

GREEN PARK MATRIC HR.SEC.SCHOOL , SIRUVACHUR.

FIRST MIDTERM TEST- JULY – 2019

STD: X

TIME: 1.30HRS

SUB: SCIENCE

MARKS: 50 MARKS

I. CHOOSE THE BEST ANSWER

25X1=25

1. The unit of moment a couple is -----.
a) Nm b) N/m c) Newton d) None
2. The unit is impulsive force is -----.
a)Ns b) kgm/s c)both a&b d)None
3. The formula of calculate Mass of Earth -----.
a) $M=gR^2/G$ b) $M=G R^2/g$ c)both a&b d)None
4. The value of acceleration due to gravity on the surface of the moon is -----.
a) 1.625 ms^{-2} b) 1.925 ms^{-2} c) 1.725 ms^{-2} d)all the above
5. calculate the velocity of a moving body of mass 5Kg whose linear momentum is 2.5Kgms^{-1} .
a) 2 ms^{-1} b) 0.5 ms^{-1} c) 5 ms^{-1} d) 2.5 ms^{-1}
6. ----- lenses are used in wide angle spy hole in doors.
a) concave b)convex c)both a&b d)biconcave
7. Compound microscope has ----- times more magnification power than simple microscope.
a) 50—100 b) 50—200 c)50—250 d) 100—150
8. Which microscope used in jewelers?
a) compound b) simple c) cylindrical d) both a& b
9. The mass of proton is approximately ----- amu . a) 2 amu b) 1amu c)3amu d) 4 amu
10. The first scientific theory of the atom was proposed by -----.
a)Rutherford b) J.J. Thomson c) Neils Bohr d)None
11. The Diameter of eye ball is approximately -----
a) 2.5cm b) 2.3 cm c)2.1cm d) 2.0cm
12. The value of cubical expansion of mercury is -----
a) $18.2 \times 10^{-5} \text{ k}^{-1}$ b) $20.7 \times 10^{-5} \text{ k}^{-1}$ c) $6 \times 10^{-5} \text{ k}^{-1}$ d)None
13. The unit of ionization energy is -----
a) kJ/mol b) kJmol^{-1} c) both a&b d) kJ

14. The melting point of aluminium -----

- a)600⁰C b)620 ⁰C c)640 ⁰C d)660⁰C

15. which of the following low density metal?

- a) copper b)Iron c) aluminium d) all the above

16.The blister copper contains ----- % pure copper and -----% of impurities.

- a)95.5& 4.5 b) 98& 2 c)99 & 1 d)99.5& 0.5

17. The diameter of chloroplast is -----.

- a) 2-10micrometer b) 2-8 micrometer c)5-10 micrometer d)None

18. The mitochondria shape is -----.

- a)0.2-0.5micrometer b)0.2-2 micrometer c)0.5-2.0micrometer d)all the above

19. Mitochondrial membrane size of ----- .

- a)50-70Å b)60-70 Å c)50-60 Å d) 40-50Å

20. ----- is the largest portion of alimentary canal.

- a) buccal cavity b) crop c) anus d) rectum

21. Leeches prevent blood clotting by secreting a protein called-----.

- a) crop b) hirudin c) papillae d) none

22. The floor of the buccal cavity is occupied by a -----tongue

- a) muscular b) caecum c) tear d) None

23. ----- teeth are absent in rabbit.

- a) premolar b) incisors c) molar d)canines

24. who is the father of modern physiology?

- a) W.Harvi b) His c) N.grew d) None

25. The body nervous system can transmit signals at speeds of -----.

- a) 350km/h b) 220 c) 220mph d) both a& c

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FIRSTMIDTERM TEST – JULY 2019

