

## PUNJAB EXAMINATION COMMISSION EXAMINATION 2016, GRADE 5 SCIENCE PART – B (Subjective Type)

**Model Paper 1** 

## **Rubric with Model Answers**

## **Instructions:-**

Main points of answer are given below each question. Marks for these point are given against them. A student may present these points in the form of paragraph or points, both cases are acceptable. If a student writes anything other than these points and if that is correct, he/she should be awarded with marks.

بدایات:-

ر · ) پو دوں کی کوئی سی چار خصوصیات تحریر کریں۔

Rubric (a): Award one mark for each correct characteristic.

Any four properties

Multicellular organisms (1), root, stem and leaves are important parts (1), have chlorophyll (1), carry out photosynthesis (1), and have cell wall in their cells (1).

ایک صحیح خصوصیت کاایک نمبر دیں۔ کوئی سی داد خصوصات

Q.(b) Give two basic differences between flowering and non-flowering plants.

(4)

پھولدار اور غیر پھولدار بو دوں میں دوبنیادی فرق تحریر کریں۔

Rubric (b): Award two marks for each correct difference.

ایک صحیح فرق کے دونمبر دیں۔

چولدار پودے Flowering plants		فیر پھولدار پو دے Non flowering plants	
Have flowers (1)		Don't have flowers (1)	
	پھول رکھتے ہیں (1)	(	پھول نہیں رکھتے (1
Seeds are present inside the fruit (1)		Seeds are present on cones (1)	
(1)	بہے پھل کے اندر ہوتے ہی	(1)	نیچ کونز پر ہوتے ہیں(

Q.(c) Why are flowering plants more in number than non-flowering plants?

(2)

پھولدار بودے غیر پھولدار بودوں سے تعداد میں زیادہ کیوں ہوتے ہیں؟

Rubric (c): Award two marks for appropriate reason.

Because they have flowers (1) and flowers are the best organs for reproduction (1).

مناسب وجہ کے دونمبر دیں۔

Question. No. 27. (a) What is infection and how do we catch it?

(1+2)

Rubric (a): Award one mark for definition of infection and two marks for appropriate reason of catching infection.

Infection: The disease which is because of germs. (1)

It spreads when germs enter in our bodies and attack our cells (1), reproduce in our cells and destroy them (1).

coughing (1), through vectors (1).

Q. (c) Suggest four ways for prevention of infections.

Rubric (c): Award one mark for each correct suggestion.

Any four methods: avoid from crowded places (1), wash hands before eating (1), cover your mouth while sneezing or coughing (1), use drinking water after boiling (1), save eatables from flies (1).

Rubric (a): Award one mark for each correct characteristic.

Any four properties: not fixed shape (1), fixed volume (1), irregular arrangement of particles (1), strong forces of attraction but weaker than those of solid (1).

Rubric (b): Award two marks for each correct difference.

ایک صحیح فرق کے دونمبر دیں۔

Evaporation ﷺ	ابان Boiling	
Change of a liquid into vapours without heating.	Change of liquid into vapours with heating. (1)	
(1)	حرارت کے ساتھ مائع کا بخارات میں تبدیل ہونا(1)	
بغیر حرارت کے مائع کا بخارات میں تبدیل ہونا(1)		
It takes place only on surface. (1)	It takes place in the body of liquid as well. (1)	
يدايك سطى عمل ہے(1)	یہ تبدیلی مائع کے اندر بھی ہوتی ہے(1)	
It takes place at all temperatures. (1)	It takes place at a fixed temperature. (1)	
ہر درجہ حرارت پر ہوتی ہے(1)	صرف خاص در جہ حرارت پر ہو تاہے(1)	

Rubric (a): Award one mark for definition and one for correct example.

i. Star: A hot ball of gases which has its own light (1), e.g; sun (1).

i. ستاره

<u>Planet:</u> A ball of rocks which does not have its light (1), e.g. earth (any one out of eight planets) (1).

<u>Dwarf planet:</u> a heavenly body smaller then a true planet but bigger than a comet or asteroid (1), e.g. Pluto (1).

Q. (b) Write names of first four planets closest to the Sun in the right sequence.

Rubric (b): Award one mark for the name of each planet at correct order. Mercury (1), Venus (1), Earth (1), Mars (1).

Question. No.30. Identify two examples of each of luminous, non-luminous, transparent, translucent and opaque objects from the list of following objects. (2\*5=10)

(Sun, Table, Book, Clear water, Brick, wall, Tissue paper, Bulb, Clear glass, Tracing Paper)

Rubric: Award one mark for placing each object at correct place.

ایک چیز کواس کی درست جگه پرر کھنے کاایک نمبر دیں۔

	-4 7 4 7 7 7 7
Luminous objects روشن اجهام	Sun, bulb(2)
	سورج، بلب، (2)
	Any two other than sun and bulb (2)
Non-luminous objects غير روشن اجهام	سورج اور بلب کے علاوہ کوئی سے دو(2)
	Clear Water, Clear Glass (2)
شفاف اجسام Transparent objects	صاف پانی، صاف شیشه (2)
	Tissue Paper, Tracing Paper (2)
Translucent objects نيم شفاف اجهام	ٹشو ہیپر، نقل بنانے والا پیپر (2)
	Table, Book (2)
Opaque objects غير شفاف اجهام	ميز، کتاب(2)