CBSE | DEPARTMENT OF SKILL EDUCATION

MULTI SKILL FOUNDATION COURSE (SUBJECT CODE-416)

Marking Scheme Sample Question Paper Class X (Session 2020-2021)

Max. Time: 2 Hours

General Instructions:

- 1. Please read the instructions carefully.
- 2. This Question Paper consists of 21 questions in two sections: Section A & Section B.
- **3.** Section A has Objective type questions whereas Section B contains Subjective type questions.
- 4. Out of the 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 of a particular section must be attempted in the correct order.

6. SECTION A - OBJECTIVE TYPE QUESTIONS (24 MARKS):

- i. This section has 05 questions.
- ii. Marks allotted are mentioned against each question/part.
- iii. There is no negative marking.
- iv. Do as per the instructions given.
- 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 instructions given.
 - iv. Marks allotted are mentioned against each question/part.

Max. Marks: 50

SECTION A: OBJECTIVE TYPE QUESTIONS

Q. 1	Answer any 4 out of the given 6 questions on Employability Skills (1 x 4 = 4 marks)	
i.	(d) Writing	1
ii.	(c) Neat and clean appearance	1
iii.	(b) Bargaining	1
iv.	(a) Global Positioning System	1
v.	(c) Both of the above	1
vi.	(a) Chemical pollution due to fertilizers	1

Q. 2	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	a. Alternating current	1
ii.	c. Bio-gas	1
iii.	b. Rain gauge	1
iv.	b. Protractor	1
v.	a. Communicable	1
vi.	d. All of the above	1

Q. 3	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	c. 60 years & above	1
ii.	a. Artificial Insemination	1
iii.	d. All of the above	1
iv.	d. 7	1
v.	b. Irregular line	1
vi.	a. Plastic rod	1

Q. 4	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	a. A mixture of cement, sand, gravel	1
ii.	d. All of the above	1
iii.	a. Dotted/Dashed	1
iv.	a. Motion by an explosion	1
٧.	b. Vitamin B	1
vi.	c. Both a and b	1

Q. 5	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	c. Both a and b	1
ii.	c. Both a and b	1
iii.	c. Both a and b	1
iv.	c. None of the above	1
v.	d. All of the above	1
vi.	d. All of the above	1

Q. 6	er each question in 20 – 30 words. There are 5 fundamental sources of energy :	2
.	(i) Nuclear fusion in the Sun (solar energy),	-
	(ii) Gravity generated by the Earth and Moon,	
	(iii) Nuclear fission reactions,	
	(iv) Energy in the interior of the Earth, and	
	(v) Energy stored in chemical bonds	
 . 7	Ability to take up risks	2
•	2. Believe in hard work and discipline	
	3. Adaptable and flexible to achieve the goals of enhancing quality and customer	
	satisfaction	
	4. Knowledge of the product and services and their need or demand in the market	
	5. Financial literacy and money management skills	
	6. Effective planning and execution	
Q. 8	To see the information on the various websites, you need an Internet Browser. An	2
	Internet Browser is an application or a software program on your computer or	
	laptop which helps you visit the various websites. Some examples of browsers are	
	Google Chrome, Mozilla Firefox and Internet Explorer.	
	Searching for information: Do the steps below to search for information on the	
	Internet.	
	- Open an Internet browser	
	- Type the topic, on which you want information, in the search box and hit the	
	Enter key.	
	- The search results having the required information will be displayed.	
 . 9	Given below are some factors that affects self-confidence.	2
	(a) When we think we cannot do a particular work.	
	(b) When we keep thinking of our past mistakes and feel bad about it, instead of	
	learning from them.	
	(c) When we expect to be successful at the first attempt itself and do not try again.	
	(d) When we are surrounded by people who have a negative attitude, which is	
	reflected in their speech.	
Q. 10	1. Physical barriers	2
	2. Language barriers	
	3. Gender barriers	
	4. Attitudinal barriers	
	5. Perceptual barriers	
	6. Cultural barriers	
	7. Emotional barriers	
Answei	any 4 out of the given 6 questions in 20 – 30 words each (2 x 4 = 8 marks)	
Q. 11	Ferro-cement is a new innovative construction material. In this, a skeleton is	2
	created using cement mortar, metal rods and mesh.	
Q. 12	Total mass of living matter is called as Biomass. Biomass is a fuel that is developed	2
	from organic materials, a renewable and sustainable source of energy used to	
	create electricity or other forms of power.	
	Waste from plant & animal origin can be used as biomass. The husk after	
	harvesting, dry leaves, dry vegetables, shells of nuts, crushed sugarcane, rice husk,	

Q. 13	• It is an alternate means of water supply to groun	d water. 2
	• The construction and farming would be possible	in areas with no water supply
	High quality of water: clean, pure without chemic	cals.
	 Zero expenditure on water supply 	
	 Soil erosion and flood will be less. 	
Q. 14	 Blood contains the following substances : 1. Plasma which contains 90% of the water, through in-organic materials takes place 2. Soluble substances - proteins, nutrients, hormone 3. Blood cells - red blood cells, white blood cells, the 4. Protein - Serum Albumin, Serum Globulin, Fibring 5. Nutrients - Glucose, amino acids, vitamins, miner 	es, enzymes, waste materials rombocytes ogen
	6. Hormones and enzymes.	
	7. Waste materials- urea, Co2.	
Q. 15	T square is used to provide a parallel support to one drawing perpendicular lines on the other edge of th Primary use for drawing horizontal lines on a draftir square to draw vertical lines.	e Set Square.
Q. 16		2
•	DIRECT CURRENT	ALTERNATING CURRENT
	direction and magnitude with respect to and mag	rent which changes its direction gnitude with respect to time is s alternating current.
	Direct current passes in one direction. Alternation	ting current periodically changes ection of flow.

