

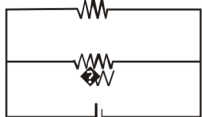
VITEEE 2017 Question Paper

Vellore Institute of Technology Engineering Entrance Examination

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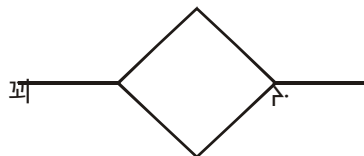
- This question paper contains total 125 questions divided into four parts :
Part I : Physics Q. No - 1 to 40
Part II : Chemistry Q. No - 41 to 80
Part III : Mathematics Q. No - 81 to 120
Part IV : English Q. No - 121 to 125
- All questions are multiple choice questions with four options, only one of them is correct.
- For each correct response, the candidate will get 1 mark.
- There is no negative marking for the wrong answer.
- The test is of 2½ hours duration.

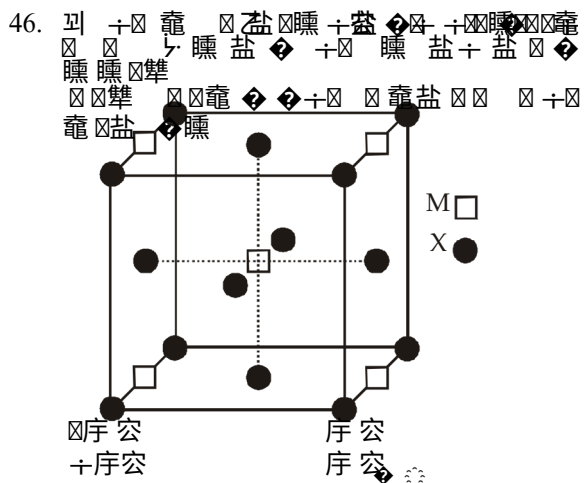
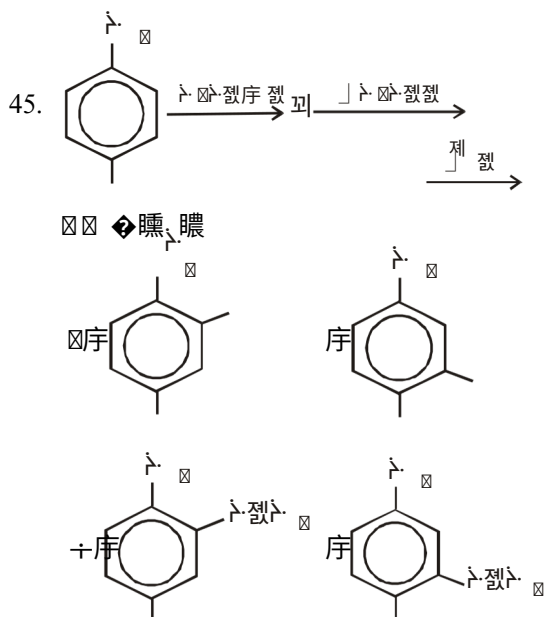
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$$\begin{array}{ll} \boxtimes | = \sqrt{\text{龜}} \sqrt{\text{雀}} & | = \sqrt{\text{龜}} \sqrt{\text{雀}} \\ \div | = \frac{\quad}{\sqrt{\text{龜}} \sqrt{\text{雀}}} & | = \frac{\text{雀}}{\sqrt{\text{龜}} \sqrt{\text{雀}}} \end{array}$$

- [illegible]





