

# Question bank

## Chapter-1 Topic 1: Family traits

- Q-1 **What is the term for a unit of inheritance?**
- Q-2 **Answer the following:**
- a) Name two medical problems that can run in families.
  - b) What screening can be done for breast cancer and for colon cancer to try to detect them early?
- Q-3 **Answer the following:**
- a) Some traits can be seen in the outward appearance of a person. What is the term for this trait (gene)?
  - b) What is the term for the gene which is not visible?
- Q-4 **Answer the following:**
- a) Who is referred to as the 'father of genetics'?
  - b) Explain what a family genealogy is.

## Chapter-2 Topic 2: Environmental hazards I

- Q-1 **What is the difference between a natural hazard and a human-made hazard?**
- Q-2 **Answer the following:**
- a) Outline the similarities and differences between soil erosion by running water and soil erosion by wind.
  - b) List five human activities that promote soil erosion.
  - c) List five actions or strategies for preventing and combating soil erosion.
- Q-3 **Answer the following about flooding:**
- a) What is flooding?
  - b) List four effects or impacts of flooding.
  - c) Explain how flooding can be prevented, with particular reference to Nigeria.

## Chapter-3 Topic 3: Environmental hazards II

**Q-1 Answer the following:**

- a) Give three reasons why people practise bush burning.
- b) Why is it commonly done in rural agriculture?
- c) Give four advantages of clearing bush by hand.
- d) Describe three disadvantages of clearing bush using machinery.
- e) Write a paragraph to explain why clearing land by bush burning is harmful to the environment.

**Q-2 Give the meaning of the following words:**

- a) compaction
- b) biodiversity
- c) deforestation

**Q-3 Answer the following about deforestation:**

- a) Give three reasons why deforestation occurs.
- b) Describe four effects of deforestation.
- c) Why does deforestation result in flooding?
- d) How does deforestation affect the availability of medicinal plants?
- e) How does it impact on climate change?

## Chapter-4 Topic 4: Environmental hazards III

**Q-1 Give the meaning of the following words:**

- a) desertification
- b) arable
- c) afforestation
- d) mulching

**Q-2 Answer the following:**

- a) Give five reasons why desertification occurs.
- b) What happens to biodiversity when desertification occurs? Explain your answer.
- c) How does desertification lead to increased soil erosion?

**Q-3 Answer the following:**

- a) What is the relationship between desertification and migration?
- b) What is the relationship between desertification and erosion?

- c) What is the relationship between desertification and food production?
- d) Write down five ways that desertification can be controlled.
- e) Explain the difference between afforestation and reforestation.
- f) How can soil erosion be reduced?
- g) In which part of Nigeria is there the most desertification?

**Q-4 Answer the following:**

- a) Explain what the ozone layer is.
- b) Give three reasons how the ozone layer prevents some health issues.
- c) What is ozone depletion?
- d) What is the name given to the chemicals that cause ozone depletion?
- e) How can ozone depletion be reduced?

### **Chapter-5 Topic 5: Drug and substance abuse**

- Q-1 What is the name of the agency in Nigeria that is responsible for dealing with problems of fake drugs?**
- Q-2 What does the acronym NDLEA stand for?**
- Q-3 Cocaine is a drug that can be snuffed (snorted). What long-term effect can this habit have on the nostrils?**
- Q-4 What problems can be caused when drug users share needles?**
- Q-5 Give an example of the type of drugs that are legal.**

### **Chapter-6 Topic 6: Family life education**

- Q-1 Discuss one complication that can occur during the pregnancy of a teenage mother.**
- Q-2 Discuss one complication that can occur during childbirth if the mother is a teenager.**
- Q-3 Explain the difference between a medical and surgical abortion.**

**Q-4 Discuss two life-threatening complications that can occur if an unsafe abortion is carried out.**

### **Chapter-7 Topic 7: Resources from living things**

**Q-1 Answer the following:**

- a) Give the definition of the term 'resource'.
- b) Imagine a world with no plants. Describe all the things that would not be available to people.
- c) Give two examples of fossil fuels.

**Q-2 Make a list of all the resources that come from animals.**

**Q-3 How do plant and animal resources impact on the Nigerian economy?**

### **Chapter-8 Topic 8: Resources from non-living things**

**Q-1 Answer the following:**

- a) What is a non-living resource?
- b) Define the term 'solid mineral'.

