TELANGANA OPEN SCHOOL SOCIETY

MODEL QUESTION PAPER

SSC

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Model Question Paper

212 – E (TS)

SSC (TOSS)

Reg. No. : .....

(A)

SCIENCE AND TECHNOLOGY
(Physical Science)

Part – A and B

Time : 3 Hours

Maximum : 100 Marks

PART – A

Time : $2^1/_2$ Hours

Maximum : 80 Marks

Instructions : 1) *Write the answers for questions under Part – **A** in your answer book.*
2) *Write the **correct** numbers of the questions you answer.*
3) *Write **neatly** and **legibly**.*

SECTION – 1

Instructions : 1) *Answer **all** the following questions in **3** or **4** sentences.*
2) ***3** marks will be given for **each** right answer.* **(10×3 = 30 Marks)**

1. Give 3 cases for measuring area in daily life.
2. Hydro electricity production is better than thermal electric production. Support this argument.
3. Why is it advantageous to use Biomass by converting into other forms than in its natural form ?
4. Define the following :
   1) Planet 2) Satellite 3) Comet
5. Match stick burns when we scratch it on the sides of match box. Why ?
6. What are the differences between transverse and longitudinal waves ?
7. What is food chain ? Show how energy flows in a food chain using flow chart.
8. What are the symptoms of AIDS ?
9. Arun is unable to identify blue and green colours. Name the disorder. Explain how this disease is transmitted to him.
10. Draw a labelled diagram of root with root hairs.

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II. Choose from the given words A, B, C, D and indicate the correct answer in the bracket. **(10×1/2 = 5 Marks)**

11) Which of the following is not S.I. unit ? ( )

A) Metre B) Pound

C) Kilogram D) Second

12) Valency of Inert gases is ( )

A) 0 B) 8

C) 7 D) 1

13) 1 litre of volume is expressed in cubic centimeters. ( )

A) 1 B) 10

C) 100 D) 1000

14) Universal solvent ( )

A) Kerosene B) Oil

C) Water D) Petrol

15) General formula of Alkenes ( )

A) C_nH_{2n} B) C_nH_{2n+2}

C) C_nH_{2n-2} D) C_nH_n

16) Distance between two consecutive crests in a transverse wave ( )

A) amplitude B) frequency

C) wave length D) oscillation

17) You can send the copy of certificate by the following ( )

A) Telegraph B) Fax

C) Radio D) T.V.

18) The structural and functional unit of the living being is ( )

A) Lungs B) Cell

C) Stomach D) Tissue

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212 – E (TS)

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May 2015

Reg. No. : .....

(B)

SCIENCE AND TECHNOLOGY
(Physical Science)

PART – B

Time : 30 Minutes

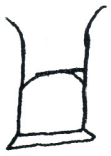
Maximum : 20 Marks

Instructions : 1) *Answer* ***all*** *the questions under Part –* ***B*** *on the question paper itself.*

2) *Attach Part –* ***B*** *sheet to the answer sheet.*

I. Fill in the blanks : **(10×1=10 Marks)**

1) The liquid in adjacent figure indicates _____ meniscus.



2) Atoms attaining 8 electrons in outer most orbit is _____ rule.

3) Motion of the needle of sewing machine is _____

4) The relation between v, u, a and t is _____

5) Due to _____ energy is produced in sun.

6) Expansion of F.M. _____.

7) Having capacity to protect from diseases is called _____

8) We should use _____ bags instead of plastic bags to protect environment.

9) Animals with jointed legs belong to the phyllum _____.

10) In hilly regions, the soldiers carry the materials from one place to another with the help of _____ animal.

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SECTION – 2

Instructions : *1) Answer **all** the following questions in **5** or **6** sentences.*
*2) **Each** question carries **5** marks.* **(8×5=40 Marks)**

11. Define Atomic radius, Ionisation energy and explain the trend of Atomic radius in period and group.

12. Balance the following equations :
    i) $H_3PO_3 \rightarrow H_3PO_4 + PH_3$
    ii) $Ca + H_2O \rightarrow Ca(OH)_2 + H_2$
    iii) $C_3H_8 + O_2 \rightarrow CO_2 + H_2O$
    iv) $CH_4 + O_2 \rightarrow CO_2 + H_2O$
    v) $H_2O_2 \rightarrow H_2O + O_2$.

13. Define and give Units of following :
    1) Speed 2) Velocity 3) Acceleration.

14. Explain the construction of clinical mercury thermometer with the help of a neat diagram.

15. Mention the uses of radio isotopes.

16. Explain in brief, the agricultural practices to be followed to get more yield.

17. Describe the structure of nephron.

18. You identified that some people in your area are suffering from headache, high fever with periodical shivering. Identify the disease, disease causing organism and mode of transmission. Mention the controlling measures you take to control the disease.

SECTION – 3

Instructions : *Draw a **neat** labelled diagrams and **each** question carries **5** marks.* **(2×5=10 Marks)**

19. Draw the experimental set-up to show that air contains Oxygen and Nitrogen.

20. Draw a neat labelled diagram of Nerve cell or Neuron.

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19) There is decrease in rainfall year by year in your area. Which natural activity do you suggest to solve this problem ? ( )

A) planting more number of trees B) deforestation

C) reducing air pollution D) cloud seeding

20) Spraying of more of insecticides and pesticides in the fields leads to ( )

A) land pollution B) air pollution

C) both A and B D) none

III. Match the following : **(10×$^1/_2$=5 Marks)**

A		B
21) Inert gas	( )	A) Thorium
22) Halogen	( )	B) Argon
23) Ionic substance	( )	C) Hydrogen chloride
24) Covalent substance	( )	D) Chlorine
25) Actinide	( )	E) Sodium chloride

Vitamins		**Deficiency disease**
26) Vitamin B_1	( )	A) Pellagra
27) Vitamin B_3	( )	B) Beri Beri
28) Vitamin D	( )	C) Night Blindness
29) Vitamin A	( )	D) Scurvy
30) Vitamin C	( )	E) Rickets

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