STD: X
SUB: SCIENCE

TIME: 30 MINUTES
MARKS: 75 MARKS

I. CHOOSE THE BEST ANSWER

15X1=15

1. The unit of 'g' is ms^{-2} . It can be also expressed as -----?
a) cms^{-1} b) Nkg^{-1} c) $\text{Nm}^2\text{kg}^{-1}$ d) cm^2s^{-2}
2. In which of the following sport turning of effect of force used-----?
a) Swimming b) Tennis c) Cycling d) Hockey
3. Magnification of a convex lens is -----?
a) Positive b) Negative c) both a&b d) Zero
4. The eye defect 'Presbyopia' can be corrected by----- lens?
a) Concave b) Convex c) Bifocal d) None
5. Which of the following is a triatomic molecule?
a) Glucose b) Helium c) Carbon di oxide d) Hydrogen
6. The volume occupied by 1 mole of a diatomic gas at STP is ----?
a) 11.2 litre b) 22.4 litre c) 5.6 litre d) 44.8 litre
7. ----- group contains the number of Halogen family? a) 17 b) 15 c) 16 d) 18
8. The chemical formula of rust is -----?
a) $\text{Fe}_x\text{H}_2\text{O}$ b) $\text{FeO}_4.x\text{H}_2\text{O}$ c) FeO d) $\text{Fe}_2\text{O}_3.x\text{H}_2\text{O}$
9. ----- is an important metal to form amalgam. a) Ag b) Hg c) Mg d) Al
10. The endarch condition is the characteristic feature of ----?
a) Root b) Stem c) Leaves d) Flower
11. Glycolysis takes place in -----? a) Chloroplast b) Cytoplasm c) Mitochondria d) None
12. ----- pairs spinal nerves are present in rabbit. a) 35 b) 37 c) 32 d) 36
13. Mammals are ----- blooded animals. a) Warm b) Cold c) Poikilothermic d) None
14. 'Heart to heart' is called -----?
a) AV node b) SA node c) Purkinji fibers d) None

15. Vomiting centre is located in -----?

- a) Stomach b) Cerebrum c) Hypothalamus d) Medulla oblongata

II. ANSWER THE ANY 20 QUESTION

20X2=40

16. State Newton's second law?

17. Define moment of a couple?

18. Difference between mass and weight?

19. How does an astronaut float in a space shuttle?

20. State Snell's law?

21. State Rayleigh's law of scattering?

22. Why are used traffic signals red in colour

23. What is power of accommodation of eye?

24. Define Relative Atomic Mass.

25. Find the percentage of nitrogen in Ammonia?

26. Define Atomicity.

27. Calculate the number of moles in 27g of Aluminium ?

28. Explain smelting process?

29. What are the uses of Aluminium?

30. A is a silvery white metal. A combines with O_2 to form B at $800^\circ C$, the alloy of A is used in making the aircraft. Find A and B?

31. Write the uses of Iron?

32. What is respiratory quotient?

33. Write a short note on Mesophyll?

34. Name the three basic tissues system in following plants?

35. Write the dental formula of rabbit?

36. How is diastema formed in rabbit?

37. Draw and label the structure of oxysomes?

38. Give the common name of the *Hirudinaria granulosa* and *Oractologus cuniculus*?

39. Why is the teeth of rabbit called heterodont?

40. What is cohesion?

41. Name two layered protective covering of human heart?

42. What are heart sounds? How are they produced?

43. Difference between systemic circulation and pulmonary circulation?

44. Name the parts of the hind brain?

45. What is the function of thalamus and cerebellum?

46. Define corpora quadrigemina?

47. Write a short notes on pons?

III. ANSWER THE ALL QUESTION

4X5=20

48. With a neat labelled diagram explain the structure of a neuron? **(OR)**

Enumerate the function of blood?

49. List out the parasitic adaptations in leech? **(OR)**

Difference between (i) Monocot root and Dicot root (ii) Aerobic and anaerobic respiration?

50. List out the properties of light? **(OR)**

State and prove the law of conservation of linear momentum?

51. (i) Give the salient features of modern atomic theory? (ii) Calculate the number of water molecule present in one drop of water which weights 0.18 g **(OR)**

A is a reddish brown metal which combines with O_2 at $<1370\text{ K}$ gives B, a black coloured compound.

At a temperature $> 1370\text{ K}$, A gives C which is red colour. Find A,B,C with reaction?

MOTIVATIONAL

THOUGHTS

HARD WORK BEATS TALENT

WHEN TALENT

DOES NOT WORK HARD....

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