**Q-2 Explain the economic importance of tin and iron ore to the economy of Nigeria.**

**Q-3 What is the primary use of coal in Nigeria?**

### **Chapter-9 Topic 9: Light energy**

**Q-1 Match the terms to their correct definitions. Write down the letter and its matching number.**

- a)
- b)
- c)
- d)
- e)
- f)
- g)

**Q-2 Identify the lenses in the diagram below.**

- a) Which lens is concave?
- b) Which lens is convex?
- c) Which lens makes the light rays converge?
- d) Which lens makes the light rays diverge?
- e) Which lens produces an upside-down image?
- f) Which lens produces a right-way-up virtual image?

**Q-3 Match the parts of the eye to their functions. Write down the letter and its matching number.**

- a)
- b)
- c)
- d)
- e)
- f)

## **Chapter-10 Topic 10: Sound energy**

**Q-1 John experimented with sound made by a vibrating ruler.**

- a) The bigger the vibration, \_\_\_\_\_ the sound.
- b) The faster the vibration, \_\_\_\_\_ the sound.
- c) A soft sound differs from a loud sound according to \_\_\_\_\_ of the vibrations.
- d) The quality of a sound (its pitch) depends on the \_\_\_\_\_ the number of vibrations per second.
- e) He drew sound waves for a soft sound and sound waves for a loud sound. Which is which?
- f) He drew sound waves for a low-pitched sound and sound waves for a high-pitched sound. Which is which?
- g) What happens to the pitch of a guitar string if you shorten the length of the string?
- h) What happens to the pitch of a guitar string if you slacken the string?  
4a if you shorten the length of the string?  
4b if you slacken the string?

**Q-2 Put these steps, which explain how you hear, in the correct order.**

- a) The eardrum vibrates.

- b) Nerve impulses are sent from the auditory nerve to the brain, which interprets the sound.
- c) Sound waves pass down the ear canal and strike a thin sheet of muscle and skin called the eardrum.
- d) As the eardrum vibrates, the three ossicles are set in motion and transfer the vibrations to the cochlea in the inner ear.
- e) The pinna (ear flap) funnels sound waves into the ear.
- f) Vibrations travel through the fluid-filled cochlea, which is lined with sensitive hairs.
- g) The movement of the sensitive hairs in the cochlea sends signals to the auditory nerve.

## **Chapter-11 Topic 11: Magnetism**

**Q-1 Answer these statements as True or False.**

- a) Magnetite is rock that contains iron.
- b) The name loadstone means heavy stone.
- c) A compass is a device that contains a magnet.
- d) A bar magnet has one pole.
- e) The like poles of two magnets attract.
- f) Iron-containing metals such as steel can be magnetised.
- g) Nickel has magnetic properties.
- h) Aluminium has magnetic properties.

**Q-2 Copy this drawing of a bar magnet and fill in the field lines around it.**

**Q-3 Complete these statements:**

- a) The field lines run from \_\_\_\_ to \_\_\_\_.
- b) Where the field lines are closest together the magnetic field is \_\_\_\_.

**Q-4 Copy and fill in the magnetic field lines between this pair of magnets.**

**Q-5 Copy and fill in the magnetic field lines between this pair of magnets. Mark with an X a neutral point where the two magnets have equal and opposite effects, cancelling out the magnetic field.**

## **Chapter-12 Topic 12: Electrical energy**

**Q-1 Give the term for each of the following:**

- a) negatively charged particles
- b) positively charged particles
- c) flow of electric charge
- d) a pathway for electric current
- e) a material's opposition to the flow of electric current
- f) one or more electrochemical cells supplying electrical power
- g) potential difference or electric pressure
- h) an instrument that measures current
- i) an instrument that measures voltage

**Q-2 Copy this simple circuit below and use arrows to show;**

- a) the direction of electron flow
- b) the direction of conventional current (the flow of positive charge)

**Q-3 complete these statements:**

- a) In a closed circuit, electrons flow from the \_\_\_ terminal to the \_\_\_ terminal of the battery through the conducting wire.
- b) The direction of conventional current is in the \_\_\_ direction.

