

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION BANNU
GRADE – V ASSESSMENT 2017

GENERAL SCIENCE

Roll No.						
Student Name: (In Capital)						

Center No. _____
Center Name: _____
Superintendent Name/ Stamp: _____

ہدایات:

- 1- ہر سوال کے چار ممکنہ جوابات دیے گئے ہیں۔ ان میں سے صرف ایک جواب درست ہے۔ آپ نے درست جواب کے دائرے کو سامنے دیے گئے طریقے سے مکمل سیاہ کرنا ہے۔
- 2- دائروں کو شیڈ بھرنے کے لیے کالے یا نیلے رنگ کا پین استعمال کریں۔
- 3- جواب میں ایک سے زیادہ دائرے بھرنے سے جواب غلط تصور ہو گا۔

Time Allowed: 45 Minutes

SECTION – A

Total Marks: 30

Q.1	Which of the following is a vertebrate? ☐ spider ☐ snail ☐ scorpion ☐ snake	Q.4	Non-biodegradable materials ☐ clean the environment ☐ pollute the environment ☐ increase the fertility of land ☐ increase soil erosion
Q.2	Monocot plants have ☐ two cotyledon ☐ narrow and pointed leaves ☐ four or five floral parts ☐ tap roots	Q.5	The microorganisms which cannot live outside a living cell is ☐ bacteria ☐ virus ☐ algae ☐ fungi
Q.3	Lung diseases are mostly caused by ☐ air pollution ☐ water pollution ☐ noise pollution ☐ land pollution	Q.6	The conversion of milk into yogurt is because of ☐ virus ☐ algae ☐ fungi ☐ bacteria

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Q.7	The part of seed which contains food for embryo is called ☐ radical ☐ cotyledon ☐ hypocotyl ☐ epicotyl	Q.13	Moisture settled on plants is called ☐ rain ☐ snow ☐ fog ☐ dew
Q.8	Water pollution is mostly caused by ☐ birds ☐ fish ☐ trees ☐ people	Q.14	We can see clearly through ☐ opaque objects ☐ transparent objects ☐ translucent objects ☐ wooden objects
Q.9	To avoid infection we should ☐ take exercise only ☐ observe cleanliness ☐ eat more food ☐ take long sleep	Q.15	Moon of first day is called ☐ crescent moon ☐ quarter moon ☐ waning moon ☐ full moon
Q.10	To reduce air pollution we should ☐ burn wood for cooking ☐ cut the trees ☐ plant more trees ☐ use more vehicles	Q.16	The rate of flow of charges is called ☐ current ☐ volt ☐ resistance ☐ power

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Q.11	The distance among the molecules of a gas is ☐ less than solid ☐ less than liquid ☐ greater than solid and liquid ☐ equal to solid and liquid	Q.17	The process in which liquid is converted into gaseous state is called ☐ melting ☐ freezing ☐ boiling ☐ burning
Q.12	A cyclist bends forward to ☐ balance the cycle ☐ reduce air friction ☐ balance himself ☐ increase the speed	Q.18	A person sitting in a moving bus falls forwards when brakes are applied suddenly because of ☐ friction ☐ gravity ☐ inertia ☐ air resistance
Q.19	Ali wants to load heavy box on a truck, which type of machine will he use? ☐ lever ☐ inclined plane ☐ pulley ☐ wedge	Q.25	When Sana comes back to home from school at 2:30pm, her shadow is formed ☐ west to sun and large in size ☐ at the same place and very small in size ☐ east to sun and large in size ☐ at the same place and very large in size
Q.20	Quantity of matter in a body is called ☐ volume ☐ mass ☐ weight ☐ density	Q.26	The use of oil and grease in a machine reduce its ☐ mass ☐ weight ☐ friction ☐ efficiency