47. 𩇛 𩇜 𩇝 𩇞 𩇟 𩇠 𩇡 𩇢 𩇣 𩇤 𩇥 𩇦 𩇧 𩇨 𩇩 𩇪 𩇫 𩇬 𩇭 𩇮 𩇯 𩇰 𩇱 𩇲 𩇳 𩇴 𩇵 𩇶 𩇷 𩇸 𩇹 𩇺 𩇻 𩇼 𩇽 𩇾 𩇿 𩈀 𩈁 𩈂 𩈃 𩈄 𩈅 𩈆 𩈇 𩈈 𩈉 𩈊 𩈋 𩈌 𩈍 𩈎 𩈏 𩈐 𩈑 𩈒 𩈓 𩈔 𩈕 𩈖 𩈗 𩈘 𩈙 𩈚 𩈛 𩈜 𩈝 𩈞 𩈟 𩈠 𩈡 𩈢 𩈣 𩈤 𩈥 𩈦 𩈧 𩈨 𩈩 𩈪 𩈫 𩈬 𩈭 𩈮 𩈯 𩈰 𩈱 𩈲 𩈳 𩈴 𩈵 𩈶 𩈷 𩈸 𩈹 𩈺 𩈻 𩈼 𩈽 𩈾 𩈿 𩉀 𩉁 𩉂 𩉃 𩉄 𩉅 𩉆 𩉇 𩉈 𩉉 𩉊 𩉋 𩉌 𩉍 𩉎 𩉏 𩉐 𩉑 𩉒 𩉓 𩉔 𩉕 𩉖 𩉗 𩉘 𩉙 𩉚 𩉛 𩉜 𩉝 𩉞 𩉟 𩉠 𩉡 𩉢 𩉣 𩉤 𩉥 𩉦 𩉧 𩉨 𩉩 𩉪 𩉫 𩉬 𩉭 𩉮 𩉯 𩉰 𩉱 𩉲 𩉳 𩉴 𩉵 𩉶 𩉷 𩉸 𩉹 𩉺 𩉻 𩉼 𩉽 𩉾 𩉿 𩊀 𩊁 𩊂 𩊃 𩊄 𩊅 𩊆 𩊇 𩊈 𩊉 𩊊 𩊋 𩊌 𩊍 𩊎 𩊏 𩊐 𩊑 𩊒 𩊓 𩊔 𩊕 𩊖 𩊗 𩊘 𩊙 𩊚 𩊛 𩊜 𩊝 𩊞 𩊟 𩊠 𩊡 𩊢 𩊣 𩊤 𩊥 𩊦 𩊧 𩊨 𩊩 𩊪 𩊫 𩊬 𩊭 𩊮 𩊯 𩊰 𩊱 𩊲 𩊳 𩊴 𩊵 𩊶 𩊷 𩊸 𩊹 𩊺 𩊻 𩊼 𩊽 𩊾 𩊿 𩋀 𩋁 𩋂 𩋃 𩋄 𩋅 𩋆 𩋇 𩋈 𩋉 𩋊 𩋋 𩋌 𩋍 𩋎 𩋏 𩋐 𩋑 𩋒 𩋓 𩋔 𩋕 𩋖 𩋗 𩋘 𩋙 𩋚 𩋛 𩋜 𩋝 𩋞 𩋟 𩋠 𩋡 𩋢 𩋣 𩋤 𩋥 𩋦 𩋧 𩋨 𩋩 𩋪 𩋫 𩋬 𩋭 𩋮 𩋯 𩋰 𩋱 𩋲 𩋳 𩋴 𩋵 𩋶 𩋷 𩋸 𩋹 𩋺 𩋻 𩋼 𩋽 𩋾 𩋿 𩌀 𩌁 𩌂 𩌃 𩌄 𩌅 𩌆 𩌇 𩌈 𩌉 𩌊 𩌋 𩌌 𩌍 𩌎 𩌏 𩌐 𩌑 𩌒 𩌓 𩌔 𩌕 𩌖 𩌗 𩌘 𩌙 𩌚 𩌛 𩌜 𩌝 𩌞 𩌟 𩌠 𩌡 𩌢 𩌣 𩌤 𩌥 𩌦 𩌧 𩌨 𩌩 𩌪 𩌫 𩌬 𩌭 𩌮 𩌯 𩌰 𩌱 𩌲 𩌳 𩌴 𩌵 𩌶 𩌷 𩌸 𩌹 𩌺 𩌻 𩌼 𩌽 𩌾 𩌿 𩍀 𩍁 𩍂 𩍃 𩍄 𩍅 𩍆 𩍇 𩍈 𩍉 𩍊 𩍋 𩍌 𩍍 𩍎 𩍏 𩍐 𩍑 𩍒 𩍓 𩍔 𩍕 𩍖 𩍗 𩍘 𩍙 𩍚 𩍛 𩍜 𩍝 𩍞 𩍟 𩍠 𩍡 𩍢 𩍣 𩍤 𩍥 𩍦 𩍧 𩍨 𩍩 𩍪 𩍫 𩍬 𩍭 𩍮 𩍯 𩍰 𩍱 𩍲 𩍳 𩍴 𩍵 𩍶 𩍷 𩍸 𩍹 𩍺 𩍻 𩍼 𩍽 𩍾 𩍿 𩎀 𩎁 𩎂 𩎃 𩎄 𩎅 𩎆 𩎇 𩎈 𩎉 𩎊 𩎋 𩎌 𩎍 𩎎 𩎏 𩎐 𩎑 𩎒 𩎓 𩎔 𩎕 𩎖 𩎗 𩎘 𩎙 𩎚 𩎛 𩎜 𩎝 𩎞 𩎟 𩎠 𩎡 𩎢 𩎣 𩎤 𩎥 𩎦 𩎧 𩎨 𩎩 𩎪 𩎫 𩎬 𩎭 𩎮 𩎯 𩎰 𩎱 𩎲 𩎳 𩎴 𩎵 𩎶 𩎷 𩎸 𩎹 𩎺 𩎻 𩎼 𩎽 𩎾 𩎿 𩏀 𩏁 𩏂 𩏃 𩏄 𩏅 𩏆 𩏇 𩏈 𩏉 𩏊 𩏋 𩏌 𩏍 𩏎 𩏏 𩏐 𩏑 𩏒 𩏓 𩏔 𩏕 𩏖 𩏗 𩏘 𩏙 𩏚 𩏛 𩏜 𩏝 𩏞 𩏟 𩏠 𩏡 𩏢 𩏣 𩏤 𩏥 𩏦 𩏧 𩏨 𩏩 𩏪 𩏫 𩏬 𩏭 𩏮 𩏯 𩏰 𩏱 𩏲 𩏳 𩏴 𩏵 𩏶 𩏷 𩏸 𩏹 𩏺 𩏻 𩏼 𩏽 𩏾 𩏿 𩐀 𩐁 𩐂 𩐃 𩐄 𩐅 𩐆 𩐇 𩐈 𩐉 𩐊 𩐋 𩐌 𩐍 𩐎 𩐏 𩐐 𩐑 𩐒 𩐓 𩐔 𩐕 𩐖 𩐗 𩐘 𩐙 𩐚 𩐛 𩐜 𩐝 𩐞 𩐟 𩐠 𩐡 𩐢 𩐣 𩐤 𩐥 𩐦 𩐧 𩐨 𩐩 𩐪 𩐫 𩐬 𩐭 𩐮 𩐯 𩐰 𩐱 𩐲 𩐳 𩐴 𩐵 𩐶 𩐷 𩐸 𩐹 𩐺 𩐻 𩐼 𩐽 𩐾 𩐿 𩑀 𩑁 𩑂 𩑃 𩑄 𩑅 𩑆 𩑇 𩑈 𩑉 𩑊 𩑋 𩑌 𩑍 𩑎 𩑏 𩑐 𩑑 𩑒 𩑓 𩑔 𩑕 𩑖 𩑗 𩑘 𩑙 𩑚 𩑛 𩑜 𩑝 𩑞 𩑟 𩑠 𩑡 𩑢 𩑣 𩑤 𩑥 𩑦 𩑧 𩑨 𩑩 𩑪 𩑫 𩑬 𩑭 𩑮 𩑯 𩑰 𩑱 𩑲 𩑳 𩑴 𩑵 𩑶 𩑷 𩑸 𩑹 𩑺 𩑻 𩑼 𩑽 𩑾 𩑿 𩒀 𩒁 𩒂 𩒃 𩒄 𩒅 𩒆 𩒇 𩒈 𩒉 𩒊 𩒋 𩒌 𩒍 𩒎 𩒏 𩒐 𩒑 𩒒 𩒓 𩒔 𩒕 𩒖 𩒗 𩒘 𩒙 𩒚 𩒛 𩒜 𩒝 𩒞 𩒟 𩒠 𩒡 𩒢 𩒣 𩒤 𩒥 𩒦 𩒧 𩒨 𩒩 𩒪 𩒫 𩒬 𩒭 𩒮 𩒯 𩒰 𩒱 𩒲 𩒳 𩒴 𩒵 𩒶 𩒷 𩒸 𩒹 𩒺 𩒻 𩒼 𩒽 𩒾 𩒿 𩓀 𩓁 𩓂 𩓃 𩓄 𩓅 𩓆 𩓇 𩓈 𩓉 𩓊 𩓋 𩓌 𩓍 𩓎 𩓏 𩓐 𩓑 𩓒 𩓓 𩓔 𩓕 𩓖 𩓗 𩓘 𩓙 𩓚 𩓛 𩓜 𩓝 𩓞 𩓟 𩓠 𩓡 𩓢 𩓣 𩓤 𩓥 𩓦 𩓧 𩓨 𩓩 𩓪 𩓫 𩓬 𩓭 𩓮 𩓯 𩓰 𩓱 𩓲 𩓳 𩓴 𩓵 𩓶 𩓷 𩓸 𩓹 𩓺 𩓻 𩓼 𩓽 𩓾 𩓿 𩔀 𩔁 𩔂 𩔃 𩔄 𩔅 𩔆 𩔇 𩔈 𩔉 𩔊 𩔋 𩔌

[illegible][illegible]

50. 𠂔^a 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔
 𠂔^a 𠂔^a 𠂔^a 𠂔^a 𠂔^a 𠂔^a 𠂔^a 𠂔^a
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序 $\sqrt{a}$ $\sqrt[3]{a}$

+序 $\sqrt{a}$ $\sqrt[3]{a}$

序 $\hat{a} \sqrt{\hbar} a \sqrt{a}$

[illegible]