**Q-4 Identify the circuit symbols below.**

- a) symbol 1 – \_\_\_
- b) symbol 2 – \_\_\_
- c) symbol 3 – \_\_\_
- d) symbol 4 – \_\_\_
- e) symbol 5 – \_\_\_
- f) symbol 6 – \_\_\_

**Q-5 Fill in these missing words in the right place below: If we liken the flow of water in pipes to an electric circuit, then:**

- a) water = \_\_\_\_\_
- b) cell = \_\_\_\_\_
- c) tap = \_\_\_\_\_

**Q-6 State the function of fuses and circuit breakers; explain the difference between the two.**

- a) State the function of fuses and circuit breakers.
- b) Explain the difference between the two.

## Chapter-13 Topic 13: Radioactivity

**Q-1 Match the terms to their correct definitions. Write down the letter and its matching number.**

- a) element – \_\_\_\_
- b) radioactivity – \_\_\_\_
- c) isotope – \_\_\_\_
- d) proton – \_\_\_\_
- e) neutron – \_\_\_\_
- f) radioactive element – \_\_\_\_
- g) electron – \_\_\_\_
- h) atom – \_\_\_\_

**Q-2 Name three radioactive elements.**

- a) \_\_\_\_
- b) \_\_\_\_
- c) \_\_\_\_

**Q-3 Identify the three types of radiation shown in diagrams A–C; which of these:**

- a) Diagram A – \_\_\_\_
- b) Diagram B – \_\_\_\_
- c) Diagram C – \_\_\_\_

**Q-4 The table lists some of the uses of radioactivity. Match the following to processes or techniques.**

**Q-5 List three harmful effects of exposure to radiation.**

## Chapter-14 Topic 14: Skills acquisition

**Q-1 List four types of skills.**

- a) List four types of skills.
- b) How can taking risks be useful?
- c) Name two types of decisions.
- d) Why are social skills so important?

**Q-2 Read the case study and answer the questions that follow.**

- a) List some of the skills that Awero learnt while working at the workshop.
- b) How did delaying his entrance into college help him?

## **Chapter-15 Topic 15: Ethical issues in science and development**

**Q-1 What is the term for a unit of inheritance?**

**Q-2 Answer the following:**

- a) Name two medical problems that can run in families.
- b) What screening can be done for breast cancer and for colon cancer to try to detect them early?

**Q-3 Answer the following:**

- a) Some traits can be seen in the outward appearance of a person. What is the term for this trait (gene)?
- b) What is the term for the gene that is not visible?

**Q-4 Answer the following:**

- a) Why is science important to society?
- b) Explain the meaning of the term 'ethic'.
- c) What are scientific ethics?
- d) Give an example of when scientific ethics are particularly important.

**Q-5 Write a paragraph to explain:**

- a) Positive impacts of scientific research.
- b) Negative impacts of scientific research.

## **Chapter-16 Topic 16: Processing of timber**

**Q-1 From which natural resource does timber come?**

**Q-2 Explain the difference between timber processing, conversion and seasoning.**

**Q-3 List four properties of good quality timber.**

**Q-4 Answer the following:**

- a) What is timber treatment?
- b) Name three chemical products used for timber treatment.

**Q-5 Explain why it is necessary to treat timber properly before it is used.**

## **Chapter-17 Topic 17: Processing of metals**

**Q-1 Explain the process of metal smelting, with reference to iron ore.**

**Q-2 What is metal casting?**

**Q-3 Answer the following:**

- a) What is the purpose of metal tempering?
- b) Explain how metal tempering is done.

**Q-4 Answer the following:**

- a) Explain what a metal alloy is.
- b) Give three examples of metal alloys.

**Q-5 What activities typically take place in a metal processing workshop?**

## **Chapter-18 Topic 18: Processing of clay, ceramics and glass**

**Q-1 Explain or define each of the following terms associated with clay processing:**

- a) leatherhard clay
- b) sorting and slipping
- c) glazeware

**Q-2 Explain what is meant by drying, glazing and firing with respect to ceramic tiles.**

**Q-3 Describe the three stages in glass production.**

**Q-4 Name three uses for each of the following:**

- a) clay
- b) ceramics
- c) glass

## **Chapter-20 Topic 20: Career prospects and opportunities in technology**

**Q-1 Answer the following:**

- a) Define the term career.
- b) Explain what prospects are.

**Q-2 Answer the following:**

- a) List four branches of technology that offer career prospects.
- b) Name primary, secondary and tertiary career prospects in ONE of the four branches of technology.

