-00A.M. to 12-00 N | , NOON. | | Max. Marks: 50 |
|---|----------------------|--|--|
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| | | | |
| | | | |
| Q1. Choose an appropriate | answer for the follo | wing multiple choic | e questions: (10x1=10) |
| | | | |
| (i) Plant hormones are | | latora (a) Phytohorm | nones (d) All of these |
| (a) Olowill lactor | ts (b) Olowin regu | | iones (u) An or mese |
| (::) | | | |
| (ii) is used on (a) GA | (b) Auxin | (c)Cytokinins | (d) None of these |
| (4) 0/1 | (0) / 10,111 | (c)Cytokiiniis | (a) Home of mose |
| | | | * · · · |
| (iii) Who suggested the | | | |
| (a) Garner&Alla | rd (b) Hammer | (c) Bonner | (d) All of these |
| | | | |
| (iv) The pigment that | control flowering is | known as: | |
| (a)Phytochrome | (b) Cytochrome | (c) Chlorophyll | (d) None of these |
| | | | |
| (v) Who proposed the | protein model of cr | oss linking? | and when preventioned and the strength and the strength of the |
| | (b) Allard | (c) Levitt | (d) None of these |
| | | | |
| (vi) Stress caused by I | athoran called | and a second | ана "Али инструмите слова с население политичнати на селотори. 2 — 2 — 2 с 4 м. – как на селотори с политичнати на селотори с население на селотори с население на селотори на |
| (vi) Stress caused by j (a) Biotic | | (c) Osmotic | (d) None of these |
| (4) Diotio | (0) 1101010 | | (u) Hone of these |
| | | | |
| (vii) Phytogerontology | | | |
| (a) Senescence | (b)Vernalization | (c)Dormancy | (d) None of these |
| | | | , |
| (viii)Which one of the | | | |
| (a) GA | (b) Auxin | (c) Ethylene | (d) Cytokinin |
| | | | |





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List out the physiological effects of kinetin on plants.

(i)

| (ii) | Define 'Growth hormone' | |
|-------------|--|--------------|
| (iii) | Enumerate the uses of application of plant growth hormones in agriculture. | |
| (iv) | Write a brief note on short day plants. | |
| (v) | Give examples of DNP. | |
| (vi) | Differentiate between stress and strain. | |
| (vii) | Write in brief about effect of stress on cell membrane. | |
| (viii) | What is abscission and state its importance in plant life. | |
| | | |
| Q3. Write a | a note on Auxins. OR | (08) |
| Q3. Discus | s: (a) Role of kinetin in senescence | (05) (03) |
| Q4. Write i | in detail about Phytochrome. OR | (08) |
| / | inguish between SDP, LDP and DNP. | (04) (04) |
| Q5. Write a | a note on types of Abiotic environmental stress. | (08) |
| Q5. Discus | <u>OR</u> s: Write about stress resistant mechanism. | (08) |
| | | (05) (03) |
| 100 DEL 22 | te in detail about theories of senescence. | (05) |
| (b) Wri | te the biological significance of senescence. | (03) |

(5x2=10)