☐ ☐ 犖 ☐ ☐ 乙盐☒ ☐ ?☐ ☐ ? k 憫 ☼ 序 + ☐

52. 雉 𪔐 𪔑 𪔒 𪔓 𪔔 𪔕 𪔖 𪔗 𪔘 𪔙 𪔚 𪔛 𪔜 𪔝 𪔞 𪔟 𪔠 𪔡 𪔢 𪔣 𪔤 𪔥 𪔦 𪔧 𪔨 𪔩 𪔪 𪔫 𪔬 𪔭 𪔮 𪔯 𪔰 𪔱 𪔲 𪔳 𪔴 𪔵 𪔶 𪔷 𪔸 𪔹 𪔺 𪔻 𪔼 𪔽 𪔾 𪔿 𪕀 𪕁 𪕂 𪕃 𪕄 𪕅 𪕆 𪕇 𪕈 𪕉 𪕊 𪕋 𪕌 𪕍 𪕎 𪕏 𪕐 𪕑 𪕒 𪕓 𪕔 𪕕 𪕖 𪕗 𪕘 𪕙 𪕚 𪕛 𪕜 𪕝 𪕞 𪕟 𪕠 𪕡 𪕢 𪕣 𪕤 𪕥 𪕦 𪕧 𪕨 𪕩 𪕪 𪕫 𪕬 𪕭 𪕮 𪕯 𪕰 𪕱 𪕲 𪕳 𪕴 𪕵 𪕶 𪕷 𪕸 𪕹 𪕺 𪕻 𪕼 𪕽 𪕾 𪕿 𪖀 𪖁 𪖂 𪖃 𪖄 𪖅 𪖆 𪖇 𪖈 𪖉 𪖊 𪖋 𪖌 𪖍 𪖎 𪖏 𪖐 𪖑 𪖒 𪖓 𪖔 𪖕 𪖖 𪖗 𪖘 𪖙 𪖚 𪖛 𪖜 𪖝 𪖞 𪖟 𪖠 𪖡 𪖢 𪖣 𪖤 𪖥 𪖦 𪖧 𪖨 𪖩 𪖪 𪖫 𪖬 𪖭 𪖮 𪖯 𪖰 𪖱 𪖲 𪖳 𪖴 𪖵 𪖶 𪖷 𪖸 𪖹 𪖺 𪖻 𪖼 𪖽 𪖾 𪖿 𪗀 𪗁 𪗂 𪗃 𪗄 𪗅 𪗆 𪗇 𪗈 𪗉 𪗊 𪗋 𪗌 𪗍 𪗎 𪗏 𪗐 𪗑 𪗒 𪗓 𪗔 𪗕 𪗖 𪗗 𪗘 𪗙 𪗚 𪗛 𪗜 𪗝 𪗞 𪗟 𪗠 𪗡 𪗢 𪗣 𪗤 𪗥 𪗦 𪗧 𪗨 𪗩 𪗪 𪗫 𪗬 𪗭 𪗮 𪗯 𪗰 𪗱 𪗲 𪗳 𪗴 𪗵 𪗶 𪗷 𪗸 𪗹 𪗺 𪗻 𪗼 𪗽 𪗾 𪗿 𪘀 𪘁 𪘂 𪘃 𪘄 𪘅 𪘆 𪘇 𪘈 𪘉 𪘊 𪘋 𪘌 𪘍 𪘎 𪘏 𪘐 𪘑 𪘒 𪘓 𪘔 𪘕 𪘖 𪘗 𪘘 𪘙 𪘚 𪘛 𪘜 𪘝 𪘞 𪘟 𪘠 𪘡 𪘢 𪘣 𪘤 𪘥 𪘦 𪘧 𪘨 𪘩 𪘪 𪘫 𪘬 𪘭 𪘮 𪘯 𪘰 𪘱 𪘲 𪘳 𪘴 𪘵 𪘶 𪘷 𪘸 𪘹 𪘺 𪘻 𪘼 𪘽 𪘾 𪘿 𪙀 𪙁 𪙂 𪙃 𪙄 𪙅 𪙆 𪙇 𪙈 𪙉 𪙊 𪙋 𪙌 𪙍 𪙎 𪙏 𪙐 𪙑 𪙒 𪙓 𪙔 𪙕 𪙖 𪙗 𪙘 𪙙 𪙚 𪙛 𪙜 𪙝 𪙞 𪙟 𪙠 𪙡 𪙢 𪙣 𪙤 𪙥 𪙦 𪙧 𪙨 𪙩 𪙪 𪙫 𪙬 𪙭 𪙮 𪙯 𪙰 𪙱 𪙲 𪙳 𪙴 𪙵 𪙶 𪙷 𪙸 𪙹 𪙺 𪙻 𪙼 𪙽 𪙾 𪙿 𪚀 𪚁 𪚂 𪚃 𪚄 𪚅 𪚆 𪚇 𪚈 𪚉 𪚊 𪚋 𪚌 𪚍 𪚎 𪚏 𪚐 𪚑 𪚒 𪚓 𪚔 𪚕 𪚖 𪚗 𪚘 𪚙 𪚚 𪚛 𪚜 𪚝 𪚞 𪚟 𪚠 𪚡 𪚢 𪚣 𪚤 𪚥 𪚦 𪚧 𪚨 𪚩 𪚪 𪚫 𪚬 𪚭 𪚮 𪚯 𪚰 𪚱 𪚲 𪚳 𪚴 𪚵 𪚶 𪚷 𪚸 𪚹 𪚺 𪚻 𪚼 𪚽 𪚾 𪚿 𪛀 𪛁 𪛂 𪛃 𪛄 𪛅 𪛆 𪛇 𪛈 𪛉 𪛊 𪛋 𪛌 𪛍 𪛎 𪛏 𪛐 𪛑 𪛒 𪛓 𪛔 𪛕 𪛖 𪛗 𪛘 𪛙 𪛚 𪛛 𪛜 𪛝 𪛞 𪛟 𪛠 𪛡 𪛢 𪛣 𪛤 𪛥 𪛦 𪛧 𪛨 𪛩 𪛪 𪛫 𪛬 𪛭 𪛮 𪛯 𪛰 𪛱 𪛲 𪛳 𪛴 𪛵 𪛶 𪛷 𪛸 𪛹 𪛺 𪛻 𪛼 𪛽 𪛾 𪛿 𪜀 𪜁 𪜂 𪜃 𪜄 𪜅 𪜆 𪜇 𪜈 𪜉 𪜊 𪜋 𪜌 𪜍 𪜎 𪜏 𪜐 𪜑 𪜒 𪜓 𪜔 𪜕 𪜖 𪜗 𪜘 𪜙 𪜚 𪜛 𪜜 𪜝 𪜞 𪜟 𪜠 𪜡 𪜢 𪜣 𪜤 𪜥 𪜦 𪜧 𪜨 𪜩 𪜪 𪜫 𪜬 𪜭 𪜮 𪜯 𪜰 𪜱 𪜲 𪜳 𪜴 𪜵 𪜶 𪜷 𪜸 𪜹 𪜺 𪜻 𪜼 𪜽 𪜾 𪜿 𪝀 𪝁 𪝂 𪝃 𪝄 𪝅 𪝆 𪝇 𪝈 𪝉 𪝊 𪝋 𪝌 𪝍 𪝎 𪝏 𪝐 𪝑 𪝒 𪝓 𪝔 𪝕 𪝖 𪝗 𪝘 𪝙 𪝚 𪝛 𪝜 𪝝 𪝞 𪝟 𪝠 𪝡 𪝢 𪝣 𪝤 𪝥 𪝦 𪝧 𪝨 𪝩 𪝪 𪝫 𪝬 𪝭 𪝮 𪝯 𪝰 𪝱 𪝲 𪝳 𪝴 𪝵 𪝶 𪝷 𪝸 𪝹 𪝺 𪝻 𪝼 𪝽 𪝾 𪝿 𪞀 𪞁 𪞂 𪞃 𪞄 𪞅 𪞆 𪞇 𪞈 𪞉 𪞊 𪞋 𪞌 𪞍 𪞎 𪞏 𪞐 𪞑 𪞒 𪞓 𪞔 𪞕 𪞖 𪞗 𪞘 𪞙 𪞚 𪞛 𪞜 𪞝 𪞞 𪞟 𪞠 𪞡 𪞢 𪞣 𪞤 𪞥 𪞦 𪞧 𪞨 𪞩 𪞪 𪞫 𪞬 𪞭 𪞮 𪞯 𪞰 𪞱 𪞲 𪞳 𪞴 𪞵 𪞶 𪞷 𪞸 𪞹 𪞺 𪞻 𪞼 𪞽 𪞾 𪞿 𪟀 𪟁 𪟂 𪟃 𪟄 𪟅 𪟆 𪟇 𪟈 𪟉 𪟊 𪟋 𪟌 𪟍 𪟎 𪟏 𪟐 𪟑 𪟒 𪟓 𪟔 𪟕 𪟖 𪟗 𪟘 𪟙 𪟚 𪟛 𪟜 𪟝 𪟞 𪟟 𪟠 𪟡 𪟢 𪟣 𪟤 𪟥 𪟦 𪟧 𪟨 𪟩 𪟪 𪟫 𪟬 𪟭 𪟮 𪟯 𪟰 𪟱 𪟲 𪟳 𪟴 𪟵 𪟶 𪟷 𪟸 𪟹 𪟺 𪟻 𪟼 𪟽 𪟾 𪟿 𪠀 𪠁 𪠂 𪠃 𪠄 𪠅 𪠆 𪠇 𪠈 𪠉 𪠊 𪠋 𪠌 𪠍 𪠎 𪠏 𪠐 𪠑 𪠒 𪠓 𪠔 𪠕 𪠖 𪠗 𪠘 𪠙 𪠚 𪠛 𪠜 𪠝 𪠞 𪠟 𪠠 𪠡 𪠢 𪠣 𪠤 𪠥 𪠦 𪠧 𪠨 𪠩 𪠪 𪠫 𪠬 𪠭 𪠮 𪠯 𪠰 𪠱 𪠲 𪠳 𪠴 𪠵 𪠶 𪠷 𪠸 𪠹 𪠺 𪠻 𪠼 𪠽 𪠾 𪠿 𪡀

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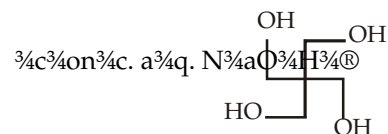
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PART - III (MATHEMATICS)

