

PRIMARY EDUCATION SERVICES NETWORKING ORGANIZATION (PESNO)



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STANDARD VII FIRST MOCK EXAMINATION

SUBJECT: SCIENCE AND TECHNOLOGY [05]

DATE: 9TH MARCH 2021

TIME: 1HR: 30MIN

CANDIDATE'S NAME: _____

SCHOOL: _____

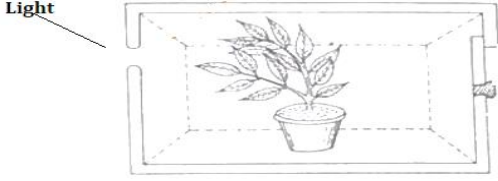
DISTRICT: _____ **REGION** _____

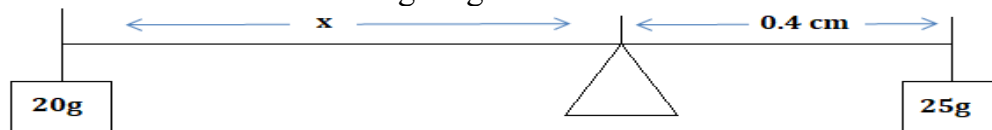
INSTRUCTIONS:

1. Fill in the prime personal information in the first part of your answer sheet
2. This paper consists of 45 questions with section A and B in four printed pages
3. Answer all questions as per instructions in each section
4. Observe neatness in your workings
5. Shade the correct answer on the OMR answer sheet given for no. 1 to no. 40
6. For no. 41 to 45 write the answers at the back of the (OMR) answer sheet given

SECTION A: MULTIPLE CHOICE QUESTIONS

1. Which of the following shows the main parts of the plant?
 - a. stem, leaves, flowers,
 - b. flowers, branches, leaves
 - c. roots, leaves, stems,
 - d. cotyledon, stems, leaves
 - e. plant, flowers, cotyledon
2. Most diseases in our environment can be avoided through:
 - a. making enough medicines
 - b. burning rubbish
 - c. sanitation
 - d. having first aid kit
 - e. constructing many hospitals
3. In order to prevent blood deficiency a pregnant woman is supposed to eat food rich in-
 - a. Fats
 - b. proteins
 - c. water
 - d. mineral salts
 - e. carbohydrates
4. What is the function of blood platelets in the body?
 - a. to transport oxygen
 - b. to transport waste products
 - c. to defend the body against diseases
 - d. to transport chemicals in the body
 - e. to help in blood clotting and healing of wounds in the body
5. waste products filtered by the kidney are transported to the urinary bladder through tubes called:
 - a. urethra
 - b. ureter
 - c. renal artery
 - d. renal vein
 - e. bronchiole
6. Which animal among the following does not lay eggs?
 - a. bat
 - b. frog
 - c. fish
 - d. crocodile
 - e. lizard
7. Which part of a flower continues to grow and become a fruit?
 - a. petal
 - b. stamen
 - c. ovary
 - d. stigma
 - e. stalk
8. Which gas is increased by plants during the day?
 - a. nitrogen
 - b. carbon dioxide
 - c. carbon monoxide
 - d. hydrogen
 - e. oxygen
9. Which of the following arrangement is the correct order in writing a scientific report?
 - a. aim, procedures, results, requirements, conclusion
 - b. Procedures, results, aim, requirements, conclusion
 - c. Title, aim, requirements, procedures, conclusion
 - d. Aim, conclusion, title, results, procedures, requirements
 - e. Results, aim, procedures, conclusion, title, requirements
10. Which of the following statements about biogas is true?
 - a. It is made from rocks
 - b. It can only be made from cow dung
 - c. It can only be made from human waste
 - d. It is normally made from coffee husks
 - e. It can only be made from any decomposing organic matter
11. Which groups among the following represent complex machines?
 - a. mortise door lock, bicycle, watch
 - b. sewing machine, bicycle and a pair of scissors
 - c. a pair of scissors, ruler, sewing machine
 - d. hacksaw, bicycle, car
 - e. watch, motorcycle, a pair of scissors
12. In order for the process of osmosis to take place there must be:-
 - a. potato, water and stone
 - b. potato, water and salt
 - c. potato, knife and stone
 - d. a potato with nothing else
 - e. potato, water and sand
13. Which of the following is NOT a source of electricity?
 - a. wind
 - b. thunderstorm
 - c. water fall
 - d. sun
 - e. fuel
14. Why do plants drop their leaves during the dry period?

