



Province of the
EASTERN CAPE
EDUCATION

**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

SEPTEMBER 2010

**DESIGN – PAPER 1
(THEORY)**

MARKS: 150

TIME: 3 hours



This question paper consists of 14 pages.

INSTRUCTIONS AND INFORMATION

1. This question paper consists of SEVEN questions. Answer all the questions.
2. There are optional questions, therefore the instructions at every question must be read carefully.
3. This question paper consists of THREE sections.

SECTION A: Design Literacy (80 marks) – QUESTIONS 1 – 4.

SECTION B: Design in a Social/Environmental Context (40 marks)
– QUESTIONS 5 and 6.

SECTION C: Design in a Business Context (30 marks) – QUESTION 7.

4. Read the requirements of the questions carefully.
5. Answer in full sentences and avoid the mere listing of facts.
6. Use the mark allocation to determine the time to be spent on each question.
7. Do not repeat the same facts and examples in different questions.
8. Write neatly and legibly.

SECTION A: DESIGN LITERACY**QUESTION 1: 'UNSEEN' DESIGNS TESTING VISUAL LITERACY**

1.1

**FIGURE A****Nested Bunk Bed by Tsai design studio (South Africa) (2008)**

The 'Nested Bunk Bed' design won the Red Dot design award in the 'Concept Category' and was also voted as 'the most beautiful object in South Africa' at the 2008 Design Indaba Expo. The beds can be pulled out and pushed back as required, according to the number of people that need a place to sleep.

1.1.1 First study the bunk bed design in FIGURE A above and read the accompanying information. Then discuss the design with reference to the following concept:

- Functionality
- 'Form follows function'

(4)

1.1.2 Name and discuss any THREE design elements and/or design principles and/or universal principles of design used in this bunk bed design. You may not refer to the universal principle "form follows function" in your answer.

(6)

1.2



FIGURE A
Tri-Flow tap by Zaha Hadid

A tap design by the award-winning architect, Zaha Hadid, for the British company, Triflow Concepts. The design looks like a freestanding, stainless steel sculpture and is able to dispense water in three different ways; both conventional hot and cold water streams are controlled by the handle and a separate waterway for filtered drinking water is activated by pressing an electronic button.

1.2.1 Study the above illustration and information and discuss how the use of each of the following contribute to the impact of the above tap design:

- Balance
- Negative space
- Line
- Texture

(4)

1.2.2 Discuss the possible symbolism visible in the above design. Justify your statements by referring to the design.

(2)

- 1.3 Study the chair design illustrated below as well as the accompanying quote and answer the questions that follow.



FIGURE B
'Bouquet chair' by Tokuji Yoshioka

The 'Bouquet' chair is made of hand-folded fabric squares sewn on one by one, to completely cover the internal surface of the egg-shaped shell.

- 1.3.1 Supply THREE reasons why the above design (FIGURE B) could be considered feminine. (3)
- 1.3.2 Do you think that this chair design makes use of crystallographic balance? Explain your answer. (1)

[20]

QUESTION 2

- 2.1 Study the 2010 South African soccer poster below and answer the question that follows.