**Q-3 What do you understand by the word technology?**

## **Chapter-21 Topic 21: Isometric drawing**

**Q-1 Define isometric drawing.**

## **Chapter-22 Topic 22: Oblique drawing**

**Q-1 Define oblique drawing.**

## **Chapter-23 Topic 23: Orthographic projection**

**Q-1 Define orthographic projection.**

## **Chapter-24 Topic 24: One-point perspective drawing**

**Q-1 Define perspective drawing.**

## **Chapter-25 Topic 25: Scales and scale drawing**

**Q-1 Answer the following:**

- a) What scale did Grace use for her drawing?
- b) If the dimensions of Grace's drawing were 15 cm and 25 cm, what scale did she use?

- c) If Grace used a scale of 1 : 50, what would be the width and height of the house in her drawing?
- d) If Grace used a scale of 1 cm = 0.25 m, what would be the width and height of the house in her drawing?

**Q-2 Compare the two scale drawings below. Select the correct underlined word to make all the statements true.**

- a) For A, the scale drawing is bigger / smaller
- b) For B, the scale drawing is bigger / smaller
- c) For A, the scale factor is 1:2 / 1:4
- d) A is an enlarged / reduced scale drawing.
- e) B is an enlarged / reduced scale drawing.

## **Chapter-26 Topic 26: Drawing of plans and blueprints**

**Q-1 Look at the floor plan below and answer the questions that follow.**

- a) This is a first-floor plan for a \_\_\_\_\_ double-storey house. Give two reasons why.
- b) Is the garage a single or a double garage? Give a reason for your choice.
- c) A door connects the garage to which part of the house?
- d) How many exterior doors are there? (Doors that lead outside).
- e) If you are standing outside, do you open the exterior doors by pushing them away from you or pulling them towards you?
- f) How many interior doors are there?
- g) Give a reason why the door to the half bathroom swings away from the bathroom, and not in.
- h) How many windows are there?
- i) What is the built-in appliance next to the breakfast nook?
- j) Does the kitchen have a single or double sink?
- k) Where is the kitchen sink placed?

## **Chapter-27 Topic 27: Building construction**

**Q-1 Explain how different types of roof may be classified.**

**Q-2 Explain why most buildings have windows.**

**Q-3 Name, and give the differences, between any two kinds of door.**

**Q-4 Look at the following diagram of a house, and identify the parts labelled 1 to 10.**

- a) 1
- b) 2
- c) 3
- d) 4
- e) 5
- f) 6
- g) 7
- h) 8
- i) 9
- j) 10

### **Chapter-28 Topic 28: Woodwork projects**

**Q-1 Outline the steps to be followed for any woodwork project.**

**Q-2 Identify each of the following woodwork joints:**

- a) 2.1
- b) 2.2
- c) 2.3
- d) 2.4
- e) 2.5

**Q-3 Answer the following:**

- a) List eight woodwork workshop safety rules.
- b) Explain what it means to exhibit woodwork projects.

### **Chapter-29 Topic 29: Metalwork projects**

**Q-1 List the five steps to be followed in a metalwork project.**

**Q-2 Answer the following:**

- a) Name three simple items that could be made as part of a metalwork project.
- b) Why is it often advisable to paint metalwork objects?

- Q-3 **Working with metal can mean danger. Name three possible dangers to be aware of when working with metal.**
- Q-4 **Explain the term 'simple machine', and give three examples of simple machines.**

### **Chapter-30 Topic 30: Soldering and brazing**

- Q-1 **Explain the difference between soldering and brazing.**
- Q-2 **List four uses of soldering.**
- Q-3 **List four industries where brazing or welding might be used.**
- Q-4 **Identify the following piece of equipment and briefly explain how it is used.**

### **Chapter-31 Topic 31: Machine motions: Linear**

- Q-1 **Explain the concept of linear motion.**
- Q-2 **Explain how you would induce linear motion in the examples below:**  
a)  
b)
- Q-3 **Answer the following:**  
a) Explain the terms 'slides' and 'slots' in mechanical systems.  
b) Give two examples of slides and slots.

### **Chapter-32 Topic 32: Machine motions: Rotary**

- Q-1 **What is meant by rotary motion?**
- Q-2 **Does a wheel provide linear, or rotary motion?**
- Q-3 **Explain how one of the following converts rotary to linear motion: rack and pinion; piston and crankshaft; crank and slider.**

**Q-4 Answer the following:**

- a) In which type of vehicle are you likely to find a rack and pinion, and a piston and crankshaft?
- b) Where in the vehicle will each of the above be found?