Answer any 3 out of the given 5 questions in 50-80 words each (4 x 3 = 12 marks)

COMMUNICABLE DISEASE	NON-COMMUNICABLE DISEASE
The diseases spread from person to another, are called as communicable' diseases. These diseases can be spread through the air, water, etc.	The disease which does not spread from one person to another through any mode is called as non-communicable disease.

	Caused by pathogens and considered as highly infectious and vectors play the major role in spreading disease from one person to another	Caused due to allergy, illness, malnutrition or abnormalities in cell proliferation, changes in lifestyle, environment play a significant role.	
	It is caused by pathogens such as bacteria and virus.	No infectious agent.	
	Examples: Tuberculosis, AIDS, Typhoid, Cholera, Malaria.	Examples: Cancer, Rickets, Allergies, Kwashiorkor, Diabetes, Heart disease, etc.	
	This disease cannot be inherited from one generation to another	This disease can be inherited.	
	Treated by conventional methods. Acute (develops quickly).	Treated conservatively or surgically. Chronic (develops slowly and last for long-period).	
Q. 18	 components of the following) 1. Land- The area available must be consider products. Soil sample testing should unmanageable soils. 2. Irrigation Facilities- Required land with is the most important basic resource. Our prescribed level. 3. Labor- Skilled as well as unskilled man weeding, irrigation, spraying, dusting, trainer 4. Electricity- The availability of power or accordance with the man power available essential. Electricity is required for water operations. 	be done to avoid problematic sufficient and assured supply of irriga Quality of irrigation water should be power is necessary for grafting, budg ning, pruning electricity is also very important and ole. Regular supply of electricity is	and ation e at ding, is in very
	 5. Road and Transport - These facilities a stock and other material for the nursery. 6. Mother Plants - Mother plants she Government nurseries or from Agricultur selected very carefully as the sale of the plants used for the propagation. 7. Propagation Structures- Propagation st of grafts or seedlings. They are useful for Hardening of plants is done with the help of 8. Hedges and Compound - Thorny plants used for Hardening of Nursery Plants hardening of nursery plants. Young, pamindoors or in a greenhouse will need a per conditions, prior to planting. This transition 10. Store and Office - Garden tools, in the store of the store and office - Garden tools, in the store of the store and office - Garden tools, in the store of the	ral Universities. Mother plants should e nursery stock depends on the mo ructures are very essential for product or multiplication of grafts and seedlin of propagation structures. Ants like Chilar (thorny creeper), go ed as hedges in nurseries. Hedges pro- mals, theft, etc. - Small shade net houses are required opered seedlings that were grown ei eriod to adjust and acclimatize to outco on period is called "hardening off	from d be ther ction ings. Iden otect d for ther door

	11. Marketing - Marketing of plants and planting materials is the most crucial and	
	important part of the nursery business. The production of high quality true to the	
	type and attractive planting materials is absolutely necessary.	
Q. 19	 Working of a solar water heater: The solar heater system is generally installed on the roof tops, terraces or in huge grounds. The solar panels face the direction of sunlight and the system is constantly provided with a flow of water. Water gets heated with the help of sunlight. Since the storage tank is made of a material which can trap heat, the water in the tank stays hot throughout the night and can be ready for use in the morning. In a typical solar water heater, water is heated by solar thermal energy absorbed by the collectors. The hot water with lower density moves upwards and cold water with higher density moves down from the tank due to gravity head. Advantages of solar energy: It is pollution free. Solar energy is the most important form of non-conventional energy today. It is Easy to handle and has less maintenance. It is freely available in the environment. 	4
	Its instruments are easy and simple to handle.	
	 diligently : We must have a comprehensive and thorough knowledge of the tools and equipment that we need. During actual work, the tools and equipment should be handled carefully and safely As far as possible, avoid wearing loose clothes while at work. Clothing like scarf, veil may get trapped in a machine leading to fatal accident. While undertaking work like drilling, cutting, welding, threading, keep your face, especially eyes, away at a safe distance from the job. This helps to protect the face and eyes from the granular dusty metal hot particles while at work. Keep the workplace clean and tidy. Keep unnecessary things away, at an appropriate place. Switch off the main switch once the task is accomplished. Keep all the tools and equipment properly at an appropriate place. Safety Gear - Using the right safety gear is essential while at work. Intense heat and radiations generated during welding may harm your eyes. So, always use a goggle or welding glass. Use hand gloves while drilling. While dealing with any electrical appliance, it is advisable to wear rubber sole boots/slippers. Power tools should be properly insulated (electrically insulated) 	
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Q. 21	Transistor	4
	 Transistor plays a vital role as a semi-conductor in many electronic gadgets. It is used as an amplifier switch in many equipment. 	
	2. Due to its small size, it is used in place of electron tubes in modern electric gadgets. For example, the vacuum tubes from the old radios have been replaced by transistors, hence making them smaller in size.	
	Capacitor	
	1. Capacitor stores and regulates the fluctuation in current and transfers it to the electric circuit.	
	2. Capacitor is used to temporarily store electric energy. There are two electric conductors in a capacitor. These are separated by an insulator. Glass, vacuum	
	air, paper or plastics may be used as an insulator in the capacitor.3. In an electric connection or circuit, capacitor is used to block direct current in order to allow flow of alternating current.	