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107. 𪔐 𪔑 𪔒 𪔓 𪔔 𪔕 𪔖 𪔗 𪔘 𪔙 𪔚 𪔛 𪔜 𪔝 𪔞 𪔟 𪔠 𪔡 𪔢 𪔣 𪔤 𪔥 𪔦 𪔧 𪔨 𪔩 𪔪 𪔫 𪔬 𪔭 𪔮 𪔯 𪔰 𪔱 𪔲 𪔳 𪔴 𪔵 𪔶 𪔷 𪔸 𪔹 𪔺 𪔻 𪔼 𪔽 𪔾 𪔿 𪕀 𪕁 𪕂 𪕃 𪕄 𪕅 𪕆 𪕇 𪕈 𪕉 𪕊 𪕋 𪕌 𪕍 𪕎 𪕏 𪕐 𪕑 𪕒 𪕓 𪕔 𪕕 𪕖 𪕗 𪕘 𪕙 𪕚 𪕛 𪕜 𪕝 𪕞 𪕟 𪕠 𪕡 𪕢 𪕣 𪕤 𪕥 𪕦 𪕧 𪕨 𪕩 𪕪 𪕫 𪕬 𪕭 𪕮 𪕯 𪕰 𪕱 𪕲 𪕳 𪕴 𪕵 𪕶 𪕷 𪕸 𪕹 𪕺 𪕻 𪕼 𪕽 𪕾 𪕿 𪖀 𪖁 𪖂 𪖃 𪖄 𪖅 𪖆 𪖇 𪖈 𪖉 𪖊 𪖋 𪖌 𪖍 𪖎 𪖏 𪖐 𪖑 𪖒 𪖓 𪖔 𪖕 𪖖 𪖗 𪖘 𪖙 𪖚 𪖛 𪖜 𪖝 𪖞 𪖟 𪖠 𪖡 𪖢 𪖣 𪖤 𪖥 𪖦 𪖧 𪖨 𪖩 𪖪 𪖫 𪖬 𪖭 𪖮 𪖯 𪖰 𪖱 𪖲 𪖳 𪖴 𪖵 𪖶 𪖷 𪖸 𪖹 𪖺 𪖻 𪖼 𪖽 𪖾 𪖿 𪗀 𪗁 𪗂 𪗃 𪗄 𪗅 𪗆 𪗇 𪗈 𪗉 𪗊 𪗋 𪗌 𪗍 𪗎 𪗏 𪗐 𪗑 𪗒 𪗓 𪗔 𪗕 𪗖 𪗗 𪗘 𪗙 𪗚 𪗛 𪗜 𪗝 𪗞 𪗟 𪗠 𪗡 𪗢 𪗣 𪗤 𪗥 𪗦 𪗧 𪗨 𪗩 𪗪 𪗫 𪗬 𪗭 𪗮 𪗯 𪗰 𪗱 𪗲 𪗳 𪗴 𪗵 𪗶 𪗷 𪗸 𪗹 𪗺 𪗻 𪗼 𪗽 𪗾 𪗿 𪘀 𪘁 𪘂 𪘃 𪘄 𪘅 𪘆 𪘇 𪘈 𪘉 𪘊 𪘋 𪘌 𪘍 𪘎 𪘏 𪘐 𪘑 𪘒 𪘓 𪘔 𪘕 𪘖 𪘗 𪘘 𪘙 𪘚 𪘛 𪘜 𪘝 𪘞 𪘟 𪘠 𪘡 𪘢 𪘣 𪘤 𪘥 𪘦 𪘧 𪘨 𪘩 𪘪 𪘫 𪘬 𪘭 𪘮 𪘯 𪘰 𪘱 𪘲 𪘳 𪘴 𪘵 𪘶 𪘷 𪘸 𪘹 𪘺 𪘻 𪘼 𪘽 𪘾 𪘿 𪙀 𪙁 𪙂 𪙃 𪙄 𪙅 𪙆 𪙇 𪙈 𪙉 𪙊 𪙋 𪙌 𪙍 𪙎 𪙏 𪙐 𪙑 𪙒 𪙓 𪙔 𪙕 𪙖 𪙗 𪙘 𪙙 𪙚 𪙛 𪙜 𪙝 𪙞 𪙟 𪙠 𪙡 𪙢 𪙣 𪙤 𪙥 𪙦 𪙧 𪙨 𪙩 𪙪 𪙫 𪙬 𪙭 𪙮 𪙯 𪙰 𪙱 𪙲 𪙳 𪙴 𪙵 𪙶 𪙷 𪙸 𪙹 𪙺 𪙻 𪙼 𪙽 𪙾 𪙿 𪚀 𪚁 𪚂 𪚃 𪚄 𪚅 𪚆 𪚇 𪚈 𪚉 𪚊 𪚋 𪚌 𪚍 𪚎 𪚏 𪚐 𪚑 𪚒 𪚓 𪚔 𪚕 𪚖 𪚗 𪚘 𪚙 𪚚 𪚛 𪚜 𪚝 𪚞 𪚟 𪚠 𪚡 𪚢 𪚣 𪚤 𪚥 𪚦 𪚧 𪚨 𪚩 𪚪 𪚫 𪚬 𪚭 𪚮 𪚯 𪚰 𪚱 𪚲 𪚳 𪚴 𪚵 𪚶 𪚷 𪚸 𪚹 𪚺 𪚻 𪚼 𪚽 𪚾 𪚿 𪛀 𪛁 𪛂 𪛃 𪛄 𪛅 𪛆 𪛇 𪛈 𪛉 𪛊 𪛋 𪛌 𪛍 𪛎 𪛏 𪛐 𪛑 𪛒 𪛓 𪛔 𪛕 𪛖 𪛗 𪛘 𪛙 𪛚 𪛛 𪛜 𪛝 𪛞 𪛟 𪛠 𪛡 𪛢 𪛣 𪛤 𪛥 𪛦 𪛧 𪛨 𪛩 𪛪 𪛫 𪛬 𪛭 𪛮 𪛯 𪛰 𪛱 𪛲 𪛳 𪛴 𪛵 𪛶 𪛷 𪛸 𪛹 𪛺 𪛻 𪛼 𪛽 𪛾 𪛿 𪜀 𪜁 𪜂 𪜃 𪜄 𪜅 𪜆 𪜇 𪜈 𪜉 𪜊 𪜋 𪜌 𪜍 𪜎 𪜏 𪜐 𪜑 𪜒 𪜓 𪜔 𪜕 𪜖 𪜗 𪜘 𪜙 𪜚 𪜛 𪜜 𪜝 𪜞 𪜟 𪜠 𪜡 𪜢 𪜣 𪜤 𪜥 𪜦 𪜧 𪜨 𪜩 𪜪 𪜫 𪜬 𪜭 𪜮 𪜯 𪜰 𪜱 𪜲 𪜳 𪜴 𪜵 𪜶 𪜷 𪜸 𪜹 𪜺 𪜻 𪜼 𪜽 𪜾 𪜿 𪝀 𪝁 𪝂 𪝃 𪝄 𪝅 𪝆 𪝇 𪝈 𪝉 𪝊 𪝋 𪝌 𪝍 𪝎 𪝏 𪝐 𪝑 𪝒 𪝓 𪝔 𪝕 𪝖 𪝗 𪝘 𪝙 𪝚 𪝛 𪝜 𪝝 𪝞 𪝟 𪝠 𪝡 𪝢 𪝣 𪝤 𪝥 𪝦 𪝧 𪝨 𪝩 𪝪 𪝫 𪝬 𪝭 𪝮 𪝯 𪝰 𪝱 𪝲 𪝳 𪝴 𪝵 𪝶 𪝷 𪝸 𪝹 𪝺 𪝻 𪝼 𪝽 𪝾 𪝿 𪞀 𪞁 𪞂 𪞃 𪞄 𪞅 𪞆 𪞇 𪞈 𪞉 𪞊 𪞋 𪞌 𪞍 𪞎 𪞏 𪞐 𪞑 𪞒 𪞓 𪞔 𪞕 𪞖 𪞗 𪞘 𪞙 𪞚 𪞛 𪞜 𪞝 𪞞 𪞟 𪞠 𪞡 𪞢 𪞣 𪞤 𪞥 𪞦 𪞧 𪞨 𪞩 𪞪 𪞫 𪞬 𪞭 𪞮 𪞯 𪞰 𪞱 𪞲 𪞳 𪞴 𪞵 𪞶 𪞷 𪞸 𪞹 𪞺 𪞻 𪞼 𪞽 𪞾 𪞿 𪟀 𪟁 𪟂 𪟃 𪟄 𪟅 𪟆 𪟇 𪟈 𪟉 𪟊 𪟋 𪟌 𪟍 𪟎 𪟏 𪟐 𪟑 𪟒 𪟓 𪟔 𪟕 𪟖 𪟗 𪟘 𪟙 𪟚 𪟛 𪟜 𪟝 𪟞 𪟟 𪟠 𪟡 𪟢 𪟣 𪟤 𪟥 𪟦 𪟧 𪟨 𪟩 𪟪 𪟫 𪟬 𪟭 𪟮 𪟯 𪟰 𪟱 𪟲 𪟳 𪟴 𪟵 𪟶 𪟷 𪟸 𪟹 𪟺 𪟻 𪟼 𪟽 𪟾 𪟿 𪠀 𪠁 𪠂 𪠃 𪠄 𪠅 𪠆 𪠇 𪠈 𪠉 𪠊 𪠋 𪠌 𪠍 𪠎 𪠏 𪠐 𪠑 𪠒 𪠓 𪠔 𪠕 𪠖 𪠗 𪠘 𪠙 𪠚 𪠛 𪠜 𪠝 𪠞 𪠟 𪠠 𪠡 𪠢 𪠣 𪠤 𪠥 𪠦 𪠧 𪠨 𪠩 𪠪 𪠫 𪠬 𪠭 𪠮 𪠯 𪠰 𪠱 𪠲 𪠳 𪠴 𪠵 𪠶 𪠷 𪠸 𪠹 𪠺 𪠻 𪠼 𪠽 𪠾 𪠿 𪡀 𪡁