### **Chapter-33 Topic 33: Simple electrical wiring**

**Q-1 What is the main purpose of electrical wiring?**

**Q-2 What are the standard colours used for the following electrical wires:**

- a) live
- b) neutral
- c) earth

**Q-3 Explain the difference between:**

- a) a series, and a parallel circuit
- b) alternating current and direct current
- c) wire cutters and wire strippers

**Q-4 Why is it necessary to isolate a circuit from its power supply before working on it, and how is the circuit isolated?**

### **Chapter-34 Topic 34: Basic electronics**

**Q-1 Define the term 'electronics'.**

**Q-2 Explain the difference between active and passive electronic components.**

**Q-3 Name four electronic devices that we might use on a day-to-day basis.**

**Q-4 Basic emissions theory deals with the movement of which sub-atomic particles?**

**Q-5 Explain what will happen if one end of an electronic component is positively charged, and the other end negatively charged.**

### **Chapter-35 Topic 35: Physical fitness and body conditioning programmes**

- Q-1 **What aspects of a person's mental health are improved by physical activity?**
- Q-2 **What are the four main components of physical fitness?**
- Q-3 **Answer the following:**
- a) Name any three cardiovascular diseases.
  - b) What is the difference between Type 1 and Type 2 diabetes?
- Q-4 **Answer the following:**
- a) Name any five factors that have a positive effect on physical activity.
  - b) Write a paragraph to describe how you feel about exercise. Include: How often you exercise; What physical activity you do; Whether you enjoy it or not; Why you think physical activity is important.

### **Chapter-36 Topic 36: Recreation, leisure and dance activities**

- Q-1 **Match these traditional dances to their descriptions. Write down the question number and its matching letter.**
- Q-2 **Give the country of origin for these social dances.**
- a) ramba – \_\_\_\_
  - b) rilode – \_\_\_\_
  - c) reggae – \_\_\_\_
  - d) disco – \_\_\_\_
- Q-3 **Answer the following:**
- a) List three advantages of computer games.
  - b) List three disadvantages of computer games.

### **Chapter-37 Topic 37: Track and field: Pole vault and javelin**

- Q-1 **Answer the following:**
- a) In athletics, are pole vault and javelin throwing track or field events?
- Q-2 **Answer the following:**
- a) What is the objective in pole vaulting?
  - b) What equipment is needed for the pole vault?
  - c) What is the objective in throwing the javelin?

d) What exactly is a javelin?

**Q-3 Answer the following:**

- a) Name the stages of a javelin throw leading up to the release of the javelin.
- b) Explain why a javelin throw can be potentially dangerous, and should always be supervised.

## **Chapter-38 Topic 38: Ball games: Hockey**

**Q-1 Answer the following:**

- a) How many players take part in a game of hockey?
- b) Is hockey a throwing or a striking game? Explain your answer.

**Q-2 Answer the following:**

- a) What is the objective in a game of hockey?
- b) What equipment is needed to achieve the objective of the game?

**Q-3 Answer the following:**

- a) List the rules and regulations of the sport of hockey.
- b) How many umpires officiate in a game of hockey?

## **Chapter-39 Topic 39: Group or combined events**

**Q-1 Answer the following:**

- a) Briefly explain the difference between a pentathlon and a decathlon.
- b) List the five sports that make up the modern pentathlon.

**Q-2 Answer the following:**

- a) What is physical education?
- b) List three careers you could follow in physical education.

## **Chapter-40 Topic 40: Nigerian sports heroes**

**Q-1 Answer the following:**

- a) In your own words, define the term 'sports hero'.
- b) Identify the sport associated with each of the following Nigerian sports heroes: Jerry Ibenazau; Falilat Ogunkoya; Dick Tiger; Mary Onyali; Nwanko Kanu

**Q-2 Answer the following:**

- a) What is the philosophy, or main goal, of the National Sports Policy of Nigeria?
- b) Explain the difference between an amateur and a professional sportsperson.

## **Chapter-41 Topic 41: Contact games**

**Q-1 Answer the following:**

- a) What is Taekwondo and where and when did it originate?
- b) List five important aspects or principles of Taekwondo.
- c) How is victory achieved in a Taekwondo contest?

**Q-2 Answer the following:**

- a) How many boxers take part in a boxing match?
- b) List four benefits (physical and mental) of boxing as a sport.
- c) Explain the difference between amateur and professional boxing.

