

First Revision → 2019

SCIENCE - I

I Choose the best answer

- 8) Scattering
 9) 56g
 10) oxidation reaction.
 11) Galvanization.
 12) Propyne
 13) Nitrogen.
 14) 110W
 15) Convex mirror

Answer in one (or) two sentences.

II Differentiate saturated and unsaturated → 2m

32) Solution (Any two point) → (1+1)

33) correct definition: Brownian movement → (2m)

34) Formula

$$\text{No. of moles} = \frac{\text{No. of molecules}}{6.023 \times 10^{23}} \rightarrow 1m$$

$$= \frac{3.0115 \times 10^{23}}{6.023 \times 10^{23}}$$

$$= 2 \text{ moles.} \rightarrow 1m$$

$$35) \text{ No. of particles} = \frac{6.023 \times 10^{23} \times \text{g.M}}{\text{G.M.M}} \rightarrow 1m$$

$$= 12.023 \times 10^{23} \text{ particles.} \rightarrow 1m$$

36) Differentiate Exo - Endo (any two points) $\rightarrow 2m$

37) MA

38) Differentiate ore - minerals (any two points) $\rightarrow 2m$

39)

a) Gangue $\rightarrow 1m$

b) Ag-Sn amalgam $\rightarrow 1m$

40) correct definition esterification $\rightarrow 1m$

Example. $\rightarrow 1m$

41) correct reason. $\rightarrow 2m$

42) correct definition (conservation of momentum) $\rightarrow 2m$

43) Differentiate mass and weight (any two point) $\rightarrow (1+1)$

44) correct definition newton's law of gravitation $\rightarrow 2m$

45) correct statement joule's law $\rightarrow 2m$

46) series (or) parallel $\rightarrow 2m$

47) yes $\rightarrow 2m$

Answer in detail

52) Define: vapour density $\rightarrow 1m$

Relative molecular mass $\rightarrow 1m$

Derivation $\rightarrow 3m$

53) common name $\rightarrow 2\frac{1}{2}m$

IUPAC name $\rightarrow 2\frac{1}{2}m$

54) Define (coryonics) → 2m

Any two application → $1\frac{1}{2} + 1\frac{1}{2}$

55)

i) myopia → 1m

ii) Thinner in the middle → 2m

(ii) $f = \frac{1}{p}$ Right eye has greater focal length → 2m

Teacher's handling

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12/1

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STID: X
SUB: BIOLOGY

FIRST REVISION EXAM - Jan, 19.

SCIENCE - II - SCORING / ANSWER KEY

Section - A

I. Choose the best Answer :: 7 x 1 = 7

1. Blastula of early embryo 2. Down's Syndrome 3. Pachytene
4. Ornithophily 5. Cat 6. Ethanol 7. Primary treatment.

II Answer any ten of the following :- 10 x 2 = 20

16. Define Variation - 1 mark
Types of Variation - 1 mark
(5 types)

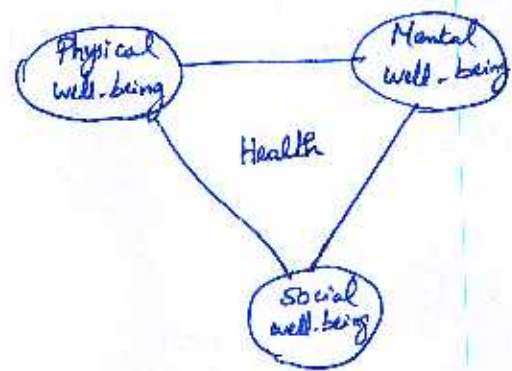
17. Basic techniques in Genetic Engineering :-

A. Restriction enzymes or Restriction endonucleases are molecular scissors which cut DNA at specific sites.

B. DNA ligases are the paste enzymes which help in joining the broken DNA fragments.
each carries 1 mark.

18. Uses of Biosensor - Any 2 uses - 2 m

19. Complete the following :- (1+1) m



20. Thyroxine : Personality hormone
Adrenaline and nor adrenaline : Emergency hormone (2 x m)
Oxytocin : Birth hormone (1 m)

21. Copy the diagram and label the parts:-

Diagram - 1m

Labelling - $\frac{1}{2} + \frac{1}{2}$ m

22. * Epidermal hair

* Milk producing glands

are the two characteristic features of Mammals.
(2 points - 2m)

23. Excretion in plants :-

* by cellular vacuoles * leaves that fall
* Waste products are stored as resins and gums,
especially in old xylem tissues.

* excrete some waste substances into the soil
around them. each 1 m

(Any 2)

24. Define respiration - 1m

Equation of aerobic respiration - 1m

25. Alternatives to Petroleum - based vehicle fuels

1. Internal combustion engines

2. Electricity, Compressed air (or) fuel cells

3. Compressed natural gas used by natural
gas vehicles. (any 2 - 2m)

26. Jo match :- ($\frac{1}{2} \times 4 = 2m$)

a) Fish - fins

b) Camel - hard skin

c) Frog - hind limbs with web

d) Birds - wings

27. i) Carbon - (1 m)
 ii) A - Photosynthesis B - Respiration C - Combustion
 D - Decomposition (1 m)
28. Correct definition for Energy Audit - 2 m
29. i) Denmark is called country of winds - (1 m)
 ii) Kanyakumari district of Tamilnadu we have wind energy form.
30. Complete the following :-
 Fish : Ammonotelic organism (1 m)
 Birds : Uricotelic organism (1 m)
31. Any two controversial points carries (2 m)
 Aerobic and Anaerobic respiration.

Section - C

Group - A

48. (i) Immunization schedule - 3 m
 (ii) Diseases that can be cured - 2 m

(or)

49. a) Pons e) Thalamus
 b) Medulla oblongata f) Hypothalamus
 c) Fore brain g) Hind brain
 d) Cerebral cortex h) cerebellum

Group - B

50. Fertilization - (1 m)

i) Explanation of development process - (2 m)

ii) Process of fertilization - (2 m)

(or)

51. Methods Adopted for the disposal of harmful waste

* Land fills (1 m)

* Deep well injection (1 m)

* Incineration (2 m)

Mentioning - (1 m)

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