								
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108. ☒ ☒ 盐 ☒ ☒ ☒ -⁺₋☒ -⁺₋☒ -⁺₋☒ ☒_☒

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 $\frac{\partial}{\partial x}$

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SOLUTIONS

PART - I (PHYSICS)

1. (d) Given : $\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$
 $\frac{1}{R_{\text{eq}}} = \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = \frac{3}{2}$
 $R_{\text{eq}} = \frac{2}{3} \Omega$
 $I = \frac{V}{R_{\text{eq}}} = \frac{6}{\frac{2}{3}} = 9 \text{ A}$
 $P = I^2 R_{\text{eq}} = 9^2 \times \frac{2}{3} = 54 \text{ W}$

2. (c) $\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$

$$P = \frac{V^2}{R_{\text{eq}}}$$

$$V_{\text{eq}} = \frac{V}{2}$$

$$\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

$$P = \frac{V^2}{R_{\text{eq}}}$$

$$\text{and } P = \frac{V^2}{R_{\text{eq}}}$$

$$\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

$$\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

$$\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

3. (c) $\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$

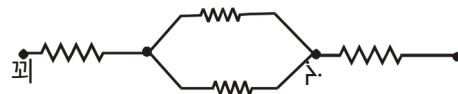
$$\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

4. (c) $\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$

$$\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

$$\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

- (d) $\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$
 (d) $\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$
 (c) $\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$



$$\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

8. (c) $\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$
 $\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$
 $\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$

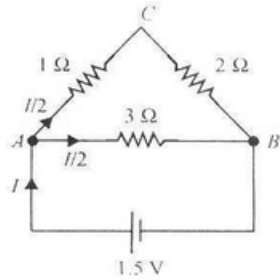
$$\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

$$\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

9. (c) $\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$
 $\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$
 $\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$
 $dF = Idl \sin \theta$

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殃 欄 RT 欄 prT 欄 prT

20. (b) $\frac{W}{W} = \frac{W}{W}$



$$\frac{W}{W} = \frac{W}{W} = \frac{W}{W}$$

21. (d)

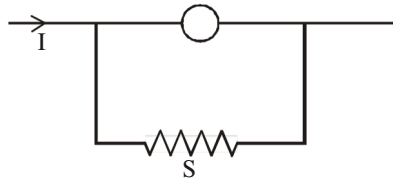
22.) $\frac{str}{ess}$

23. (a) $\frac{strai}{\#}$

(c) $\frac{strai}{\#}$

24. (c) $\frac{strai}{\#}$

25. (a) $\frac{strai}{\#}$



$$\frac{GS}{G+S} = \frac{VG}{I}$$

$$\frac{GS}{G+S} = W$$

$\frac{GS}{G+S} = W$

26. (b) $\frac{p}{p} = \frac{p}{p}$

$$\frac{p}{p} = \frac{p}{p} = \frac{p}{p}$$

$\frac{p}{p} = \frac{p}{p}$

$\frac{p}{p} = \frac{p}{p}$

$$\frac{p}{p} = \frac{p}{p} = \frac{p}{p}$$

$$\frac{p}{p} = \frac{p}{p} = \frac{p}{p}$$

$$\frac{p}{p} = \frac{p}{p} = \frac{p}{p}$$

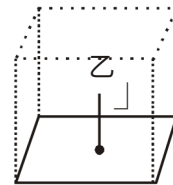
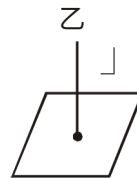
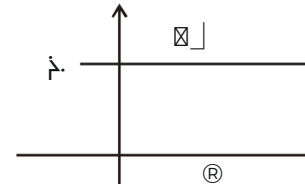
27. (a) $\frac{p}{p} = \frac{p}{p}$

28. (a) $\frac{p}{p} = \frac{p}{p}$

29. (c) $\frac{p}{p} = \frac{p}{p}$

$$\frac{p}{p} = \frac{p}{p}$$

$\frac{p}{p} = \frac{p}{p}$

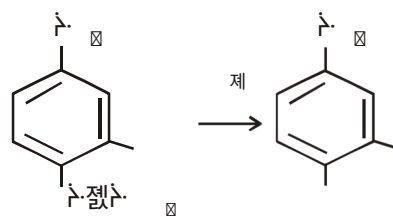
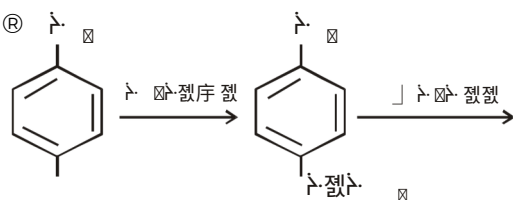


30. (c)

$\frac{p}{p} = \frac{p}{p}$

3/4 3/4 (R)

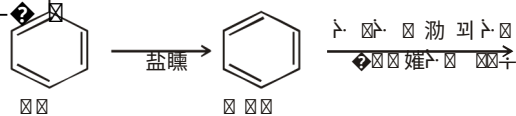
$\text{[Box]}-\ddot{\text{N}} \quad - \ddot{\text{A}} \quad - \text{:}\ddot{\text{N}}\text{:} \quad \frac{3}{4}-$
 $\text{[Box]}-\ddot{\text{N}} \quad - \ddot{\text{O}} \quad : \frac{3}{4}\frac{3}{4}\text{®}$
 $\text{[Box]}-\ddot{\text{N}}^+ \quad + : \text{O} :$
 $\text{[Box]}-\ddot{\text{N}}^+ \quad +$
 $\text{[Box]}=\ddot{\text{N}}^+$
 $\frac{3}{4}\frac{3}{4}\text{®} \quad \text{[Cyclopentadiene with N}] \quad \frac{3}{4}- + \frac{3}{4}\frac{3}{4}\text{®}$
 $\text{[Cyclopentadiene with N]} \quad \text{[Cyclopentadiene with N]} \quad \text{[Cyclopentadiene with N]}$

[illegible]

46. (b) ☐☐空☐☐龜瞋憫¹, 제☺憫☺제☺憫

$\frac{1}{2}$ $\frac{1}{8}$

43. (a) 



44. (d) $\otimes \otimes \otimes \div \blacklozenge \otimes$ 嬌

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[illegible]

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 ㅅ ㅈ ㅊ ㅋ ㆁ
























[illegible]

泐 ☒ ☒ 瞋 ☒ ? ÷ ☒ ÷ ?