## **Chapter-42 Topic 42: Non-contact games**

**Q-1 Answer the following:**

- a) Name three pieces of equipment worn by a competitive swimmer.
- b) Identify and name the swimming strokes a)–d).
- c) What is a full-size swimming pool called, and how many swimming lanes does it have?
- d) What is the role of the official judges and timekeepers in a swimming event?

**Q-2 Answer the following:**

- a) Give a definition of gymnastics.
- b) List four different floor events in gymnastics.
- c) Briefly explain any five safety rules in gymnastics.

## **Chapter-43 Topic 43: Personal, school and community health I**

**Q-1 Answer the following:**

- a) Name three different types of families.
- b) How have the duties of family members changed over time?

**Q-2 Answer the following:**

- a) What is puberty?
- b) Distinguish between primary and secondary sexual characteristics.
- c) Draw a table like the one below and fill in information about changes that occur in boys and girls during puberty.

**Q-3 Answer the following:**

- a) What are the health risks of teenage pregnancy?
- b) Describe any other ways in which teenage pregnancy affects the life of a person.

**Q-4 Answer the following:**

- a) Explain the meaning of the term 'assertive'.
- b) Explain how being assertive can help you in a difficult situation.

**Q-5 Answer the following:**

- a) List any three careers in physical education.
- b) List two careers in health.

## **Chapter-44 Topic 44: Personal, school and community health II**

**Q-1 Answer the following:**

- a) List five non-governmental organisations and describe what they do.
- b) Explain the responsibilities of the Ministry of Health; World Health Organization; NAFDAC.

**Q-2 Describe how an older person can slow down changes in:**

- a) their hearing
- b) their weight
- c) loss of strength
- d) memory loss
- e) vision

**Q-3 Answer the following:**

- a) What is the difference between a prescription and non-prescription drug?
- b) What is a gateway drug?

**Q-4 Answer the following:**

- a) Explain the difference between drug misuse and drug abuse.
- b) Give five reasons for drug abuse.

- c) Suggest two ways in which drug abuse can be prevented.

## **Chapter-45 Topic 45: Pathogens, diseases and their prevention**

**Q-1 Answer the following:**

- a) Distinguish between a communicable and a noncommunicable disease, and give an example of each.
- b) Name the type of pathogen that causes: malaria; bilharzia; ringworm; mumps; tuberculosis; chicken pox.

**Q-2 Answer the following:**

- a) Give four ways in which communicable diseases can be spread.
- b) Write a paragraph to explain ways in which communicable diseases can be managed.
- c) Give five examples of noncommunicable diseases.

**Q-3 Answer the following:**

- a) How does a person get sickle cell anaemia?
- b) What are the symptoms of sickle cell anaemia?
- c) Suggest why more and more people are becoming obese.
- d) How does obesity impact on a person's health?
- e) What are the symptoms of kwashiorkor?
- f) What is diabetes?
- g) What are the two types of diabetes and how do they differ?

**Q-4 Answer the following:**

- a) What is an allergen?
- b) Give some examples of things to which people may be allergic.
- c) Briefly explain the impact of different diseases on Nigeria.

## **Chapter-46 Topic 46: Family health**

**Q-1 Give two examples of:**

- a) an inherited disease
- b) a degenerative disease
- c) an eating disorder
- d) a mental illness

e) a social disease

**Q-2 Answer the following:**

- a) How are communicable diseases spread?
- b) Explain the meaning of the term 'vector'.
- c) Which organism is a vector for malaria; river blindness; yellow fever; dysentery?
- d) Draw a diagram to show the life cycle of a mosquito.
- e) What are the hosts for the malarial parasite?
- f) Which diseases can be carried by houseflies?
- g) List four methods that can be used to control houseflies and mosquitoes.

**Q-3 Answer the following:**

- a) Give three examples of a sexually transmitted infection.
- b) For each example given in question 3.1, list the symptoms and treatment.
- c) How can STIs be prevented?