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Q.21	All are electromagnetic devices except ☐ radio ☐ electric bell ☐ electric bulb ☐ television	Q.27	Water runs slowly through ☐ silt ☐ sand ☐ clay ☐ loam
Q.22	When a ball pen is rubbed with hair, the small pieces of paper are attracted towards pen, because of ☐ sticky nature of pen ☐ sticky nature of paper ☐ electric charge ☐ magnetic force	Q.28	The closest planet to earth is ☐ Saturn ☐ Mercury ☐ Pluto ☐ Jupiter
Q.23	In rainy days lightning is caused by ☐ static charges ☐ moving charges ☐ high pressure ☐ thunder storm	Q.29	The device which discovered that light travels in a straight line is ☐ microscope ☐ pin hole camera ☐ prism ☐ telescope
Q.24	Light travels a _____ path ☐ straight ☐ curved ☐ rectangular ☐ zig zag	Q.30	Iron objects are lifted by crane as shown in figure due to  ☐ light weight of iron objects ☐ heavy weight of crane ☐ electromagnet used in crane ☐ hook of the crane

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Result.pk

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ہدایات:

- 1- ہر سوال کا جواب دینا ضروری ہے۔
- 2- جواب دینے سے پہلے سوال کو غور سے پڑھیں۔
- 3- سوال کا جواب دی گئی جگہ پر تحریر کریں۔

Time Allowed: 75 Minutes

SECTION – B

Total Marks: 45

1. Write two characteristics of flowering and non-flowering plants. 4 Marks

2. (a) Define soil 1 Mark

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(b) Write the names of 2 types of soil.

1 Mark

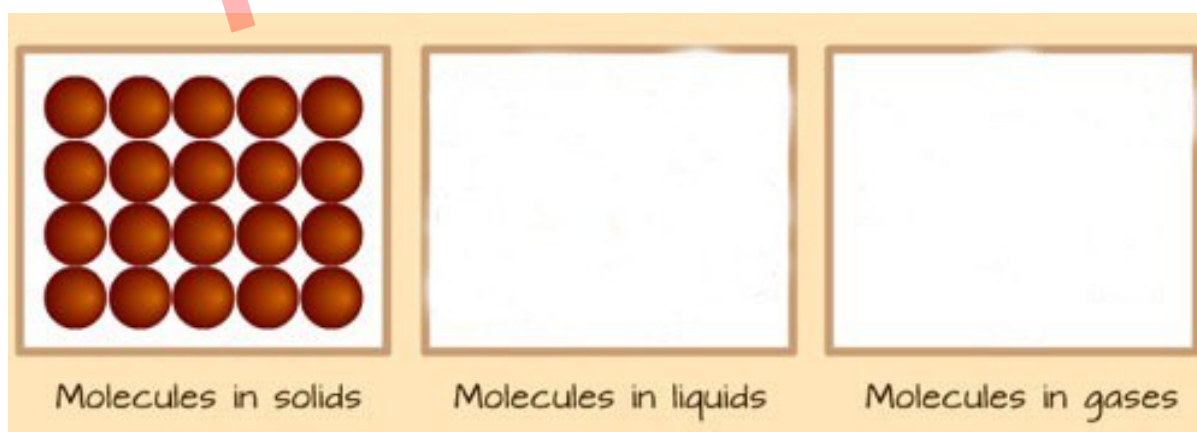
3. Give TWO examples of each of the following.

