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12×1=12

## Standard 10

Time: 3.00 Hrs.

# SCIENCE

Maximum Marks: 75

### PART - I

Choose	the best answer:
1)	Where should an object be placed so that a real and inverted image of same
	size is obtained by a convex lens?
	a) f b) infinity c) 2f d) between f and 2r
· 2)	a) f b) infinity c) 2.  If a molecule is made of similar kind of atoms, then it is called molecule.  If a molecule is made of similar kind of atoms, then it is called molecule.
	a) mana atomic h) hetero atomic c) nomo deorme
3)	a cheed of about
	a) $340 \times 10^8$ m/s b) $340$ m/s c) $3 \times 10^{-11/3}$
4)	Which of the following is the universal solvent?
	a) Acotono h) Benzene c) Water d) Alcohor
5)	Alloy used in the manufacturing of pressure cooker is
	a) Prace b) Bronze C) May I diluiti
6)	The IUPAC name of an organic compound is 3-methyl butan-1-ol. What type
	of compound it is?
	a) Aldehyde b) Carboxylic acid c) Ketone d) Alcohol
7)	The concept of blood group is derived by
	a) Wiener b) Karl Landsteiner c) William Harvay d) His
. 8)	Male gametes in angiosperms are formed by the division of
	a) Generative cell b) Vegetative cell
	c) Pollen grain mother cell d) Microspore
9)	Which one is referred as "Master Gland"?
	a) Pineal gland b) Pituitary gland c) Thyroid gland d) Adrenal gland
10)	Life originates from pre-existing life was showed by
,	a) Louis Pasteur b) Oparin c) Haldane d) Lamarck
11)	Match the following:
	a) Solar energy - i) Flowing water
	b) Petroleum - ii) Mobile phone
	c) Hydropower - iii) Inexhaustible energy
	d) Electronic device - iv) Exhaustible energy resource
	a) (1) - (iv), (2) - (iii), (3) - (ii), (4) - (i)
•	b) (1) - (iii), (2) - (iv), (3) - (i), (4) - (ii)
	c) (1) - (iii), (2) - (i), (3) - (iv), (4) - (ii)
	d) (1) - (i), (2) - (iv), (3) - (ii), (4) - (iii)
12)	Find the correct pair:
	a) Gregor Johann Mendel - Theory of Natura selection
	b) Waldeyer - Chromosomes
	c) Watson and Crick - Theory of Evolutio
	d) Jean Baptiste Lamarck - Law of Heredity
PART-II	
	Answer any seven questions. 7×2=14

No

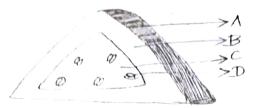
- 13) Define inertia. Give its classification.
- 14) Why does the sky appear blue in colour?
- 15) Write any 2 uses of Ethanol.

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17) List out the parasitic adaptations in leech.

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18) Identify the parts A, B, C, D in the given figure.



- 19) Distinguish between somatic gene therapy and germ line gene therapy.
- 20) How is cancer cell different normal cell?
- 21) What is sprite?
- 22) A person with myopia can see objects placed at a distance of 4m. If he wants to see objects at a distance of 20m, what should be the focal length and power of the concave lens he must wear?

### PART - III

# Note: Answer any seven questions. Question No. 32 is compulsory.

23) a) Write the symbol for the following component.

(i) Ground connection

(ii) Resistor

7×4=28

(iii) Light emitting diode

- (iv) A diode
- b) A charge of 12 coulomb flows through a bulb in 5 seconds. What is the current through the bulb?
- 24) Differentiate the eye defects: Myopia and Hypermetropia
- 25) a) How is rust formed? Give the equation for formation of rust.
  - b) State 2 methods of preventing corrosio.
- 26) a) What is an amalgam? Give an example.
  - b) Mention any two uses of copper.
- 27) Name the gaseous plant hormone. Mention any three of its physiological effects in plants.
- 28) a) What is respiratory quotient?
  - b) Write the overall reaction for photosynthesis.
- 29) Explain the structure of chromosome.
- 30) a) List the theories postulated to explain the origin of life.
  - b) Who coined the term 'Ethnobotany'?
- 31) a) What do you understand by the term phenotype and genotype?
  - b) What are allosomes?
- 32) 'A' is a blue coloured crystalline salt on heating it loses blue colour and gives 'B' When water is added, 'B' gives back 'A'. Identify 'A' and 'B'. Write the equation.

### **PART-IV**

# Note: Answer ALL the questions. Draw diagrams wherever necessary. 3×7=21

33) a) State Newton's laws of motion.

### (OR)

- b) i) What discovered natural radioactivity?
  - ii) Write any three features of natural and artificial radioactivity.
  - iii) Give any three uses of radio isotopes in the field of agriculture.
- 34) a) i) Define: Atomicity. Give an example.
  - ii) Consolidate the major differences between atoms and molecules.

### (OR)

- b) i) Differentiate reversible and irreversible reaction.
  - ii) What is neutralization reaction? Give an example.
  - iii) Give any three characteristics of homologous series.
- 35) a) i) What are synthetic auxins? Give examples.
  - ii) Define triple fusion.
  - iii) Name the secondary sex organs in male.

### (OR)

- b) i) Which enzyme cuts DNA at specific sites? kindly send me workers to brus encilled mind acid, yet @ gmail.com of 2.
  - iii) Explain smoking hazards and the harmful effects of tobacco.