## **Chapter-47 Topic 47: Computer career opportunities**

**Q-1 Explain the term 'computer professional'.**

**Q-2 Explain the term 'career'.**

**Q-3 Describe the type of work performed by any two of the following computer professionals:**

- a) manager
- b) systems analyst
- c) programmer
- d) data capturer
- e) computer engineer or technician

**Q-4 Describe and explain the functions of any one of the following Nigerian computer professional bodies:**

- a) Nigeria Computer Society (NCS) – Institute of Data Processing Management of Nigeria
- b) Computer Professionals Registration Council of Nigeria (CPN)

## **Chapter-48 Topic 48: Digital literacy**

- Q-1 **What is meant by digital literacy?**
- Q-2 **List six skills of the digitally literate person.**
- Q-3 **Name three areas of life where digital literacy is used or applied.**
- Q-4 **List and explain four characteristics of the digitally literate person.**
- Q-5 **List five essential elements of digital literacy.**

## **Chapter-49 Topic 49: Computer viruses**

- Q-1 **Name three internet search engines.**
- Q-2 **The following terms and explanations are related to internet search engines. Match the terms with the explanations.**
- Q-3 **State three reasons why search engines are useful.**
- Q-4 **Answer the following:**  
a) Explain what is meant by the term 'computer virus'.  
b) Explain why computer viruses are dangerous or potentially dangerous to computers and information technology systems.
- Q-5 **Answer the following:**  
a) Name and describe any one computer virus you have heard or read about.  
b) What are a few potential sources of computer viruses?  
c) What are some of the warning signs your computer might display if it is infected by a computer virus?  
d) How are computer viruses typically detected?

## **Chapter-50 Topic 50: Internet**

- Q-1 **What is the difference between a logic gate, and a logic circuit?**
- Q-2 **Answer the following:**  
a) What is meant by inputs and outputs in a logic gate?  
b) In a computer, what physically controls inputs and outputs?

- Q-3 **Explain the concept of the truth table.**
- Q-4 **Logic gates are binary. What does this statement mean?**
- Q-5 **Explain the terms 'inverse' and 'inverter'.**
- Q-6 **Fill in the blanks in the following statements.**
- a) A \_\_\_\_ is an organised collection of information that can be stored on a computer.
  - b) A \_\_\_\_ is a software program that is used to create and manage databases.
  - c) A \_\_\_\_ is a single piece of information in a database.
  - d) A \_\_\_\_ is a complete set of information in a database.
  - e) A \_\_\_\_ is a collection of records in a database.
  - f) A \_\_\_\_ is used to sort data in a database.
- Q-7 **Identify the following types of databases.**
- a) 2.1 [City–Customer entity diagram] – \_\_\_\_
  - b) 2.2 [Patient table] – \_\_\_\_
  - c) 2.3 [School ER diagram] – \_\_\_\_
- Q-8 **Explain three advantages of using databases.**
- Q-9 **Name three internet search engines.**
- Q-10 **The following terms and explanations are related to internet search engines. Match the terms with the explanations.**
- Q-11 **State three reasons why search engines are useful.**

## **Chapter-51 Topic 51: The digital divide**

- Q-1 **Answer the following:**
- a) What are the steps to be taken to do calculations using a spreadsheet?
  - b) How do you print worksheets?
  - c) How can you rename a worksheet?
- Q-2 **Answer the following:**
- a) Explain two benefits of using spreadsheet packages.
  - b) Name two examples of spreadsheet packages.
  - c) Name five ways in which spreadsheets are used in today's world.

**Q-3 Match the following features of spreadsheets with its correct description.**

**Q-4 Fill in the blanks in the following statements.**

- a) A \_\_\_\_\_ is an organised collection of information that can be stored on a computer.
- b) A \_\_\_\_\_ is a software program that is used to create and manage databases.
- c) A \_\_\_\_\_ is a single piece of information in a database.
- d) A \_\_\_\_\_ is a complete set of information in a database.
- e) A \_\_\_\_\_ is a collection of records in a database.
- f) A \_\_\_\_\_ is used to sort data in a database.

**Q-5 Identify the following types of databases.**

- a) 2.1 [City–Customer entity diagram] – \_\_\_\_\_
- b) 2.2 [Patient table] – \_\_\_\_\_
- c) 2.3 [School ER diagram] – \_\_\_\_\_

**Q-6 Explain three advantages of using databases.**

**Q-7 Answer the following:**

- a) Explain what is meant by the term 'digital divide'.
- b) Name three groups of people between which the digital divide may exist.

**Q-8 Answer the following:**

- a) Explain the difference between the old economy and the new economy, and provide a business example of each type of economy.
- b) Name four features of the new economy.
- c) Name three benefits of the new economy.

