

CBSE | DEPARTMENT OF SKILL EDUCATION

DESIGN (SUBJECT CODE 830)

CLASS XII (SESSION 2021-2022)
MARKING SCHEME FOR TERM - II

Max. Time Allowed: 1 Hour (60 min)

Max. Marks: 25

SECTION A

(3 + 2 = 5 marks)

Answer any 03 questions out of the given 04 questions		1 x 3=3
Q.1	Why business plan is important for an entrepreneur? Answer: Importance of business planning: to make optimal uses of resources	1
Q.2	Enlist any 2 green jobs? Answer: Designer Carpenter	1
Q.3	What is the role of energy auditors? Answer: Energy auditors conduct hands-on test in order to determine the source of poor energy efficiency.	1
Q.4	Define 'Entrepreneurship'. Answer: Entrepreneurship is a process of developing a business plan, launching and running a business	1
Answer any 01 question out of the given 02 questions		2 x 1=2
Q.5	What are the common competencies of entrepreneurship? Answer: - Taking Initiative: It is about making the first move towards setting up of an enterprise and taking action. - Seeking and Acting on Opportunity: entrepreneur is always on the look-out or searching for opportunity - Persistence: An entrepreneur is never disheartened by failures and keeps trying, adapting and iterating to overcome obstacles Any 2	2
Q.6	'Green jobs are decent jobs' Justify the statement by giving their contribution to the environment. Answer: To preserve or restore the environment, be they in traditional sector, such as in manufacturing and construction sector or in the emerging green sector such as in renewable energy.	2

SECTION B

(4+8= 12 marks)

Answer any 04 questions out of the given 06 questions		1 x 4=4
Q.7	In Photoshop which tool is used to make selections with the help of Brush? Ans: Quick Mask tool	1
Q.8	What is COSHH? Answer: COSHH stands for 'Control of Substances Hazardous to Health'.	1
Q.9	Write any two health hazards associated with textile units. Answer: Exposure to cotton dust. Exposure to chemicals.	1
Q.10	What are the Photoshop's work areas? Ans: The Photoshop's work area includes Application Bar, Option Bar, Panel Dock and Tools panel.	1
Q.11	What should be included in a concept based design? Answer: 1. The start 2. Mood board 3. Magic box 4. Review	1
Q.12	What is musculoskeletal disorder? Answer: Injuries or disorders of the muscles, nerves, tendons, joints, cartilage, and spinal discs.	1
Answer any 04 questions out of the given 06 questions		2 x 4=8
Q.13	What is the purpose of a workplace health and safety inspection? Answer: Health and safety Inspectors are civil servants who deal with health and safety in workplaces. They make sure that employers follow health and safety legislation. Inspectors visit workplaces to make routine checks on standards.	2
Q.14	What is the role of PPE in workplace safety? Answer: Personal protective equipment, commonly referred to as "PPE", is equipment worn to minimize exposure to hazards that cause serious workplace injuries and illnesses.	2
Q.15	Illustrate the role played by design movement in the past influencing the future design. Answer: As a designer, inspiration can come from anywhere but sometimes influences, attitude and approaches converge to form a coherent movement that has effect around the world there have been hundreds of art and design movement of different significance over the centuries. Some centered on the style or approach of a collective of artist in a particular place, other much more organic in terms of interplay there after moved in circles. There are certain art and design movement. That creative need to be familiar with some of the movement are impressionism, cubism, Bauhaus, surrealism, minimalism. Pop art, constructivism etc.	2