4 Marks

S.No	Vertebrates	Invertebrates
1		
2		

4. Draw the arrangement of molecules in liquids and gases.

4 Marks



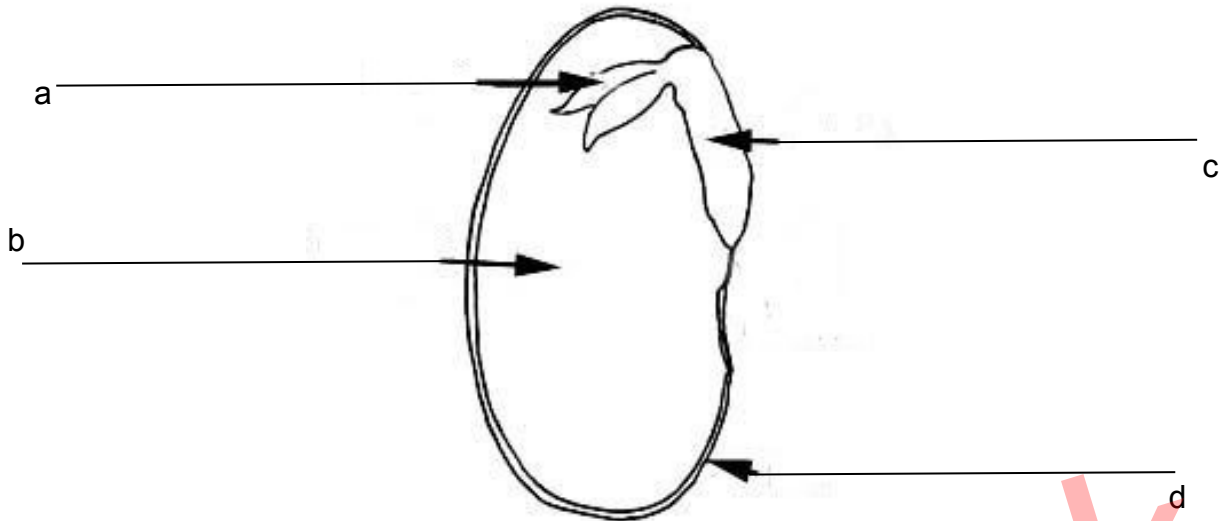
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5. Label the given seed diagram.

4 Marks



6. Arrange these bar magnets to make a square (label north and south pole on each bar magnet).

4 Marks



7. (a) Why do we use fuse in a circuit?

2 marks

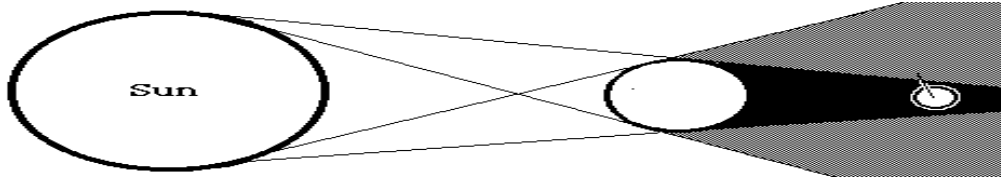
(b) Name the eclipse.

2 marks

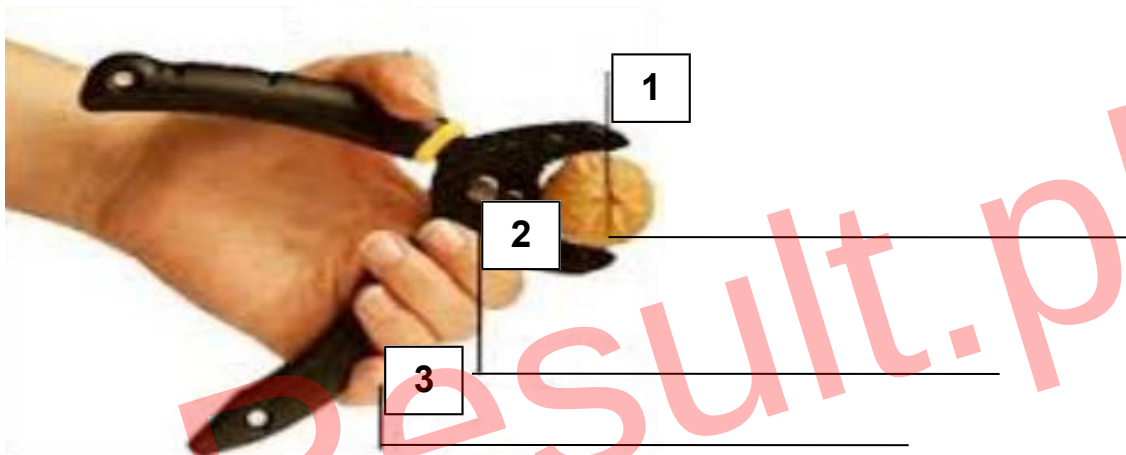
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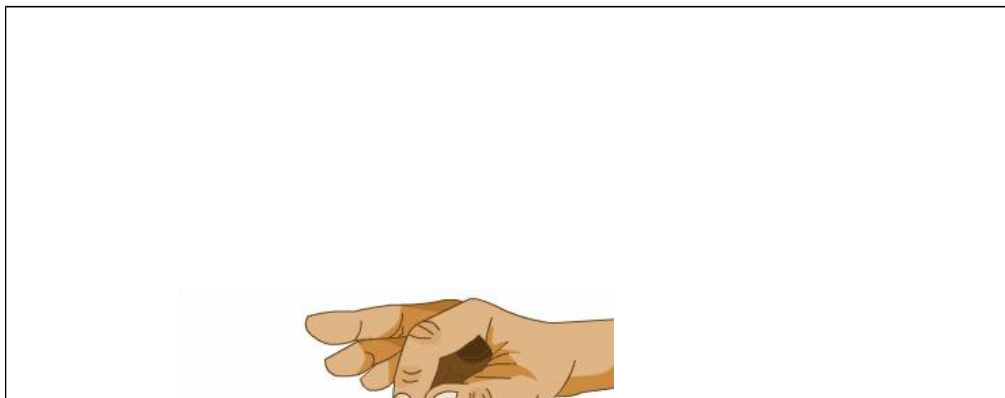
8. Identify the type of lever show below, also write fulcrum, load and effort at their proper place. 4 Marks



