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| **GRADE: VIII**  **Date:** | **CPE 2 (2023-24)**  **Answer key** | **Marks: 20**  **Time: 50 minutes** |

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| **Q.No.** | **Questions** | **Mark** |
|  | **Section A** |  |
|  | **CHOOSE THE CORRECT ANSWER** |  |
| 1 | b) Methane | 1 |
| 2 | c) Thyroid gland | 1 |
|  | **Fill in the blanks** |  |
| 3 | The sea | 1 |
| 4 | Antibiotics | 1 |
| 5 | Contact force | 1 |
| 6 | Ovum /egg, ovary | 1 |
|  | **NAME THE FOLLOWING** |  |
| 7 | Penicillin | 1 |
| 8 | Fractional distillation | 1 |
| 9 | Islets of Langerhans | 1 |
| 10 | Net force | 1 |
|  | **SHORT ANSWER QUESTION** |  |
| 11 | Push or pull on an object.  Force can change the direction of a moving object. Force can stop a moving object.  There are two types of forces contact and non-contact forces. Force that acts on an object by coming in contact with them are called contact forces. Forces that act on an object without coming in contact with them are called non contact forces | 3 |
| 12 | Nitrogen is the most important components in living organisms.Our atmosphere contain around 78% nitrogen.  Atmospheric nitrogen cannot be used directly by plants and animals.The atmospheric nitrogen needs to get converted to nitrogenous compounds by microorganisms and this process is known as nitrogen fixation. Plants such as beans, peas and soya beans ( leguminous plants) have a bacteria living in their root nodules. Rhizhobium ( bacteria) living in the roots of leguminous plants converts the atmospheric nitrogen into ammonia.Some nitrogen-fixing bacteria converts ammonia to nitrites and then nitrates. | 3 |
|  | **LONG ANSWER QUESTION** |  |
| 13 | Adolescents become capable of reproduction when their testes and ovaries begin to produce gametes.  The reproductive phase of females starts at about 10-13 years of age and continues until 45-50 years of age.  The ova (egg) matures ad is released by one of the ovaries once in about 28 to 30 days. This is known as ovulation.  During this period, the walls of the uterus becomes thick so as to receive the egg.  If the egg is fertilized and begins to develop, this results in pregnancy.  If the fertilization does not occur, the egg and the thickened lining of the uterus , along with its blood vessels, are shed. This causes bleeding for 4-6 days. This is known as menstruation or a period.  The regular monthly cycle of egg maturation and release , along with changes in the uterus wall is known as menstrual cycle.  The first menstrual flow begins at puberty and is termed as menarche.  The menstrual cycle gradually stops by the age of 45-55. The stoppage of menstruation is termed as menopause. | 4 |