

SSC

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2025 III 12 1100 – **N 853** – SCIENCE AND TECHNOLOGY (72) – PART II (E)
(REVISED COURSE)

Time : 2 Hours

(Pages 8)

Max. Marks : 40

- Note :—**
- (i) All questions are compulsory.
 - (ii) The numbers to the right of the questions indicate full marks.
 - (iii) In case of MCQs [Q. No. 1 (A)] only the first attempt will be evaluated and will be given credit.
 - (iv) Scientifically and technically correct, labeled diagrams should be drawn wherever necessary.
 - (v) Each new question should be started on the new page.

P.T.O.

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1. (A) Choose the *correct* option and write the correct alternative : 5

(i) A molecule of glucose is completely oxidised in aerobic respiration and molecules of H_2O and are produced along with energy.

- (A) CO_2
(B) O_2
(C) NaOH
(D) HNO_3

(ii) Vinegar contains acid.

- (A) acetic
(B) lactic
(C) tartaric
(D) hydrochloric

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- (iii) Any nucleotide of the gene suddenly changes its position that causes a minor change which is nothing but the
- (A) changes
 - (B) mutation
 - (C) disability
 - (D) translocation
- (iv) In humans, sperm production occurs in the organ.
- (A) vas deferens
 - (B) ejaculatory duct
 - (C) testes
 - (D) urinogenital duct
- (v) Solar photovoltaic cell converts the solar radiation energy directly into energy.
- (A) Chemical
 - (B) Solar
 - (C) Mechanical
 - (D) Electrical

P.T.O.

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(B) Answer the following questions : **5**

(i) Find the odd one out :

Fragmentation, Regeneration, Budding, Fertilization.

(ii) Write the correct co-relation :

Diabetes : Insulin :: Cancer :

(iii) State whether true or false :

Study of fossils is an important aspect of the study of evolution.

(iv) Give any *two* commercial uses of Biotechnology.

(v) Being a fish, I perform respiration with the help of lungs. Who am I ?

2. (A) Give scientific reasons (any two) : **4**

(i) Sometimes, higher plants and animals too perform anaerobic respiration.

(ii) It is not right to consider the mother responsible, for giving birth to a girl child.

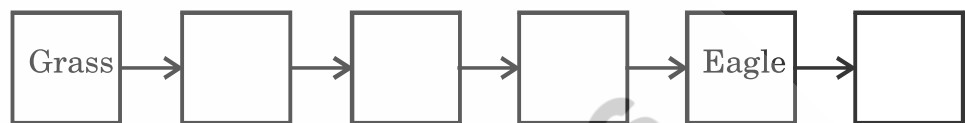
(iii) The energy generated from nuclear fuels is not environment friendly.

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(B) Answer the following questions (any *three*) :

6

(i) Complete the following food chain :



(ii) Distinguish between the following :

Class Pisces and Class Reptiles

(iii) Observe the following picture and write any *two* effects of this disaster :