- a. to reduce water loss b. to reduce absorption of water c. to add soil fertility
d. to control photosynthesis e. to show the presence of dry season
15. The sex of the baby can be female if x chromosome combines withchromosome
a. X b. V c. XY d. Y e. Z
16. Living things have the following characteristics except one which is.....
a. reproduction b. growth c. changing of position from one place to another
d. responding to stimuli e. to make its own food
17. Which process does this diagram represent?
a. Hydrotropism b. Phototropism
c. Photosynthesis
d. Chemotropism
e. Geotropism
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18. Which one of the following actions is a chemical change?
a. change of water to steam b. honey becoming alcohol c. grinding of maize into flour
d. melting of a candle e. dissolving of sugar
19. What will happen if you light a candle and cover it with a glass?
a. the glass will be break b. the candle will stop lighting c. the candle will be finished
d. the candle will continue lighting e. the candle will stick to the wall of the glass
20. What is the end product of the process of carbohydrate digestion?
a. amino acid b. glucose c. fatty acids d. maltose e. amylase
21. Which insects among the following undergo complete metamorphosis?
a. grasshopper and butterfly b. bees and cockroach c. snake and grasshopper
d. butterfly and housefly e. housefly and cockroach
22. The ratio of load force to effort force is called---
a. mechanical advantage b. velocity ratio c. speed d. efficiency e. load
23. Which colour insists a certain action or behavior in safety signs in our environment?
a. yellow b. green c. black d. blue e. white
24. Which device in a television or radio makes sound or picture clear?
a. battery b. screen c. antenna d. speaker e. wires
25. Heat travels in solid matters by_____
a. conduction b. convection c. radiation d. vibrations e. absorption
26. Which type of mirror produce an image which is upright the same size as the object and the same distance as the object from the mirror?
a. concave mirror b. biconcave mirror c. convex mirror d. prism mirror e. plane mirror
27. Sexual transmitted diseases are spread through_____
a. sexual contact b. sharing cups c. playing together d. blood transfusion e. touching each other
28. Which disease among the following has no vaccines?
a. polio b. trachoma c. tuberculosis d. whooping cough e. measles
29. What is the value of X in the following diagram?



- a. 10cm b. 4cm c. 0.4cm d. 0.5cm e. 6cm
30. Which organs are associated with excretion from the body?
a. skin, kidney b. lungs, heart c. liver, goiter d. spleen, heart e. stomach, kidney
31. Which food nutrients are found in the body building food?
a. fat b. minerals c. carbohydrates d. proteins e. vitamins

32. Observe the following illustration carefully then answer the following question



The creature shown in this illustration lives by depending on.....

- a. meat b. honey c. cereal grains d. rotten matters e. sea foods
33. One among the following is NOT a type of antenna?
a. wire b. micro strip c. spoke d. reflector e. aperture
34. What are the two main groups of living things?
a. plants and insects b. animals and fish c. plants and animals d. plants and human beings
e. human being and animals
35. Observe the following diagram. Which plant has the roots like the ones shown in the diagram



- a. bean plant b. tomato plant c. guava plant d. mango plant e. grasses
36. The following help to transport force from one part of the machine to another EXCEPT:-
a. belt b. fuel c. chain d. rope e. gears
37. Which measurement among the following is used to measure volume of objects?
a. kilogram b. centimeters c. newton d. litres e. ampere
38. Which one among the following is NOT a symptom of HIV/AIDS?
a. Fever and cough for a long time
b. Persistent dry cough
c. Transfusion of blood with HIV
d. Persistent diarrhea and sores in the mouth
e. Continuous loss of weight and tiredness
39. After providing first aid to an injured person, the person should be:
a. Send to hospital b. given complete bed rest c. laid down under a tree shade d. given mouth ventilation
e. given enough drinking water
40. When one or more computers are connected for the aim of communication makes
a. Modem b. television c. radio d. internet e. Google chrome

SECTION B: SHORT ANSWER QUESTION

41. Calculate the density of a substance which has a mass of 152 grams and volume of 20 cm³
42. Find the potential difference if a current of 0.6 ampere passes through a wire with the resistance of 20Ω



43. What does this safety signs in the environment mean _____
44. The virus which causes AIDS once they enter the body attack blood cells called _____
45. What will happen to these bars of magnets if they are brought close to each other?

