

# CBSE | DEPARTMENT OF SKILL EDUCATION

## FOUNDATION SKILLS FOR SCIENCES (PHARMACEUTICALS AND BIOTECHNOLOGY) [SUBJECT CODE-421]

### MARKING SCHEME FOR CLASS IX (SESSION 2024-2025)

Max. Time: 2Hours

Max. Marks: 50

#### General Instructions:

1. Please read the instructions carefully.
2. This question paper consists of 22 questions in two sections – A and B.
3. Section – A has objective type questions where as Section B Contains subjective type questions.
4. Out of given (5+16)=21 questions, a candidate has to answer (5+10)=15 questions in the allotted (maximum) time of 2 hours.
5. All questions in a particular section must be attempted in correct order.
6. **SECTION A -OBJECTIVE TYPE QUESTIONS (24 MARKS):**
  - i. This section has 5 questions.
  - ii. There is no negative marking.
  - iii. Do as per the instruction given.
  - iv. Marks allotted are mentioned in each questions/part.
7. **SECTION B- SUBJECTIVE TYPE QUESTIONS (26 MARKS):**
  - i. This section has 16 questions
  - ii. A candidate has to do 10 questions
  - iii. Do as per the instruction given.
  - iv. Marks allotted are mentioned against each question/part.

#### SECTION –A : OBJECTIVE TYPE QUESTIONS

Q. No.	QUESTION	Source Material (NCERT/PSSCIVE/ CBSE Study Material)	Unit/ Chap.No.	Page no. of source material	Marks
<b>Q. 1</b>	<b>Answer any 4 out of the given 6 questions on Employability Skills (1 x 4 = 4 marks)</b>				
i.	Listening.	C.B.S.E. Study Material	1	16	1
ii.	Self confidence.	C.B.S.E. Study Material	2	19	1
iii.	Social factor	C.B.S.E. Study Material	2	2	1
iv.	Tablets.	C.B.S.E. Study Material	3	28	1
v.	Merchandising Business	C.B.S.E. Study Material	4	72	1
vi.	Deforestation	C.B.S.E. Study Material	5	85	1
<b>Q.2</b>	<b>Answer any 5 out of given 6 questions – (1X5=5 Marks)</b>				
i.	Over the counter (OTC) drug	C.B.S.E study Material	1	10	1
ii.	Cleaning Method	C.B.S.E study Material	2	28	1
iii.	Solid waste	C.B.S.E study Material	3	39	1
iv.	Chemical Exposure	C.B.S.E study Material	4	52	1
v.	Accurate	C.B.S.E study Material	5	63	1
vi.	Gender Discrimination	C.B.S.E study Material	6	70	1

<b>Q.3.</b>	<b>Answer any 5 out of 6 questions - (1X5=5 Marks)</b>				
i.	Improved health	C.B.S.E study Material	1	8	1
ii)	Hygiene refers to the practices and habits that promote cleanliness and good health	C.B.S.E study Material	2		1
iii.	Climate changes	C.B.S.E study Material	3	36	1
iv.	Environment, Health and Safety	C.B.S.E study Material	4	48	1
v.	Original	C.B.S.E study Material	5	63	1
vi.	Educate yourself	C.B.S.E study Material	6	71	1
<b>Q.4.</b>	<b>Answer any 5 out of the given 6 questions - (1X5=5 Marks)</b>				
i.	Research Scientist	C.B.S.E study Material	1	17	1
ii.	Cleaning is the process of removing dirt, dust, grime and other unwanted substances from surfaces, objects or environments.	C.B.S.E study Material	2	23	1
iii.	Reduce the use of lighting during Night cleaning	C.B.S.E study Material	3	38	1
iv.	Work place Hazards	C.B.S.E study Material	4	50	1
v.	Data in gritty refers to the accuracy, consistencies and reliability of data through out it is life cycle	C.B.S.E study Material	5	57	1
vi.	Limited opportunities	C.B.S.E study Material	6	71	1
<b>Q.5.</b>	<b>Answer any five questions out of 6 questions = (1X5=5 Marks)</b>				
i.	These are drugs that are produced and sold after the patent on a branded drug has expired	C.B.S.E study Material	1	10	1
ii.	Clean up spills immediately to prevent accidents and contamination.	C.B.S.E study Material	2	31	1
iii.	It helps in replacing non-renewable resources with renewable resources.	C.B.S.E study Material	3	35	1
iv.	PPE – Personal Protective Equipment	C.B.S.E study Material	4	51	1
v.	Attributable means information is captured in the record so, that it is uniquely identified.	C.B.S.E study Material	5	61	1
vi.	“Use Person’s first language”	C.B.S.E study Material	6	73	1

