Appendices
Appendix A-1

Personal Information Sheet

Direction: In the following items, answer the questions briefly and (√) tick mark option of your choice.

1. Name of the student.................................................................

2. School......................................................................................

3. Class...........................................................................................

4. Male/Female...............................................................................  

5. Religion......................................................................................

6. How many members are there in your family?..........................

7. Have you received pre-primary education from any play school or not? (Yes/No)

8. Your primary education is from-
   a) Convent School
   b) Private School
   c) Government School

9. Who among the following helps you in studying at home?
   a) Parents
   b) Brother/Sister
   c) Tutor/Coaching Centers
   d) Self Study

10. Do you spent time working with computer? (Yes/No)

11. Do you have computer practical in your school? (Yes/No)

12. Do you spent time surfing on internet? (Yes/No)

13. Are your friends interested in computers? (Yes/No)

14. How many hours do you spent daily on studying at home?
   (a) Upto 2 hrs.           (b) More than 2 hrs.
15. Do you take part in school sponsored activities (sports, debates and cultural programmes)? (Yes/No)

16. Do you take part in educational tours organized by your school? (Yes/No)

17. How many hours after school do you spent daily in playing with your friends?
   (a) Upto 2 hrs. (b) More than 2 hrs

18. Which stream do you want to opt after high school?
   (a) Science (PCB/PCM) (b) Non-science (arts and commerce)
Appendix A-2

Multimedia Information Technology Attitude Scale (MITA)

**Direction:** This instrument is designed to measure attitudes toward computer and computer usage. It is not a test, so there is no right or wrong answers. Using the scale below indicate your opinion about each statement by putting a tick mark (✓) in one of the 5 columns against the given statements that best represent your beliefs. Your responses will remain confidential and will be used for research work only. Your cooperation is greatly appreciated.

Please note that:
SA-Strongly Agree; A-Agree; UD-Undecided; D-Disagree; SD-Strongly Disagree

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<th>STATEMENTS</th>
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<th>A</th>
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<td>3. I know a lot about computers.</td>
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<td>4. I would avoid a job involving MIT.</td>
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<td>5. MIT provides opportunity to improve teaching.</td>
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<td>6. MIT helps to organize the work in a better way.</td>
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<td>7. I get easily frustrated when I use computer.</td>
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<td>8. I use computer extensively.</td>
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<td>9. I think using a computer would be very difficult for me.</td>
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<td>10. Computer knowledge provides a lot of career opportunities.</td>
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<td>11. Learning computer is a waste of time.</td>
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<td>12. I would like to learn how to use computer.</td>
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<td>13. Career in MIT is interesting.</td>
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<td>14. I feel uneasy discussing about MIT with others.</td>
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<td>15. MIT offers opportunity for creative abilities.</td>
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<td>16. MIT serves as a tool for teaching and learning.</td>
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<td>17. MIT is not exciting to me.</td>
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<td>18. I get easily bored when working with computer.</td>
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<td>19. I feel confidence when working with computer.</td>
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Appendix A-3

Socio-Economic Status Scale (SES)

Direction: In the following items, answer the questions briefly and put a (✓) tick mark on option of your choice.

1. Father's- occupation.................................................................................................................................
   - educational status.................................................................................................................................
   - monthly income.................................................................................................................................
2. Mother’s – occupation..............................................................................................................................
   - educational status.................................................................................................................................
   - monthly income.................................................................................................................................
3. Your order of birth among brothers and sisters?.....................................................................................
4. Is your house rented? (Yes/No)
   a) If rented, what amount is paid as rent?............................................................................................
   b) How many rooms are there in your house?......................................................................................
5. Which of the following modern gadgets are owned by your parents?
   a) Car
   b) Air conditioner
   c) Personal computer/Laptops
   d) Cell phones
   e) None of the above
6. Do you get pocket money? (Yes/No)
7. Do your parents are associated with any club, charitable organization or association? (Yes/No)
8. Do you have newspaper and magazine subscription in your house? (Yes/No)
9. How much do you visit cyber cafes and avail internet facility?
   a) Regularly
   b) Frequently
   c) Not at all

10. How do you go to school?
   a) By foot
   b) Rickshaw
   c) Bike/Scooter
   d) Car
   e) Cycle
Appendix A-4

Science Achievement Test (SAT)

**Direction:** In the following items, (✓) tick mark the correct option.

1. The darkening property of photochromic glass is due to the presence of:  
   (a) Silver sulphide  (b) Silver iodide  (c) Silver bromide  (d) All

2. At the height of about 1000m above the sea level, the atmospheric pressure is:  
   (a) 76 cm  (b) 75 cm  (c) 73 cm  (d) 72 cm

3. Which is used as electrolyte in dry cell?  
   (a) Sodium chloride  (b) Ammonium chloride  (c) Ammonium hydroxide  (d) none

4. The angle between the incident ray and the emergent ray is called angle of:  
   (a) Reflection  (b) Refraction  (c) Incidence  (d) Deviation

5. The image of an object formed by a convex lens when the object is placed beyond the focal length:  
   (a) Real  (b) Imaginary  (c) Magnified  (d) Virtual

6. When the white light passes through a prism which colour of ray bends the least?  
   (a) Red  (b) Violet  (c) Yellow  (d) Blue

7. As diamond is a bad conductor of electrical conductivity, its thermal conductivity is:  
   (a) Very low  (b) Medium  (c) Very high  (d) Constantly low

8. Light changes its direction while traveling through mediums of different density. This process is called:  
   (a) Reflection  (b) Deflection  (c) Inclination  (d) Refraction