## **Chapter-52 Topic 52: Database packages**

**Q-1 Explain the term 'computer game' in your own words.**

**Q-2 List and briefly explain three advantages of playing computer games.**

**Q-3 List and briefly explain three disadvantages of playing computer games.**

**Q-4 What is the difference between an educational computer game, and an action or combat type computer game?**

**Q-5 Answer the following:**

- a) What are the steps to be taken to do calculations using a spreadsheet?
- b) How do you print worksheets?
- c) How can you rename a worksheet?

**Q-6 Answer the following:**

- a) Explain two benefits of using spreadsheet packages.
- b) Name two examples of spreadsheet packages.
- c) Name five ways in which spreadsheets are used in today's world.

**Q-7 Match the following features of spreadsheets with its correct description.**

**Q-8 Fill in the blanks in the following statements.**

- a) A \_\_\_\_ is an organised collection of information that can be stored on a computer.
- b) A \_\_\_\_ is a software program that is used to create and manage databases.
- c) A \_\_\_\_ is a single piece of information in a database.
- d) A \_\_\_\_ is a complete set of information in a database.
- e) A \_\_\_\_ is a collection of records in a database.
- f) A \_\_\_\_ is used to sort data in a database.

**Q-9 Identify the following types of databases.**

- a) 2.1 [City–Customer entity diagram] – \_\_\_\_
- b) 2.2 [Patient table] – \_\_\_\_
- c) 2.3 [School ER diagram] – \_\_\_\_

**Q-10 Explain three advantages of using databases.**

## **Chapter-53 Topic 53: Logic circuits**

**Q-1 Explain the term 'computer game' in your own words.**

**Q-2 List and briefly explain three advantages of playing computer games.**

- Q-3 List and briefly explain three disadvantages of playing computer games.**
- Q-4 What is the difference between an educational computer game, and an action or combat type computer game?**
- Q-5 Answer the following:**
- a) What are the steps to be taken to do calculations using a spreadsheet?
  - b) How do you print worksheets?
  - c) How can you rename a worksheet?
- Q-6 What is the difference between a logic gate, and a logic circuit?**
- Q-7 Answer the following:**
- a) What is meant by inputs and outputs in a logic gate?
  - b) In a computer, what physically controls inputs and outputs?
- Q-8 Explain the concept of the truth table.**
- Q-9 Logic gates are binary. What does this statement mean?**
- Q-10 Explain the terms 'inverse' and 'inverter'.**

## **Chapter-54 Topic 54: Spreadsheet packages**

- Q-1 Explain the term 'computer game' in your own words.**
- Q-2 List and briefly explain three advantages of playing computer games.**
- Q-3 List and briefly explain three disadvantages of playing computer games.**
- Q-4 What is the difference between an educational computer game, and an action or combat type computer game?**
- Q-5 Answer the following:**
- a) Explain two benefits of using spreadsheet packages.
  - b) Name two examples of spreadsheet packages.
  - c) Name five ways in which spreadsheets are used in today's world.

**Q-6 Match the following features of spreadsheets with its correct description.**

### **Chapter-55 Topic 55: Worksheets**

**Q-1 Explain the term 'computer game' in your own words.**

**Q-2 List and briefly explain three advantages of playing computer games.**

**Q-3 List and briefly explain three disadvantages of playing computer games.**

**Q-4 What is the difference between an educational computer game, and an action or combat type computer game?**

**Q-5 Answer the following:**

- a) What are the steps to be taken to do calculations using a spreadsheet?
- b) How do you print worksheets?
- c) How can you rename a worksheet?

### **Chapter-56 Topic 56: Graphs**

**Q-1 Use Microsoft Excel to copy the table below and answer the following questions.**

- a) What is the average score of each student? (Create a column).
- b) Calculate the sum of the students' scores for the first and third terms. Create a column to calculate your answer.
- c) Write the formula for finding the maximum score for Peters.
- d) Write the formula for finding the minimum score for Ngozi.
- e) Use the column 'Name of student' and 'Average score' to prepare a pie chart.

INSERT IMAGE OF TABLE

### **Chapter-57 Topic 57: Computer games**

**Q-1 Explain the term 'computer game' in your own words.**

**Q-2 List and briefly explain three advantages of playing computer games.**

- Q-3 List and briefly explain three disadvantages of playing computer games.**
- Q-4 What is the difference between an educational computer game, and an action or combat type computer game?**