Work on math portion Make headings in theory portion Draw diagrams Mame: - Sabahat Faxoopherease length
Batch: - 08-060
Mock exam: General Science and ability Q1(a) Differentiate and trainment ? What air pollution in invitonment, refers organisms and

DATE: __/__/___ Causes of air pollution in Pakistan: Following are the causes of air pollution: Burning of fossil fuels: The combustion of fossil field emits a large amount of sulphus dioxide. Carbon monoxide released by incomplete combustion of fossil fuels also result in aix pollution. Automobiles: The gases emitted from vehicles pollok the environment. These greenhouse gases and also result in diseases among individuals. Agricultural activities: Ammonia is one of the hazardous gases emitted during agricultural activities. The insecticides fertilizers emit harmful chemicals in atmosphere and contaminate it

DATE: __/__/___

Factories and Industries-Factories and industries are organic compounds hydrocarbons and chemicals. These are released into aix, and degrade quality of air. Mining activities: In mining proces minerals below the earth are extracted using large pieces of equipment.
The dut and chemicals
released during the process
pollute the air. (b) Write note on vitamine and their role in human body. Vitamins are essential organic compounds that are required by human body in small amounts to maintain good health. They play crucial voles in varior physiological processes and support overall well-being.
There are 13 essential vitamins classified as water soluble

DATE: __/__/___ and fat soluble. Each sitamin has specific function in the such as supporting the immune system, ading in metabolism, promoting hearth vision, maintaing strong bones and act as antiordants to pretet cells from damage. allagen production and insmure essential for bone kealth and calcium absorption. deficiency or eacess of any vitamin can lead to various health problems. Therefore it is important to consume a balanced died that include, variety of vitamin-rich foods. (c) Compare goal of Cop-27 and Cop-28 on climbs change. The goal of Cop. 27 and Cop. 28 on dimate change would likely be Similar, focusing on echanging and implementing the commitments made under

DATE: __/__/__ Paris Agreement to reduce

green ous gas emissions and

limit global warming to well

below 2° above pre-industrial

levels. Both conferences would

also aim to address issues

cuch as adoptation, financing,

and tennology transfer to

support developing countries in

their efforts to combat climate

charge: The species originities charge The specific priorities and targete for each cop may vary based on the progress made since the previous conference and emerging challenges in global climate lendscape. (d) What are Active and Passive sensors. How they are used in G.1.52 Active censors emit engy such as raday or LiDAR and measure the reflection or return of that energy to gather information: Passive selecte donot emit energy source of energy such as sunliment or thormal radiation.

n GIS active sensors like Livian models. day sensors are also commonly read in vente sensing about earth's surface by measuring the reflection of radar waves Pascive gencory such as optical sensors like campas or satelliate. based sensors are widely used detecting land cover. These sensors provide valuable information for mapping and analyzing spatial data in GIS application. Is(a) How cyclones are formed? Cyclones are formed through a complex process involving several key factors such as instability and farth's rotation.

DATE:__/_/_ Warm ocean water: Cyclones are form over worm tropical ocean naters where the surface temperature is around 265 depree celesions. The morn water provides the heat and moisture needed to feel the Storm. Atmospheric instability: As the warm moist air rises from ocean surface it cools and condenses, forming clouds and releasing latent heat energy. This process creates an oxler of law pressor at the surface and helps to further intensify the storm. Earth's rotation. The Earth's Notation course air to spin in a direction in the Northern hemisphere and a clockwise direction in Southern hemisphere. This spinning motion is known as corrolis effect.

As the storm continuous to intensify and organize eventually classified n or hyricane d wind speed. a significan their destructive winds, heavy (b) Differentiale between Ionic and covalent ionic bond Covalent Ionic bonds form when electrons are Covalent bons form when atom transferred from one Shave electrons to achieve resulting amore stable electron configuration and negatively charged ions that are attracted to eachother due to their opposite charges. typically formed between non-motals

Tonic bonds tend Covalent bonds to have higher melting and boiling Points have low. melting and boiling points. Ionic bonds are Covalent bonds stronger than are wester. covalent bends Tonic bords gre

at your temperative. Covaled bords ax wolf at gas Tom temperature. high wood polarity. Covalent bonds Ionic bonds are Covalent bonds brittle. ave soft c) Give uses of Gramma rays, x-rays and radio waves. Gamma Yays: Gamma rays are used in concer treatment, imaging of object in space, sterilization of medical equipment and fond preservation.

DATE:__/__/_ X- Yays:-L- yays are used in medical maging for detecting bone fractures, lent at exams, security screening at airports and industrial inspection Radio waves: Radio waves beet in communication systems such as vadio, television, mobile phones, Wi-Fi, vaday systems and satelliate communications (d) Whate one tides. Write note on L.F.D. Tides are the rise and fall of sea levels cared by the gravitational forces exerted by the moon and the sun on the farth. The gravitational poil of the moon is predominantly responsible for the tides, as it is closer to farth compared to the con.

DATE: __/_/_ stands semicondudor light w enits convent Componly and Signage automotive lighting Section - II (6) p) Radius of cylinder is 8cm and Given:-Radius = 8cm = 15cm Formulavolume = T x radius x height

DATE: __/__/_ Solution: - 1 x 64x15 (b) All Agrea Morgue in Jexusalom,
Tstact has a donne of rock
in regular octagonal shape.
What will be the angle of
each side. In regular octagon, the To find measure of each interior angle in egular actagon we use formula Inteller angle - (180x (n-2))/n
where n is the numb sides of polygon, which this each is 8 of ar octagon Interior angle = (180x (8-1) 1080/8

DATE: __/_/_ of Dal Lake in stinagger is 4.6 mile and maximum width is 2.2 mile. Find suffac axea. Given: To fin . Franke: - 4.6 miles x 2.2 miles 10-12 square miles. d) A ladder is leaving against the side of a lam tall the side of a form tall house of ladder is 3m away from house how tall ladder.

g. cometers. Q(8) (a) Write What alled (CLD (chronologicalage) X lon ation nutrition, socio-econonic and hild had experiences. the number of triangles the below equilateral the (6) Hiangle-

To find the number all triangles in an equilateral triangle, we can apply the triangle number formula number of lows is Total triangles = Therefore equilateral triangle contains letter is chosen at random 10) from the word superientendent What is probability the word is vowel. This word superintendent gre 4 vouels (u,e,i,e) lo consonanto Total number of letteris Number of favourable outcomes: number of outcomes=14

Probability - Number number of outcome W Distribute Rg Distribute Rs 4320 among 2 ain Aslam and Ashraf in such way that if 2 ain gets 2 parts then Aslam gets three Aslam and a way that parts and Ashvaf get 7 parts. 82 4320 appoint among Aslam and Ashraf in vatio value of leach part amount Total amount Total number each part > 1/320/12 366 CHIPOUT according to Vatio: Zain: 2 parts Amount of Zain Zgart X RS 360 -Aslam: 3 parts Amont of Aslam = 3portsx RS360=181080 Ashyaf: 7- Parts Therefore zoin will get for 720) Aslam will get for Will get for Will get for 2000 and Ashraf will get for 2520