

**SCIENCE PRACTICE EXAM  
KEY STAGE - 3: (MCQ)**

**FEB 2016**

**Time: 1 Hour      Marks:.....      Name: .....**

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(Answer for all questions and show work out in a separate sheet – Gravity of Earth, 10 m/s<sup>2</sup>)

1. Brain of the cell is;  
a. Cytoplasm      b. Nucleus      c. Ribosome      d. Mitochondria
2. Cellulose is a main constituent of;  
a. Cell membrane      b. Nucleus membrane      c. Cell wall      d. Cytoplasm
3. Enzyme in sperm head is for;  
a. Digest food      b. Digest egg      c. Break egg membrane      d. Break egg
4. Yolk in hen egg is as;  
a. Carrier of DNA      b. Food storage      c. Energy provider      d. b and c
5. Function of Goblet cell is, producing;  
a. Food      b. Acid      c. Mucus      d. None of them
6. Chloroplast is;  
a. Pigment      b. Organelle      c. Part of animal cell      d. Skin cell
7. One of the adaptations in root hair cell is;  
a. Less cytoplasm      b. Large vacuole      c. Thin cell wall      d. All of them
8. DNA is intensively packed in;  
a. Cell      b. Chromosome      c. Ribosome      d. Cytoplasm
9. Main cell reactions are happening with the help of;  
a. Cytoplasm      b. Enzyme      c. Nucleus control      d. None of them
10. Which part in sperm cell should have more energy for its function;  
a. Head      b. Body      c. Stem      d. Tail
11. Forensic studies about ink samples may use one the following;  
a. Fractional distillation      b. Filtration      c. Chromatography      d. Evaporation

12. Most reactive Halogen is;  
a. Cl    b. O    c. F    d. K
13. Main gas in the atmosphere having mixture of various gases is;  
a. O<sub>2</sub>    b. H<sub>2</sub>O    c. CO<sub>2</sub>    d. N<sub>2</sub>
14. Gas which is **not** involving in Global warming;  
a. CO<sub>2</sub>    b. CH<sub>4</sub>    c. NO<sub>2</sub>    d. O<sub>3</sub>
15. Pick most reactive alkali metal from the followings;  
a. Li    b. Mg    c. Na    d. K
16. Which is correct expression of **sodium sulphite**;  
a. Na<sub>2</sub>S    b. Na<sub>2</sub>SO<sub>3</sub>    c. NaSO<sub>4</sub>    d. Na<sub>2</sub>SO<sub>4</sub>
17. Pick an element molecule from the followings;  
a. O<sub>3</sub>    b. H<sub>2</sub>O    c. D<sub>2</sub>O    d. KMnO<sub>4</sub>
18. Iron + Sulphur + Oxygen  $\xrightarrow{\text{Heat}}$  A; Chemical symbol of A may be;  
a. FeS    b. Fe<sub>2</sub>SO<sub>4</sub>    c. FeSO<sub>4</sub>    d. Fe<sub>2</sub>S<sub>3</sub>
19. Which is less denser noble gas among the followings;  
a. H<sub>2</sub>    b. Ne    c. Ar    d. He
20. Crude oil is; mixture of,  
a. Gases    b. non-volatile compounds    c. hydrocarbon compounds    d. metals
21. What is the weight of 900 kg mass in a space object where gravity is 1/30 of earth gravity;  
a. 30 kg    b. 30 N    c. 90 N    d. 300 N
22. A boy driven a motor bike with constant speed in a straight road, where 10 N frictional forces was being applied. If boy's mass is 40 kg then find out force he applied to drive the bike with constant speed on the same road?  
a. 400 N    b. 10 kg    c. 400 kg    d. 10 N
23. The magnetic strength of an electro magnet **can't** be increased by increasing;  
a. Current    b. Length of coil    c. Thickness of wire    d. Number of coils

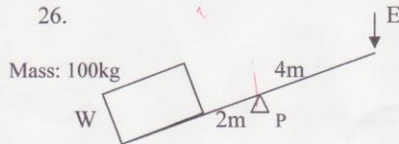
24. The statement "Internal reflection will obey to normal light reflection rule" is;

- a. Always correct
- b. Some time correct
- c. Wrong
- d. Only for mirror

25. Speed of sound in air is nearly 340 m/s, if a supersonic fighter jet can fly 5 times more than speed of sound in air, then find out speed of the jet in air?

- a. 1700 km/h
- b. 6120 km/h
- c. 1224 km/h
- d. None of them

26.



A 100 kg mass was lifted up by using a simple lever. Pivot (P) had been placed 2m away from weight (W) and Effort (E) had been applied 4 m away from pivot in order to have this work done easy.

Find out How much effort had been applied;

- a. 200 N
- b. 500 N
- c. 800 N
- d. 50 N

27. Sathusan said suppose the pivot would have been moved 1 m close to the weight, the effort applied would have been decreased. In order to justify his statement, calculate and find the new effort according to Sathusan's statement. New effort would be;

- a. 200 N
- b. 300 N
- c. 100 N
- d. 20 N

28. Sajeevan refused the statement given by Sathusan and further said pivot would have been moved 1 m further away from current position in order to do work easily. To justify his statement find out new effort he thought? New effort;

- a. 330 N
- b. 1000 N
- c. 33 N
- d. 1500 N

29. Why has Pluto removed from solar system; because of it's?

- a. Moons
- b. Brightness
- c. Size
- d. None of them

30. Why space telescopes are more favour than earth bound telescope?

- a. less distraction
- b. expensive
- c. high technology
- d. a and c

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Comments from Student:.....

Signature from Parents:.....

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