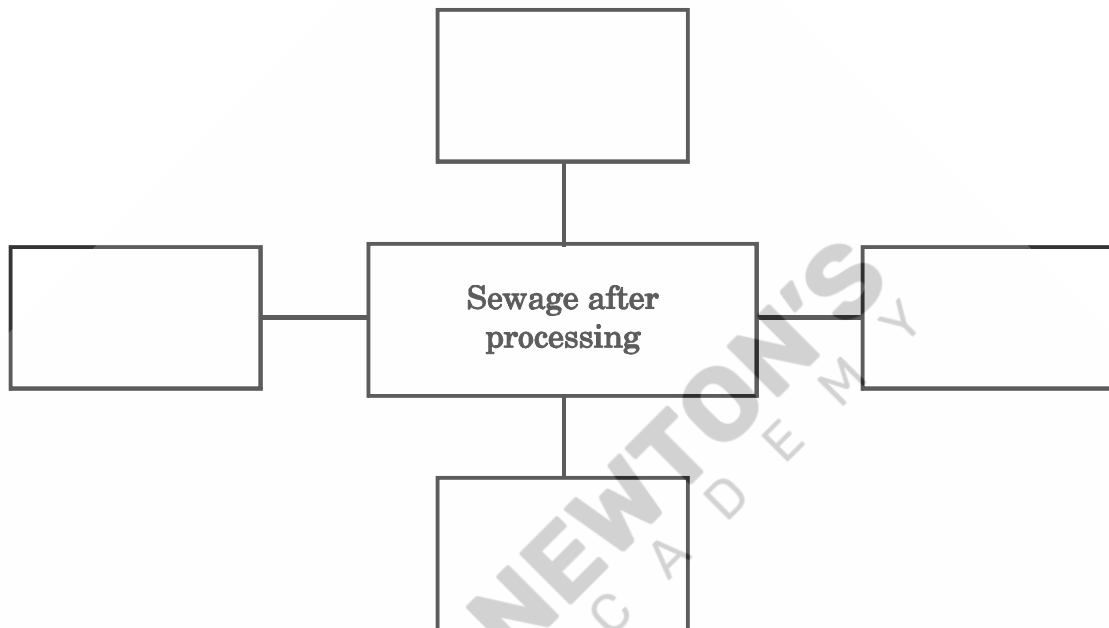


(iv) Write any *four* methods to reduce stress.

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- (v) Complete the following conceptual picture :



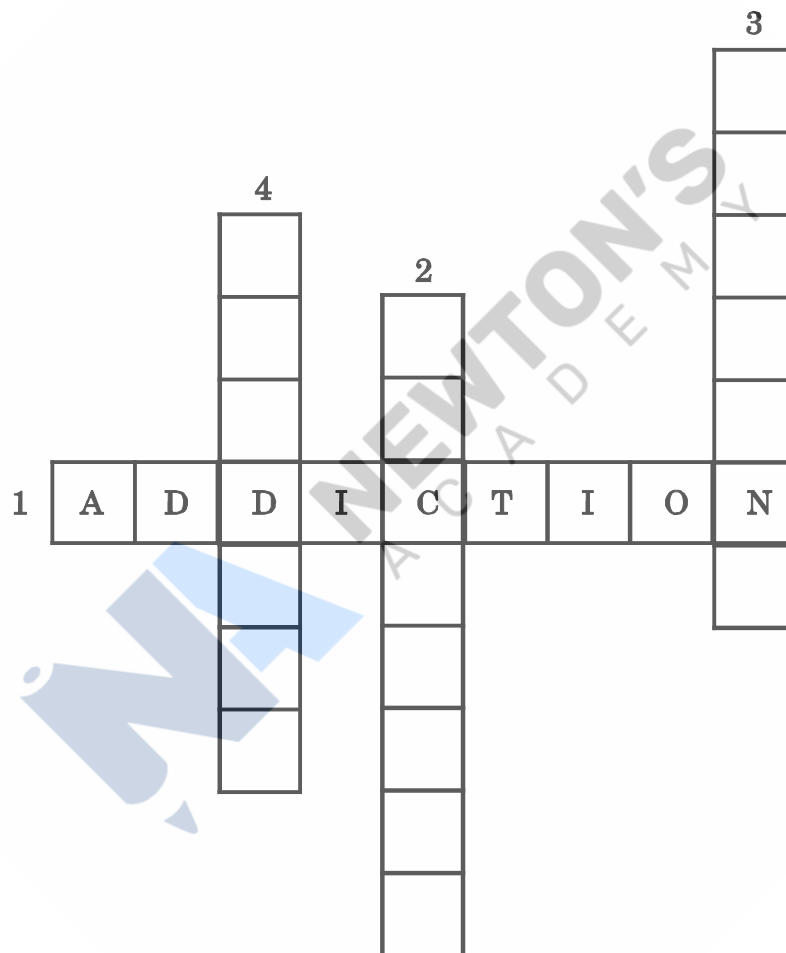
3. Answer the following questions (any five) : **15**

- (i) Define heredity. Explain the mechanism of hereditary changes.
- (ii) Write any *four* stages of mitosis and explain any *two* of them.
- (iii) Explain with examples types of asexual reproduction in unicellular organism.
- (iv) Which fuel is used in thermal power plant ? Write any *two* problems associated with this type of power generation.
- (v) Write *three* characteristics of phylum-Mollusca.

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(vi) What are the constituents of acid rain ? What are its *two* effects on earth's surface ?

(vii) Solve the following crossword :



- (1) Continuous consumption of alcoholic and tobacco materials.
- (2) This app may cause cyber crimes.
- (3) A remedy to resolve stress.
- (4) Requirement for stress free life.

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(viii) Write down the reasons, effects and remedial measures taken for any *one* disaster seen or heard by you.

4. **Answer the following questions (any one) :** **5**

(i) What is biodiversity ? Write any *four* steps to conserve biodiversity.

(ii) What is stem cell ? Write any *four* uses of stem cell.

