Divisional Public School & College Sahiwal (Sub Campus Chichawatni) 6Th Revision Test -2020-21 X- Physics-Time: 10 min Objective. Marks:10 Name: Section: Roll No: Note: Cutting, Overwriting, use of ink remover & lead pencil is not allowed. Q.1: Choose the correct option. 10 The snell law is (i) Answer (A) n =sini/sinr (B) n=sinr/sini (C) n= sinr(D) n =sini **B** (C) (D) The critical angle of glass is (ii) 42° $0^{\rm o}$ (B) 45° (A) 90° (D) (B) (C) (D) (A) The index of ethyl alcohol is (iii) (A) 2.42 (B) 2.21 (C) 1.31 (D) 1.36 B 0 (A) 0 In convex mirror focus is (iv) In front of Under the (A) On the mirror (B) Behinde the mirror (D) **B** (C) (D) mirror mirror If p=30,q=-10cm, then magnification will be (v) (A) (B) 3/1(C) 20 (D) 40 **B** 0 (A) (D) (vi) The principal focus of concave mirror is None of (D) (A) Real (B) Virtual (C) Both A and B B © (A) (D) these Which of the following quantities is not changed during refraction (vii) Wavelength (A) Direction (B) Speed (C) Frequency (D) **B** 0 (D) (viii) Image formed by a convex lens on a screen Real, inverted Real, inverted, and Virtual,upright,and Virtual, upright (B) (A) (D) and (A) **B** 0 diminished diminished and magnified magnified The focus of concave lens is? (ix) None of Virtual Both A and B (D) (A) (B) Real **B** (C) **(** (A) these Dispersion of light is due to (x) Refractive Reflection (B) Diffraction (C) Refraction (A) (D) (A) **B** (C) (D) index Divisional Public School & College Sahiwal (Sub Campus Chichawatni) Time: 70 min 6Th Revision Test -2020-21 X- Physics-III Subjective. Marks:40 Q.2. Write down short answers $(15 \times 2 = 30)$ Explain concave mirror and convex mirror with (ii). Define critical angle? diagram? What is spherical mirror? (iv). What is meant by power of lens?write its unit? (iii). Write the laws of refraction? What state snell's law and write its formula? (v). (vi). Find the critical angle of water if angle is 90° the (vii). (viii) Under what conditions will a converging lens foem a refractive index of water is 1.33 and that of air is 1? virtual image? Write conditions for total internal reflaction?? Define principle axis and focal length? (ix). (x). Define mirror formula? How does the thickness of lens effect its focal length? (xi). (xii). Long Questions.

2: (a) What is total internal reflection explain with diagram?

1: (a) Explain refraction through prism.?

object .where must the lens be placed?

(i).

(b) An object 10cm infront of convex mirror forms image of 5cm behinde the mirror what is its focal length?

(b) A concaves lens of focal length 6 cm is to be used to form a virtual image three times the size of