**SECTION – B, - SUBJECTIVE TYPE QUESTIONS**

Q. No.	QUESTION	Source Material (NCERT/PSSCIVE/ CBSE Study Material)	Unit/ Chap.No.	Page no. of source material	Marks
<b>Answer any 4 out of the given 6 questions on Employability Skills 20 – 30 words – (2X3=6)</b>					
Q.6.	i) Time consuming ii) Non flexible	C.B.S.E study Material	1	4	2
Q. 7.	i) General nearness ii) Appropriate dressing	C.B.S.E study Material	2	20	2
Q.8.	Assembler translates an assembly language program into machine language but compiler translates a high level language program into machine language for example c++ compiler.	C.B.S.E study Material	3	32	2
Q.9.	i) Lack of continued motivation ii) Lack of formal Education	C.B.S.E study Material	4	78	2
Q.10.	Green Economics will help maintaining resources for present use as well as for future generation while also enduring that more employment and investment options are created to promote economic growth of the country	C.B.S.E study Material	5	88	2
<b>Answer any 4 out of the given 6 questions in 20 - 30 words – (2X4=8)</b>					
Q.11.	i) High School diploma or Equivalent ii) Associate's degree	C.B.S.E study Material	1	16	2
Q.12.	i) Health – A clean work place helps to prevent the spread of germs and reduces the risk of illness such as cold or flu ii) Productivity – A clean and hygienic work place can significantly impact productivity levels.	C.B.S.E study Material	2	25	2
Q.13.	i) 'Green views' also boost focus and aid quicker recovery from stress ii) Plants in work places purify air and reduce the concentration of CO <sub>2</sub>	C.B.S.E study Material	3	37	2
Q.14.	i) Protection of human health ii) Preservation of the environment	C.B.S.E study Material	4	48	2

Q.15.	i) Clear and detailed records – Document all relevant information about the data ii) Standardized formats – Use consistent and standardized format for data entry.	C.B.S.E study Material	5	58	2
Q.16.	i) Don't make assumptions ii) Provide accommodations	C.B.S.E study Material	6	73	2

**Answer any 3 out of given 6 questions in 50 to 80 words each – (4X3=12)**

Q.17.	i) <u>Critical thinking</u> – Develop the activity to evaluate information think logically and  ii) <u>Communication skill</u> – Work on expressing ideas clearly and effectively both verbally and in writing.  iii) <u>Attention to detail</u> – Cultivate a habit of paying close attention to details especially when conducting experiment or recording data.	C.B.S.E. Study Materials	Unit 1	PS no. 18	4
Q.18	i) <u>Preventing Pollution</u> – Proper waste management ensures that waste materials such as chemical packaging materials and contaminated items are disposed of safely and responsibly.  ii) <u>Reducing health risk</u> – incorrect disposal of waste can pose serious health risks to employees and the surrounding community. For example – incorrect disposal of hazardous chemicals or medical waste can lead to water pollution.	C.B.S.E. Study Materials	Unit 2	PS no. 29	4
Q.19.	<u>Importance of Biodiversity</u> – • <u>Genetic diversity</u> – Different strains of plants like rice and mango offer unique traits that can be beneficial such as resistance to diseases. • <u>Species diversity</u> – Regions like western ghat showcase a wide range of amphibious	C.B.S.E. Study Materials	Unit 3	PS no. 40	4

	<p>high lighting the richness of species in specific areas.</p> <p><u>Two causes of loss of biodiversity</u>            (i) Loss of habitat due to deforestation especially in tropical rain forest.            (ii) <u>Over exploitation</u> – Unsustainable harvesting of resources like marine fish populations leads to species decline.</p>	C.B.S.E. Study Materials	Unit 3	Pg no. 41	4
Q20.	<p>Environment health and safety (E1+5) is a discipline that focuses on ensuring the protection of the environment, the health and well being of individuals and the safety of people.</p> <p><u>Significance in daily life:</u>            i) protection of human health            ii) preservation of the environment            iii) sustainable environment.            iv) Compliance and legal requirements.            v) Reputation and social responsibility.</p>	C.B.S.E. Study Materials	Unit 4	Pg no. 48	4
Q21.	<p>Two effective communication and collaboration with people with disabilities are as follows-</p> <p>i) <u>Respect and Dignity</u>            Treat individuals with disabilities with respect and dignity just as you would with anyone else.            ii) <u>Clear communication</u> – use clear and straight forward language when communicating.</p>	C.B.S.E. Study Materials	Unit 6	Pg no. 74	4