51. (d) $k = \frac{E_a}{RT}$ 嘴 序

叫 瞞 2 2 2 2 k = - 序 $\frac{\circ}{T}$

嘴序

형 + 龜 乙盐 曠 序 序
log A 欄 p A 欄 曠

$$\boxtimes \frac{\text{Ea}}{\text{R}} = \text{錐}$$

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 𐄎 黨 卜 龜 𐄎

52. (c)

[illegible]

[illegible]

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 泐 泐 泐 泐 泐 泐 泐 泐

3/4 3/4   제 제 3/4 3/4  3/4  3/4  4    ? 

$$a = \frac{r}{\sqrt{2}} \quad r = \frac{\sqrt{2}}{2} a$$

ㄷ 序. ㄴ. 져. 3/4 ㄷ. 3/4 ㄴ. ㄴ. 져.
























序

$$a = \sqrt{r} \otimes r = \frac{\overset{\circ}{\circ} \circ}{\sqrt{}} \otimes$$

$\dot{\iota} \cdot \boxtimes \dot{\iota} \cdot \text{젤} \dot{\iota} \cdot \boxtimes$
 $\frac{3}{4} \dot{\iota} \cdot \frac{3}{4} \text{젤} \boxtimes \text{젤} \dot{\iota} \cdot \boxtimes$

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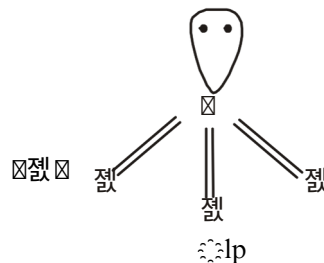
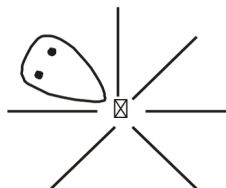
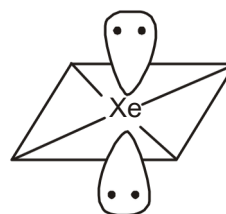
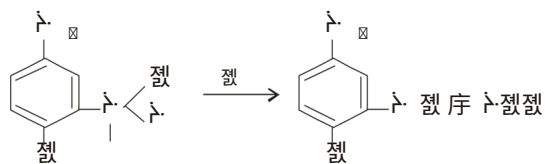
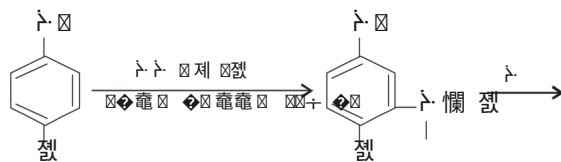
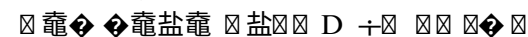
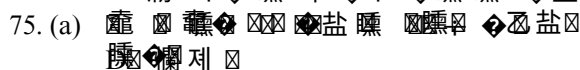
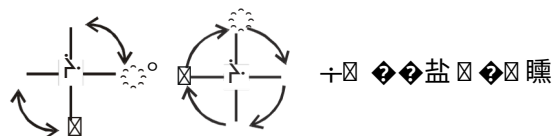
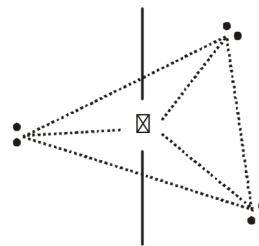
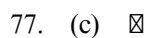
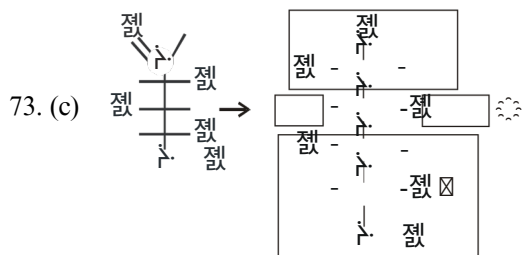
序 ㄴ. ㄴ. ㄴ. ㄴ. ㄴ.

欄^a $\frac{\sqrt{\boxtimes}}{\sqrt{}}$ a $\frac{\text{☼}}{\sqrt{}}$ a $\text{◆} \boxtimes$

$\dot{\gamma}$ $\boxtimes \dot{\gamma}$ $\text{절} \dot{\gamma}$ $\boxtimes$ $\frac{3}{4}\dot{\gamma}$ $\frac{3}{4}\boxtimes$ $\frac{3}{4}\dot{\gamma}$ $\frac{3}{4}\div$ $\frac{3}{4}$ 和 $\boxtimes$ 절 $\frac{3}{4}$ $\frac{3}{4}\oplus$

☐ ☒ ☐ 序 ☒ 曠 ☐ ☐ ☐ 曠準

72. (b) 空鹽 〇 〇 〇 제 + 龜鹽 〇 + 〇 〇 제
〇 鹽 제 〇 〇 + 〇 〇 〇 〇 〇 〇 〇 + 〇 〇
f 雛 〇 + 〇 〇



80. (b) $\dot{\text{C}}_6\text{H}_5$  $\xrightarrow{\text{HNO}_3/\text{H}_2\text{SO}_4}$ $\text{C}_6\text{H}_5\text{NO}_2$  $\xrightarrow{\text{HNO}_3/\text{H}_2\text{SO}_4}$ $\text{C}_6\text{H}_4\text{NO}_2$  $\xrightarrow{\text{HNO}_3/\text{H}_2\text{SO}_4}$ $\text{C}_6\text{H}_3\text{NO}_2$ 

H  欄 H 제  젼
 ② H  欄  젼

[illegible][illegible][illegible]

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 P x 제 序 제 y 제▣序欄黨

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85. (b) f x序 欄 𪛗 x kx c 隼 𪛗 k 𪛗
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[illegible]

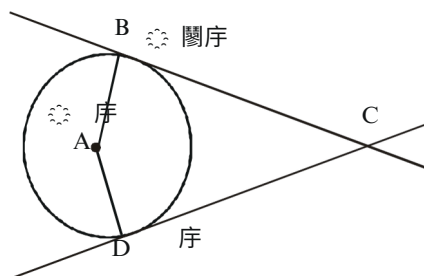
___ = $\square - \square$ $\blacklozenge$ 序

95. (c) $a^r b^r \text{ 序 }^r cd \text{ 序序 } a^r d \text{ 序} =$

$\boxtimes a c d \boxtimes b c d$
 $\boxtimes a c d \boxtimes b c d$
 $\boxtimes a c d \boxtimes b c d$
 $\boxtimes a c d \boxtimes b c d$

책 ♠ r ♣ b 龜盐曛 ♠ ♠ ♠ ♠
♠ d^r c

96. (b)



☒ ☐ ÷☒ ☒ ☑ 瞞 A ☺ ☘ 序 ☒ ☒ ☑☒ ☒ B
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 ☒ 泐 憫 閻 ☺ 序
 ☒ ☑☒ ☒ D 序 ☑ 瞞
 ☒x y 憫 庠

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 ㄉ ㄉ ABCD 懶 ㄉ ㄉ ㄉ D ㄉ ㄉ 序

$$\text{欄} \hat{\text{ㅁ}} \hat{\text{ㅁ}} \text{AB} \hat{\text{ㅁ}} \text{BC}$$

AB 𐄢 BC 欄? 𐄢 𐄣? 欄鬪? 盐? 𐄤

97. (c) 𠂇 𠂆? 𠂆? ? 泐 𠂆 瞞

ò 序? 序 - ò 序? 序

$$= \text{序} \diamond 'E - \text{序} \diamond 'E \text{ 序} \diamond 'E \text{ 序}$$
$$-{}^{\circ}\text{E}\text{序}\diamond\text{序}+{}^{\circ}\text{E}\text{序}\diamond{}^{\circ}\text{E}\text{序}$$
$$= \text{序} \diamond \text{'E} \text{序} - \text{'E} \text{序} \diamond \text{序}$$

$\boxtimes \div \boxtimes$ $\overset{\circ}{\circ} \text{序} \blacklozenge \text{序} - \overset{\circ}{\circ} \text{序} \blacklozenge \text{序}$

欄 序? 'E 序 'E 序? + 底-序? 序

$$= \text{有序} \diamond \text{有序} \diamond \text{有序}$$

98. (d) $z = \frac{i}{-i} \cdot \frac{i}{i}$

$$= \frac{\text{?} + \text{?} + \text{?}}{\text{?} + \text{黨}} = \frac{\text{?} \text{?} \text{序}}{\text{?}} = \text{?} \text{序}$$
$$Z^{\circ} = \circ + \text{序} \circ \otimes \circ + \text{序} \circ = \text{序} \circ$$
$$= \begin{array}{c} \text{閩} \text{閩} \\ \text{閩} \end{array} \dot{\pm} - \begin{array}{c} \text{閩} \\ \text{閩} \end{array} \dot{i}$$