9. The Buoyant Force on an object immersed in water is greater at a depth of:  
   (a) 10m  (b) 20m  (c) 30m  (d) 40m
10. Materials which do not allow an electric current to flow through them are called:
   (a) Conductors   (b) Electrodes   (c) Insulator   (d) Storage batteries

11. Which of the following can be measured from Barometer?
   (a) Temperature   (b) Pressure   (c) Speed   (d) Density

12. Which of the following are the renewable sources of energy?
   (a) Coal   (b) Kerosene   (c) Sun   (d) Petrol

13. Wind energy is used for running:
   (a) Solar cooker   (b) Windmill   (c) Heater   (d) None

14. Zinc sulphate and copper sulphate solution is used in:
   (a) Voltaic cell   (b) Dry cell   (c) Button cell   (d) Daniel cell

15. The phenomena of electromagnetic induction are used in:
   (a) Electric bell   (b) Electrode   (c) Electrolyte   (d) Electric generator

16. A group of stars is known as:
   (a) Planet   (b) Asteroid   (c) Shooting star   (d) Constellation

17. Negatively charged particles of atom are called:
   (a) Neutrons   (b) Protons   (c) Electrons   (d) None

18. Sand stone is a:
   (a) Igneous rock   (b) Metamorphic rock   (c) Sedimentary rock   (d) All

19. Solder is an alloy of:
   (a) Copper and tin   (b) Copper and zinc   (c) Lead and tin   (d) Iron and carbon

20. Which of the following metal reacts very mildly with steam?
   (a) Zn   (b) Na   (c) K   (d) Ca

21. Which of the following is clear transparent plastic?
   (a) PVC   (b) Acrylic   (c) Polyester   (d) All

22. Iron is mainly extracted from:
   (a) Fe₂O₃   (b) Fe₂O₄   (c) Fe(OH)₃   (d) All
23. All metals are solid except:
   (a) Al  (b) Hg  (c) Ca  (d) Na

24. Melamine is a:
   (a) Thermoplastic  (b) Ceramic  (c) Thermostats  (d) Porcelain

25. Which type of reaction is shown by copper with acids?
   (a) Violet reaction  (b) No reaction  (c) Steady reaction  (d) none

26. The common mineral found in earth crust is:
   (a) CO₂  (b) SiO₂  (c) MgCO₃  (d) NaCl

27. Which of the following substances has the lowest boiling point range?
   (a) Gases  (b) Petrol  (c) Naphtha  (d) Gas oil

28. The property of beating a metal into sheets is called:
   (a) Malleability  (b) Ductility  (c) Conductivity  (d) Metallic Luster

29. Which of the following are common methods of protecting iron from rusting?
   (a) Painting  (b) Greasing  (c) Galvanization  (d) All

30. Which of the following is also known as marsh gas?
   (a) Oxygen  (b) Nitrogen  (c) Methane  (d) Hydrogen

31. Diamond is an allotrope of:
   (a) Carbon  (b) Graphite  (c) Charcoal  (d) None

32. Distilled water is:
   (a) Pure water  (b) Hard water  (c) Soft water  (d) Impure water

33. The element having same atomic number and atomic mass number is:
   (a) Hydrogen  (b) Iron  (c) Lead  (d) Gold

34. Which of the following is communicable disease?
   (a) Cancer  (b) Arthritis  (c) Pellagra  (d) Common Cold

35. Rust of wheat is a disease caused by:
   (a) Bacteria  (b) Virus  (c) Worms  (d) Fungus
36. DPT vaccine is used for:
   (a) Diptheria  (b) Whooping cough  (c) Tetanus  (d) All of these
37. Acid rain is due to:
   (a) Air pollution  (b) Hole in ozone layer  (c) Water pollution  
   (d) Melting of ice on mountains
38. The most abundant constituent of air is:
   (a) Oxygen  (b) Nitrogen  (c) Carbon dioxide  (d) Water vapor
39. Anthrax is a disease caused by:
   (a) Bacteria  (b) Vine  (c) Protozoa  (d) Wedicides
40. One of the groups of organism is not of microorganism. It is:
   (a) Bacteria  (b) Algae  (c) Protozoa  (d) Angiosperm
41. Pencillin is a:
   (a) Antibiotic  (b) Vaccine  (c) Fungal Disease  (d) None
42. The spherical bacteria are called:
   (a) Coccus  (b) Bacillus  (c) Spirillum  (d) Hexagonal
43. The heart of frog contains:
   (a) 2 chambers  (b) 3 chambers  (c) 4 chambers  (d) none
44. Which of the following is/are fresh water fish?
   (a) Catla catla  (b) Sahiwal  (c) Siri  (d) All
45. Respiration is an example of:
   (a) Rapid combustion  (b) Slow combustion  (c) Spontaneous combustion  
   (d) none
46. Which of the following instrument is used for measuring quality of milk?
   (a) Hygrometer  (b) Lactometer  (c) Barometer  
   (d) Hydrometer
47. Which of the following is related with food production?
   (a) Green revolution  (b) White revolution  (c) Yellow revolution  
   (d) Black revolution
48. Name the process also known as tilling?
   (a) Sowing   (b) Ploughing   (c) Manuring   (d) Weeding

49. The scientific technology of designing new cells to increase animal and plant yield is called:
   (a) Immunization   (b) Isolation   (c) Vaccination   (d) Genetic engineering

50. Which of the following is not present in both plant and animal cells?
   (a) Mitochondria   (b) Plasma membrane   (c) Nucleus   (d) Cell wall

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**Answersheet**

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