Lever type: _____

9. Draw a closed electric circuit. (Showing cell, wire, bulb)

4 Marks



10. If you hit the  coin and why?

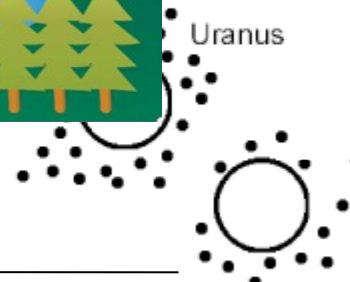
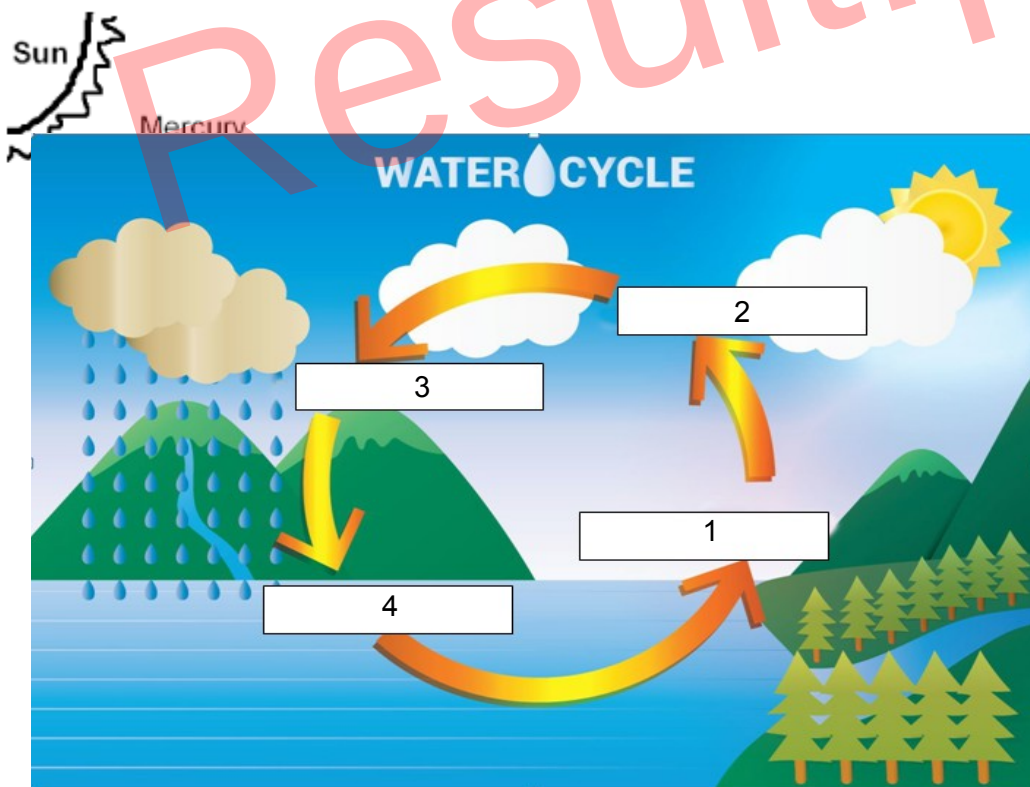
4 Marks

