

බස්නාහිර පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව
மேல் மாகாணக் கல்வித் திணைக்களம்
Department of Education - Western Province

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වර්ෂ අවසාන ඇගයීම
ஆண்டிறுதி மதிப்பீடு - 2019
Year End Evaluation

ශ්‍රේණිය } 09
தரம் }
Grade }

විෂයය }
பாடம் } Science
Subject }

පත්‍රය }
வினாத்தாள் } I, II
Paper }

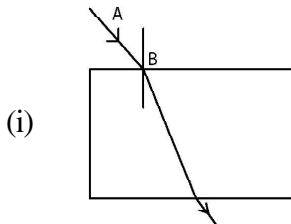
Answer Sheet

Part - I

- | | | | |
|-------|--------|--------|--------|
| (1) 4 | (6) 2 | (11) 3 | (16) 3 |
| (2) 4 | (7) 4 | (12) 2 | (17) 4 |
| (3) 2 | (8) 1 | (13) 1 | (18) 4 |
| (4) 1 | (9) 1 | (14) 2 | (19) 4 |
| (5) 1 | (10) 3 | (15) 3 | (20) 3 |
- (40 marks)

Part - II

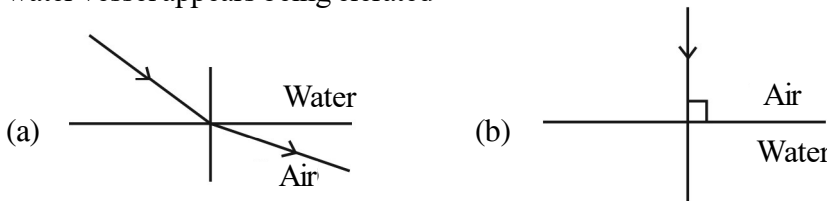
(01)



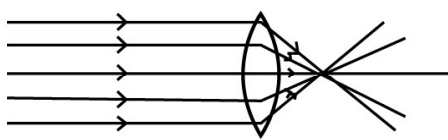
(i) (2 marks)

(ii) For 2 answer like Mirage, Rainbow, Object looking slanted when in a water vessel, base of a water vessel appears being elevated (2 marks)

(iii)



(iv)



The point in which all the parallel rays incident on the convex lens are collected in front of the lens. (2 marks)

(v) A Long sighted ness (1 mark)

B Convex lens (1 mark)

C Near Objects (1 mark)

(vi) All incident ray, reflected ray and the normal are in the same plane.

Magnitudes of both angle of incidence and the angle of reflection are same (equal)

(vii) a. choroid

b. ciliary muscles

c. Iris (3 marks)

- (02) (i) A Left Atrium
 B Inferior venacava
 C Pulmonary Vens
 D Left Ventricle (2 marks)
- (ii) Between the left atrium and the left ventricle (1 mark)
- (iii) Aorta (1 mark)
- (iv) (a) Pulmonary Artery (1 mark)
 (b) To resist the big pressure created when pumping blood through the arteries(1 mark)
- (v) (a) Destroy pathogens
 (b) Help in blood clotting (2 marks)
- (vi) (a) Blood plasma
 (b) Red blood cell or Heamoglobin
 (c) Blood plasma (3 marks)
- (11 Total marks)**
- (03) (i) A force has both a magnitude and a direction (2 marks)
- (ii) An answer like time, distance, speed. (1 mark)
- (iii) The point where the force acts on. (1 mark)
- (iv) Newton (1 mark)
- (v) Normal force acting on the object Area in which the force is applied. (2 marks)
- (vi) Pressure = 300 / Area in which the force is a applied
 $150 = 300/A$
 $A = 300/150 = 2m^2$ (2 marks)
- (vii) As ice is liquidifred to the large pressure created on ice, can slip easily. (2 marks)
- (11 Total marks)**
- (04) (i) Wild fire, Flood, Droughts. (1 mark)
- (ii) By flowing of wind towards a low pressure area created in the atmosphere. (2 marks)
- (iii) East (1 mark)
- (iv) CO₂, CH₄, SO₂, O₃, CFC, NO₂ (1 mark)
- (v) Earth quakes on sea bed, volcanic eruptions on sea landslides on sea bed, falling of large meteories to the sea. (2 marks)
- (vi) Coral reefs, mangrore plants, seashore plants. (1 mark)
- (vii) Due to movement of ground plates (tectonic plates) which makes the crust. (1 mark)
- (viii) Nuclear experiments on the ground, Diggring the ground to higher depths, construction of very large buildings etc. (1 mark)
- (11 Total marks)**

- (05) (A) (i) a) Lever
 b) Wheel and axle
 c) Lever
 d) Lever (2 marks)
- (ii) For correct examples. (2 marks)
- (iii) (a) 3 (1 mark)
 (b) 4 (1 mark)
 (c) 75% (1 mark)
- (B) (i) higher (1 mark)
 The depth in which the hydrometer immersed in the liquid A is less it in water. (2 marks)
- (ii) C (1 mark)
- (11 Total marks)**
- (06) (i) Grbberilin, Cytokinin (2 marks)
 (ii) Indol Acetic Acid (IAA) (1 mark)
 (iii) Auxin Secreted by the shoot apex inhibits the growth of lateral buds. There fore when the shoot apex is removed that effect stops and later buds will grow developing to lateral branches. (1 mark)
 (iv) Periodic movements (1 mark)
 (v) (A) Movement in ‘ Kathuru murunga’
 Movement in Mimosa (2 marks)
 (B) Pulvinus (1 mark)
 (vi) Balsom like non-woody plants need to have cells frlled with water to keep their stem erect.
 (vii) Shoot apex shows negative geotropism (1 mark)
- (11 Total marks)**
- (07) (i) Forests, Grasslands, Mangrove environment, Seashore like 2 answers. (2 marks)
 (ii) Industrial (2 marks)
 (iii) Animal husbandry (1 mark)
 (iv) Damana (1 mark)
 (v) Dry-mixed Evergreen forests (Monsooh Forests) (2 marks)
 (vi) Garbage, Environmental pollution (1 mark)
 (vii) Yes (1 mark)
 For answers like, avoid leasing of green house gases evolving in burning fossil fuel. (2 marks)
- (11 Total marks)**