

**QP Code: 101017**

**Reg. No.: .....**

**First Year BCVT Degree Regular/Supplementary Examinations  
August 2019**

**Basic Sciences**

**(2014 Scheme)**

**Time: 3 Hours**

**Max Marks: 100**

- Answer all questions
- Draw diagrams wherever necessary

**Essay**

**(20)**

1. What is cardiac cycle. Describe the phases in detail with diagram

**Short notes**

**(10x8=80)**

2. SA node.
3. Explain the heart sounds and describe systolic murmur in detail.
4. Explain the direct and indirect methods of BP measurements.
5. The anatomical features of atrioventricular valves.
6. Explain pulmonary circulation with a flow chart.
7. Discuss on the pathophysiology of mitral valve disease.
8. Heart failure.
9. Discuss on ionic and non-ionic contrast agents.
10. Explain the different techniques in sterilization.
11. Explain the stages of sepsis and its causes

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