99. (c) 序 欄 曠❖ 제 曠❖

'E 序欄 ⇨ 제 ⇨ 제欄 ⇨ 제 제 순
\'E 序欄 ⇨ 제 제

$$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \quad \text{or} \quad \frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$$

準 序 = $\frac{\text{æ} \square \text{p} \ddot{\text{o}}}{\text{c} \text{---} \text{ø} \text{---}} = -$

$$p_{\text{序}} = \frac{a p_{\text{ö}}}{e \div \emptyset} \frac{\sqrt{x}}{\sqrt{x}} + \frac{\sqrt{x}}{\sqrt{x}} = \frac{x \sqrt{x}}{x}$$

\   $\div$             

$$\text{欄} \sqrt{\square} +$$

𪔐 𪔑 𪔒 𪔓 𪔔 𪔕 𪔖 𪔗 𪔘 𪔙 𪔚 𪔛 𪔜 𪔝 𪔞 𪔟 𪔠 𪔡 𪔢 𪔣 𪔤 𪔥 𪔦 𪔧 𪔨 𪔩 𪔪 𪔫 𪔬 𪔭 𪔮 𪔯 𪔰 𪔱 𪔲 𪔳 𪔴 𪔵 𪔶 𪔷 𪔸 𪔹 𪔺 𪔻 𪔼 𪔽 𪔾 𪔿 𪕀 𪕁 𪕂 𪕃 𪕄 𪕅 𪕆 𪕇 𪕈 𪕉 𪕊 𪕋 𪕌 𪕍 𪕎 𪕏 𪕐 𪕑 𪕒 𪕓 𪕔 𪕕 𪕖 𪕗 𪕘 𪕙 𪕚 𪕛 𪕜 𪕝 𪕞 𪕟 𪕠 𪕡 𪕢 𪕣 𪕤 𪕥 𪕦 𪕧 𪕨 𪕩 𪕪 𪕫 𪕬 𪕭 𪕮 𪕯 𪕰 𪕱 𪕲 𪕳 𪕴 𪕵 𪕶 𪕷 𪕸 𪕹 𪕺 𪕻 𪕼 𪕽 𪕾 𪕿 𪖀 𪖁 𪖂 𪖃 𪖄 𪖅 𪖆 𪖇 𪖈 𪖉 𪖊 𪖋 𪖌 𪖍 𪖎 𪖏 𪖐 𪖑 𪖒 𪖓 𪖔 𪖕 𪖖 𪖗 𪖘 𪖙 𪖚 𪖛 𪖜 𪖝 𪖞 𪖟 𪖠 𪖡 𪖢 𪖣 𪖤 𪖥 𪖦 𪖧 𪖨 𪖩 𪖪 𪖫 𪖬 𪖭 𪖮 𪖯 𪖰 𪖱 𪖲 𪖳 𪖴 𪖵 𪖶 𪖷 𪖸 𪖹 𪖺 𪖻 𪖼 𪖽 𪖾 𪖿 𪗀 𪗁 𪗂 𪗃 𪗄 𪗅 𪗆 𪗇 𪗈 𪗉 𪗊 𪗋 𪗌 𪗍 𪗎 𪗏 𪗐 𪗑 𪗒 𪗓 𪗔 𪗕 𪗖 𪗗 𪗘 𪗙 𪗚 𪗛 𪗜 𪗝 𪗞 𪗟 𪗠 𪗡 𪗢 𪗣 𪗤 𪗥 𪗦 𪗧 𪗨 𪗩 𪗪 𪗫 𪗬 𪗭 𪗮 𪗯 𪗰 𪗱 𪗲 𪗳 𪗴 𪗵 𪗶 𪗷 𪗸 𪗹 𪗺 𪗻 𪗼 𪗽 𪗾 𪗿 𪘀 𪘁 𪘂 𪘃 𪘄 𪘅 𪘆 𪘇 𪘈 𪘉 𪘊 𪘋 𪘌 𪘍 𪘎 𪘏 𪘐 𪘑 𪘒 𪘓 𪘔 𪘕 𪘖 𪘗 𪘘 𪘙 𪘚 𪘛 𪘜 𪘝 𪘞 𪘟 𪘠 𪘡 𪘢 𪘣 𪘤 𪘥 𪘦 𪘧 𪘨 𪘩 𪘪 𪘫 𪘬 𪘭 𪘮 𪘯 𪘰 𪘱 𪘲 𪘳 𪘴 𪘵 𪘶 𪘷 𪘸 𪘹 𪘺 𪘻 𪘼 𪘽 𪘾 𪘿 𪙀 𪙁 𪙂 𪙃 𪙄 𪙅 𪙆 𪙇 𪙈 𪙉 𪙊 𪙋 𪙌 𪙍 𪙎 𪙏 𪙐 𪙑 𪙒 𪙓 𪙔 𪙕 𪙖 𪙗 𪙘 𪙙 𪙚 𪙛 𪙜 𪙝 𪙞 𪙟 𪙠 𪙡 𪙢 𪙣 𪙤 𪙥 𪙦 𪙧 𪙨 𪙩 𪙪 𪙫 𪙬 𪙭 𪙮 𪙯 𪙰 𪙱 𪙲 𪙳 𪙴 𪙵 𪙶 𪙷 𪙸 𪙹 𪙺 𪙻 𪙼 𪙽 𪙾 𪙿 𪚀 𪚁 𪚂 𪚃 𪚄 𪚅 𪚆 𪚇 𪚈 𪚉 𪚊 𪚋 𪚌 𪚍 𪚎 𪚏 𪚐 𪚑 𪚒 𪚓 𪚔 𪚕 𪚖 𪚗 𪚘 𪚙 𪚚 𪚛 𪚜 𪚝 𪚞 𪚟 𪚠 𪚡 𪚢 𪚣 𪚤 𪚥 𪚦 𪚧 𪚨 𪚩 𪚪 𪚫 𪚬 𪚭 𪚮 𪚯 𪚰 𪚱 𪚲 𪚳 𪚴 𪚵 𪚶 𪚷 𪚸 𪚹 𪚺 𪚻 𪚼 𪚽 𪚾 𪚿 𪛀 𪛁 𪛂 𪛃 𪛄 𪛅 𪛆 𪛇 𪛈 𪛉 𪛊 𪛋 𪛌 𪛍 𪛎 𪛏 𪛐 𪛑 𪛒 𪛓 𪛔 𪛕 𪛖 𪛗 𪛘 𪛙 𪛚 𪛛 𪛜 𪛝 𪛞 𪛟 𪛠 𪛡 𪛢 𪛣 𪛤 𪛥 𪛦 𪛧 𪛨 𪛩 𪛪 𪛫 𪛬 𪛭 𪛮 𪛯 𪛰 𪛱 𪛲 𪛳 𪛴 𪛵 𪛶 𪛷 𪛸 𪛹 𪛺 𪛻 𪛼 𪛽 𪛾 𪛿 𪜀 𪜁 𪜂 𪜃 𪜄 𪜅 𪜆 𪜇 𪜈 𪜉 𪜊 𪜋 𪜌 𪜍 𪜎 𪜏 𪜐 𪜑 𪜒 𪜓 𪜔 𪜕 𪜖 𪜗 𪜘 𪜙 𪜚 𪜛 𪜜 𪜝 𪜞 𪜟 𪜠 𪜡 𪜢 𪜣 𪜤 𪜥 𪜦 𪜧 𪜨 𪜩 𪜪 𪜫 𪜬 𪜭 𪜮 𪜯 𪜰 𪜱 𪜲 𪜳 𪜴 𪜵 𪜶 𪜷 𪜸 𪜹 𪜺 𪜻 𪜼 𪜽 𪜾 𪜿 𪝀 𪝁 𪝂 𪝃 𪝄 𪝅 𪝆 𪝇 𪝈 𪝉 𪝊 𪝋 𪝌 𪝍 𪝎 𪝏 𪝐 𪝑 𪝒 𪝓 𪝔 𪝕 𪝖 𪝗 𪝘 𪝙 𪝚 𪝛 𪝜 𪝝 𪝞 𪝟 𪝠 𪝡 𪝢 𪝣 𪝤 𪝥 𪝦 𪝧 𪝨 𪝩 𪝪 𪝫 𪝬 𪝭 𪝮 𪝯 𪝰 𪝱 𪝲 𪝳 𪝴 𪝵 𪝶 𪝷 𪝸 𪝹 𪝺 𪝻 𪝼 𪝽 𪝾 𪝿 𪞀 𪞁 𪞂 𪞃 𪞄 𪞅 𪞆 𪞇 𪞈 𪞉 𪞊 𪞋 𪞌 𪞍 𪞎 𪞏 𪞐 𪞑 𪞒 𪞓 𪞔 𪞕 𪞖 𪞗 𪞘 𪞙 𪞚 𪞛 𪞜 𪞝 𪞞 𪞟 𪞠 𪞡 𪞢 𪞣 𪞤 𪞥 𪞦 𪞧 𪞨 𪞩 𪞪 𪞫 𪞬 𪞭 𪞮 𪞯 𪞰 𪞱 𪞲 𪞳 𪞴 𪞵 𪞶 𪞷 𪞸 𪞹 𪞺 𪞻 𪞼 𪞽 𪞾 𪞿 𪟀 𪟁 𪟂 𪟃 𪟄 𪟅 𪟆 𪟇 𪟈 𪟉 𪟊 𪟋 𪟌 𪟍 𪟎 𪟏 𪟐 𪟑 𪟒 𪟓 𪟔 𪟕 𪟖 𪟗 𪟘 𪟙 𪟚 𪟛 𪟜 𪟝 𪟞 𪟟 𪟠 𪟡 𪟢 𪟣 𪟤 𪟥 𪟦 𪟧 𪟨 𪟩 𪟪 𪟫 𪟬 𪟭 𪟮 𪟯 𪟰 𪟱 𪟲 𪟳 𪟴 𪟵 𪟶 𪟷 𪟸 𪟹 𪟺 𪟻 𪟼 𪟽 𪟾 𪟿 𪠀 𪠁 𪠂 𪠃 𪠄 𪠅 𪠆 𪠇 𪠈 𪠉 𪠊 𪠋 𪠌 𪠍 𪠎 𪠏 𪠐 𪠑 𪠒 𪠓 𪠔 𪠕 𪠖 𪠗 𪠘 𪠙 𪠚 𪠛 𪠜 𪠝 𪠞 𪠟 𪠠 𪠡 𪠢 𪠣 𪠤 𪠥 𪠦 𪠧 𪠨 𪠩 𪠪 𪠫 𪠬 𪠭 𪠮 𪠯 𪠰 𪠱 𪠲 𪠳 𪠴 𪠵 𪠶 𪠷 𪠸 𪠹 𪠺 𪠻 𪠼 𪠽 𪠾 𪠿 𪡀 𪡁