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Result.pk

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Marking Criteria for Section B

Q.1. 4 Marks

	Possible Answers	Marks
Flowering Plants	Flowering plants produce flowers for their reproduction	1
	Flowering plants produce seeds and seeds germinate into new plants	1
Non- flowering plants	Non flowering plants do not bear flowers	1
	They grow on damp soil near drainage pipes type	1

Q.2. 2 Marks
 (a)

Possible Answers	Marks
Soil is the major portion of the Earth's surface which supports the growth of plants and provides shelter for different animals.	0.5

(b)

Possible Answers	Marks
(i) Sand (ii) Clay (iii) Silt	0.5 for each option (Total 1.5 for all 3 correct answers)

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Marking Criteria for Section B

Q.3. 4 Marks

	Possible Answers	Marks
Vertebrates	Name of any two animals with backbone e.g. (i) Fishes (ii) Frogs (iii) tortoise (iv) snakes (v) crocodile (vi) sparrow (vii) kiwi	2
Invertebrates	Name of any two animals without backbone e.g. (i) Mosquito (ii) Cockroach (iii) Ant	2

Q.4. 4 Marks

Possible Answers	Marks
Liquid molecules: distance shown between molecules is more than the solid	2
Gas molecules: distance shown between molecules is more than the liquid	2

Q.5. 3 Marks

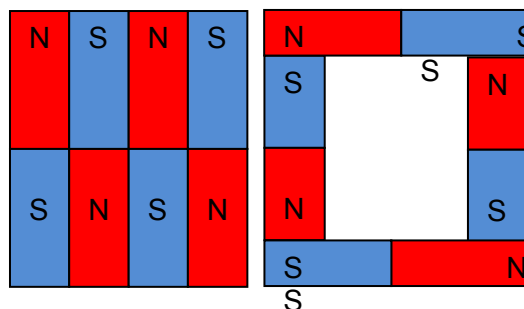
Possible answer	Marks
a) Epicotyl: upper left label	1 marks for each correct label
b) Cotyledons: lower left label	
c) Hypocotyl: upper right label	
d) Seed Coat: lower right label	

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Marking Criteria for Section B

Q.6.

4 magnets together with 4 correct direction:	04 marks
4 magnets together with 3 correct direction:	03 marks
4 magnets together with 2 correct direction:	02 marks
2 or 3 magnets together with 2 correct direction:	01 marks
All 4 incorrect direction:	0
All separate magnets:	0



4 Marks

Q.7.

(a).

4 Marks

Possible answer	Marks
We use fuse in a circuit to stop the flow of current when it exceeds the safety level.	2

(b).

2 Marks

Possible Answer	Marks
Lunar Eclipse	2

Q.8.

4 Marks

Possible Answers	Marks
a) load	1 mark for each correct labelling
b) fulcrum	
c) effort	
d) lever type: first class lever	1

Q.9.

4 Marks

a) Possible Answer	Marks
b) Showing Cell	1 for each correct labelling
c) Showing Wire	
d) Showing bulb	
e) Cell, wire and bulb are connected	1

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Marking Criteria for Section B

Q.10.

4 Marks

Possible Answer	Marks
The coin will drop into glass	2
The coin will drop into glass due to inertia. Heavier the weight the higher will be inertia and more force is required to change it from the original position. Since the coin is heavier than the thick card, so flicking the card will move the piece of card due to less inertia (light weight). The coin will drop into glass due to inertia (heavy weight)	2

Q.11.

4 Marks

Possible answer	Marks
1) Evaporation	1 marks for each correct label
2) Condensation	
3) Precipitation	
4) Collection	

Q. 12.

3 Marks

Possible Answer	Marks
1) Earth	1 for each correct labelling
2) Saturn	
3) Neptune	
4) Neptune	