Q.16	<p>What makes design eco-friendly? Answer: Eco-friendly design is sustainable, the creation, production, and eventual disposal of that product does not harm the environment. New technological advances and innovations make it easier for designers and architects to contribute toward a healthier planet</p>	2
Q.17	<p>What are the hazards associated with yarn manufacturing unit? Answer: The manufacturing unit involves machineries having higher rotary and travelling speeds. These speeds can cause noise pollution resulting in headache and dizziness. The workers and supervisors regularly engage themselves in processing and spinning of cotton with these machines. Continuous inhalation of cotton dust results in lung diseases and other health issues</p>	2
Q.18	<p>What are the common cause of injury and illness in the iron and steel industry? Answer: (i)Slips, trips and falls on the same level (ii) falls from height; (iii) unguarded machinery; (iv) moving machinery, on-site transport, forklifts and cranes; (v) exposure to mineral wools and fibres; (vi) inhalable agents (gases, vapours, dusts and fumes); (vii) skin contact with chemicals (irritants (acids, alkalis), solvents and sensitizers); (viii) contact with hot metal; (ix) fire and explosion; (x) extreme temperatures;</p>	2

**SECTION C
 (COMPETENCY BASED QUESTIONS)**

(2 x 4 = 8 marks)

Answer any 02 questions out of the given 03 questions		
Q.19	<p>How do we assess the risk control in metal and plastic industries? Answer: Safety risk management quality revolves around the ability to adequately assess various safety elements such as:</p> <ul style="list-style-type: none"> • Risk control adequacy • Likelihood of hazard or mishap occurring; • Severity of mishap; • What kinds of measures are needed to reduce exposure? <p>There are a few general principles that should be followed. Five steps to risk assessment:</p> <ol style="list-style-type: none"> 1. Identify the hazard. 2. Decide who might be harmed and how. 3. Evaluate the risk and decide on control measures. 4. Record your findings and implement them. 5. review your assessment and update it 	4

<p>Q.20</p>	<p>The concept of ageism plays a significant role in perceiving that older adults are less mentally and physically competent, incapable of adapting to the latest technology that could otherwise improve their overall health and well-being.</p> <p>Technology has driven a variety of societal, medical, and technical trends which has become an integral part of people’s daily lives. There is no denying how technology enhances and closes the gaps in the healthcare delivery system. However, there are still roadblocks that need to be considered and addressed for seniors using technology.</p> <p>Explain how technology can help senior citizens in healthcare and safety with suitable examples.</p> <p>Answer:</p> <p>They say that reaching the last stages of life is just like entering a second childhood. One must be very careful and mindful with dealing with the elderly. They are sensitive, gentle and fragile, and require special assistance from time to time. When it comes to caring for the elderly members in the family, the first thing we consider is environmental factors such as preventing falls and injury. We make sure that there are no loose rugs on which they may trip, we make sure that there is adequate lighting in every room so that the grannies and grandpas at home have no trouble with visibly and wayfinding, we even install extra steps or bars in the bathroom so that there is support while getting up. The technology have made the work of looking after the elderly people by improving their physical health and even their medical health.</p> <p>Some of the technologies are:</p> <p>Social connection: Internet based audio / video applications, email, whatsapp, skype and social media platforms are enabling senior citizens’ social interactions, when physically visiting friends and family members isn’t possible frequently.</p> <p>Safety: Elderly people who live alone, feel safer having a personal device which enables them to call for help with the simple push of a button. Both the elderly and their family members can have peace of mind, knowing that the device facilitates a call for help in any emergency situation. Safety is also a concern for those seniors who are suffering from Alzheimer’s disease. GPS tracking devices are available today that can monitor the location of seniors and send alerts to guardians or children. New wearable technology, like the Google Glass, could be particularly of great use for those who are struggling with the beginning stages of the Alzheimer's and Parkinson’s disease</p> <p>Information: Enable them to use the internet, gain information on their body, health conditions, find people who have answers to their questions and start conversations online.</p>	<p>4</p>
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Q.21	Why do we need training in emergency procedures? Answer: Organizations must be able to respond quickly and competently should an emergency situation unfold. Employees have to be properly trained to ensure they're able to thoroughly and rapidly put the emergency response plan into effect when something unexpected happens. Training also helps your employees to follow emergency plans which reduces the incidence of injuries and fatalities and also reduces damage to buildings, facilities and other property.	4
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