SET 2 **MODEL QUESTION PAPER** KEY BS-7/2

SECOND TERM SUMMATIVE ASSESSMENT 2026-27

BASIC SCIENCE – ANSWER KEY & SCORING INDICATORS

Class : 7 **Time : 2 Hrs 15 Minutes**

Instructions to the Teacher

- The scores given are suggestive. Accept all relevant answers in the learner's own words.
- Questions 3 and 4 have internal choice; evaluate the part attempted.
- Find the percentage of the total score secured and award the grade using the table below.

Score percentage	Grade
80 – 100	A – Outstanding
60 – 79	B – Very Good
40 – 59	C – Good
30 – 39	D – Satisfactory
Below 30	E – Needs Improvement

1 Digestion and teeth

a)	C. Small intestine	**1**
b)	A. Salivary glands B. Bile C. Pancreas D. Stomach (gastric glands)	**2**
c)	Milk teeth: 20, begin to appear at about six months, fall off. Permanent teeth: 32, begin to appear at about six years, do not grow again if lost.	**2**

2 Electric circuit

a)	Connect the bulb to the battery with wires, leaving a gap between two wire ends. Place the material in the gap. If the bulb glows, the material is a conductor. If it does not glow, it is an insulator.	**2**
b)	D. Statement and reason are correct.	**1**
c)	Impure water conducts electricity. Touching a switch with wet hands can give an electric shock.	**1**

3 (A) Light

a)	Transparent: glass slab, clear water Translucent: butter paper, frosted glass Opaque: cardboard, wooden plank	**2**

www.educationobserver.com

b)	A. 3 B. 5 C. 30° D. 7	**2**
c)	Kaleidoscope	**1**

3 (B) Reflection

a)	Lateral inversion. Drivers of vehicles in front see the word correctly as AMBULANCE in their rear-view mirrors and give way.	**2**
b)	B. 35° (angle of reflection = angle of incidence)	**1**
c)	Regular reflection: from smooth, polished surfaces; reflected rays are parallel; clear image is formed (plane mirror, still water). Diffused reflection: from rough surfaces; reflected rays scatter; no clear image (paper, wall).	**2**

4 (A) Respiration

a)	No. Inhaled air contains nitrogen, oxygen, a little carbon dioxide and water vapour. Exhaled air has less oxygen and more carbon dioxide and water vapour.	**2**
b)	Hairs and mucus in the nose trap dust and germs; air is warmed and moistened before reaching the lungs.	**2**
c)	A. Asthma	**1**

4 (B) Teeth

a)	Bacteria act on food particles left in the mouth and produce acids. The acids slowly dissolve the enamel and cause decay.	**2**
b)	Brush twice a day; rinse the mouth after eating; avoid too many sweets and sticky food; regular dental check-up (any two).	**2**
c)	Canines. A lion is a flesh eater and uses canines to tear flesh.	**1**

5 Heat

a)	On heating, the metal lid expands more than the glass bottle, so the lid becomes loose.	**2**
b)	Good conductors: aluminium, copper, iron, silver Poor conductors: wood, plastic, cotton cloth, bakelite	**2**
c)	Wood and bakelite are poor conductors of heat, so the handles do not become hot.	**1**

6 Circulatory system

a)	B. Pericardium	**1**

www.educationobserver.com

b)	A. Thick, elastic walls; carry blood away from the heart B. Thin walls with valves; carry blood to the heart C. Very thin walls; exchange of substances between blood and cells	**3**
c)	Pulse shows the heartbeat / rate at which the heart pumps blood. It can be felt at the wrist and the neck.	**2**

*** * * * ***

www.educationobserver.com