책欄 권 鹽 책序欄 泐

ㅂ 잭 序 欄 序 泐序

책欄괴      瞋²

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[illegible]

108. (c) $\begin{array}{ccccc} \boxed{\times} & - & \textcircled{\times} & \boxed{\times} & - & \textcircled{\times} & \boxed{\times} & - & \textcircled{\times} \\ & & + & & & + & & & \end{array}$

[illegible]

$$\frac{e}{\hbar} \left(\frac{\hbar}{2m} \nabla^2 + \frac{1}{2} \nabla^2 \right) x + \frac{\hbar}{2m} \nabla^2 y + \frac{1}{2} \nabla^2 z$$

$$= \begin{vmatrix} x & y & z \\ x & y & z \\ x & y & z \end{vmatrix} = 0$$

$$= \boxtimes - \cdot \frac{\text{Diagram 1}}{\text{Diagram 2}} \cdot \frac{\text{Diagram 3}}{\text{Diagram 4}}$$

[illegible]

109. (b)

[illegible]

109. (b)

109. (b)

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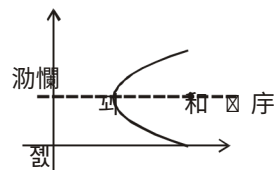
109. (b)

109. (b)

109. (b)

109. (b)

109. (b)



$$A = \begin{pmatrix} \hat{e} & - \\ \hat{e} & - \end{pmatrix} \quad \begin{pmatrix} \hat{e} & - \\ \hat{e} & - \end{pmatrix} \quad \begin{pmatrix} \hat{e} & - \\ \hat{e} & - \end{pmatrix} \quad \begin{pmatrix} \hat{e} & - \\ \hat{e} & - \end{pmatrix}$$
[illegible]

$$\begin{vmatrix} \text{𐤀} & \text{𐤁} & \text{𐤂} \\ \text{𐤃} & \text{𐤄} & \text{𐤅} \end{vmatrix} = \begin{vmatrix} - & ? \\ - & - \end{vmatrix}$$

$$\begin{array}{c} \boxed{\times} \\ | \\ - \\ - \end{array} \begin{array}{c} \textcircled{?} \\ \boxed{\times} \end{array} = - + = \textcircled{1}$$

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$$\backslash \quad \overset{p \downarrow}{\textcircled{\text{序}}} = \frac{\text{睡} \quad \text{?} \quad \text{?} \quad \overset{p \downarrow}{\text{?}}}{\text{?} \quad \text{?} \quad \text{?} \quad \text{?}} = - \frac{\text{?} \quad \text{?} \quad \text{?} \quad \text{?}}{\text{?} \quad \text{?} \quad \text{?} \quad \text{?}}$$

$$\begin{array}{ccccccc} \square & \square & \square & \square & \square & \blacklozenge & \square \end{array} - = \frac{\text{泐}}{\square} = \frac{\overset{\text{ㇰ}}{\text{ㇰ}}}{-} \blacklozenge \text{瞞}$$

$$\frac{\text{灞}}{\text{灞}} = \frac{\text{灞}}{\text{灞}} = \frac{\text{灞}}{\text{灞}} = \text{灞灞灞序} \quad \text{灞序}$$

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序

[illegible]

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7. $y \times \square \square \blacklozenge \square \text{準} \blacklozenge \div \square \square \blacklozenge \square \square \square$

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1. 计算：

$$12 \div 3 = 4$$

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\ from序 $y_{\circ} = \frac{a}{a} = \circ = \diamond \circ$ 錐

$$\mathbb{D} y^{\circ} = \diamond^{\circ}$$

$$x - x_0 = -x_0 \quad y = y_0$$

欄 ❷
from 序 $y = \frac{a}{-a} = -1 = \text{圓錐}$

or $y = \text{?}^o$

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▷ a 제序 b序 c序 제 a序 c序

제 a序 b序欄

116. (c) 序 = 序

$$D = \frac{\overset{\textcircled{\circ}}{\underset{\textcircled{\circ}}{a}} + \frac{\overset{\textcircled{\circ}}{\underset{\textcircled{\circ}}{b}} + \frac{\overset{\textcircled{\circ}}{\underset{\textcircled{\circ}}{c}}}{\text{欄} \textcircled{\circ}}$$

119. (c) $\frac{1}{2} \cdot \frac{1}{2} = \frac{1}{4}$ - $\frac{1}{4}$ - $\frac{1}{4}$ - $\frac{1}{4}$

$$\boxtimes \quad \text{과} \quad \hat{\text{과}} = \hat{\text{과}} \boxtimes \quad \text{과} \quad \text{?序}$$

[illegible]

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$$D \quad \pi = \left| \begin{array}{cc} \square & - \\ \sim & \sim \end{array} \right|$$

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120. (d) 제 제 제 제 제 제 제 제

$$= \sqrt{+ \text{黨} - \text{黨} - \text{黨} - \text{黨} + \text{黨}} = \text{黨}$$

제 제 제 제 제 제 제 제

$$\text{제} a = \frac{\text{黨}}{\sqrt{+ \text{黨} - \text{黨} - \text{黨} - \text{黨} + \text{黨}}}$$

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+黨 +黨 +黨

D + + - +黨

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PART - IV (ENGLISH)

121. (c)

122. (d)

123. (a)

124. (c)

125. (b) 제 제 제 제 제 제 제 제
제 제 제 제 제 제 제 제