



(2)

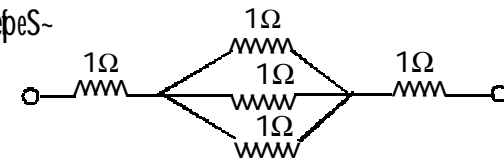
- (v) Explain how does a sitting doll sit up even when it is made to lie down?  
yell' ves Jeeueer iegll' Uee kaæs eluešives hej Yeer Jen yell' peeler nww kel'leell'
- (vi) Differentiate between a primary and a secondary cell.  
ŃeeLeet'ekaa' Deejj eE'leed'ekaa' mesre cab'el'leYeeo' kaæp'eS~
- (vii) Describe the colour codes used to denote the value of a resistor.  
ekæameer Ńeelejj' eš'e kaæ' ceeve oMeeet'es kaæ' elueS' Ńeelees'e cell'ueeUe' preeves Jeeues j'lie kaæš' kaæ' JeCee'e kaæp'eS~
- (viii) Stainless steel cooking pans are made with an extra copper bottom. Explain.  
Kee>ee hokæaves Jeeues mš'ueeme mš'uee kaæ' yell'ekell'kaær leuuee hej leej'ee ueiee eb'Uee peeler nww kel'leell'
- (ix) Define kitowatt-hour.  
ekæaueeš'eš'-leš'e kaæs heejj' Yeeek'e'e kaæp'eS~
- (x) What is the value of current flowing through a filament of a 60W bulb when it is connected to a 220V A.C. source?  
peye ekæameer 60W kaæ' yeuye kaæs 220 Jeeuš' Jeeues heejj' Jeele' Oeej' e cee'e mespeell' e peeler nww leesGmekeæ' lell'eg'cell'yervesJeeuee Oeej' e kaæ' ceeve kaæ'ee neiee?

Unit-I / FkaæF-I

- 2. (a) Distinguish between centripetal and centrifugal forces. Discuss a household appliance based on the idea of centripetal force. 5

(3)

- Deel'ekæivõ Deejj' Dehekeivõ yeueell'cell'keleee Dev'lejj' nww Dehekeivõ yeue kaær DeleOeej' Cee hej DeeOeejj' le ekæameer lejj'sret Ghekaaj' Ce kaær el'leJeeveee kaæp'eS~
  - (b) Write a note on source of colours. 2 ½  
j'lieeb' kaæ' cee'e hej eš'heCeer elueeK'eS~
  - 3. (a) Explain screw and pulleys. 4  
m>eš' S'Jeced' hej'eeer kaæs mecePeeFS~
  - (b) Explain the working of vacuum cleaner. 3 ½  
Jokæ'leete kaæ'eev'ej' kaær kaæ'Ue& ŃeeCeeueer kaæs mecePeeFS~
- Unit-II / FkaæF-II
- 4. (a) Explain the principle and construction of an automatic iron. 4 ½  
m'JeeUeeuele Fm'lejj'er kaæ' e'neæ'ev'le S'Jeced' j'Ueevee kaæ' JeCee'e kaæp'eS~
  - (b) Calculate the equivalent resistance of the following electrical circuit. 3  
eš'ecveeueeKeele Jee'hejj' he'le kaæ' leg'Ue Ńeelejj' eš'e kaær ieCeevee kaæp'eS~



- 5. (a) Define the units used for the measurement of charge and current. How charge and current are related to each other? 4  
Dee'lell'e S'Jeced' Oeej' e kaæ' ceeS'ekæell'kaæs heejj' Yeeek'e'e kaæp'eS~  
Dee'lell'e le'lee Oeej' e Deeheme cell'ekæame Ńeekaæj' mecyed'ole n&