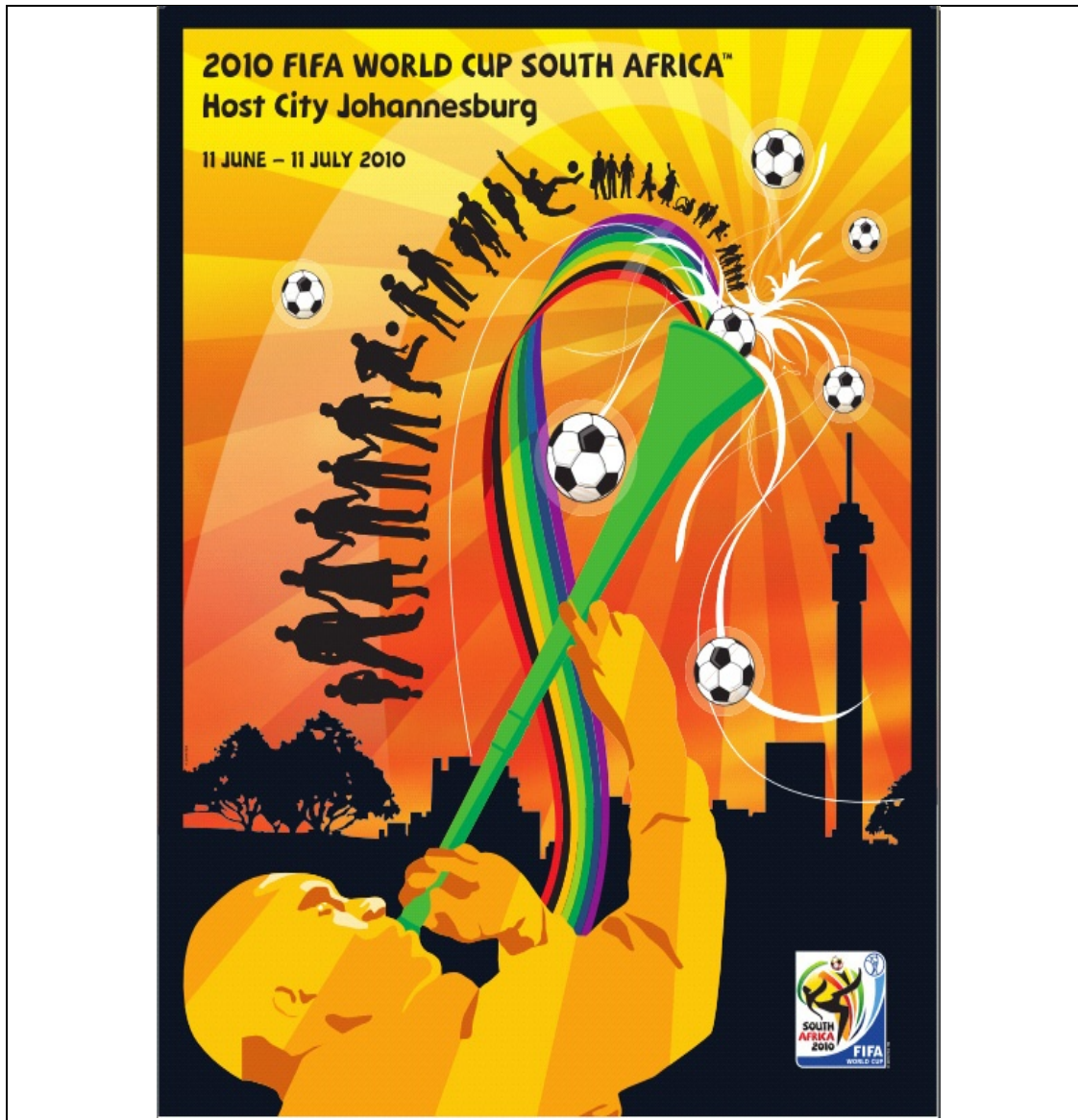


FIGURE A

- 2.1.1 Identify THREE symbols or signs that have been used to convey information about FIFA and Johannesburg and give reasons why you think they are/are not suitable.

(7)

2.2 Study the Body Shop Poster below and answer the questions that follow.



FIGURE B

2.2.1 What message does this poster in FIGURE B convey? (2)

2.2.2 Would you say that this poster displays 'bias' or 'stereotyping'? Explain your answer. (1)

[10]

QUESTION 3

3.1



FIGURE A:

Elephant Chair by Bernard Rancillac (1966) made during the Pop Age. Made from moulded plastic and steel.



FIGURE B:

The Madam Dakar chair by African designers Bibi Seck and Ayse Birsal (2008), for the Moroso showroom in Milan. They used traditional wire weaving techniques.

3.1.1 Compare the above two designs (i.e. discuss their similarities and differences) under the following headings:

- Context/Influences
- Shape and Form
- Balance
- Materials and techniques

(8)

3.1.2 The two African designers whose chair is illustrated in FIGURE B combine traditional African techniques and methods with European influences to reflect global or international trends. Explain your opinion of this practice in general.

(2)

3.2 Discuss the work of ONE contemporary South African designer of your choice.

Structure your essay under the following headings:

- Name of the designer
- Local/global influences and inspiration
- General characteristics
- Name and a brief description of at least ONE design.

(1)

(2)

(4)

(3)

[20]

QUESTION 4

4.1 Choose and write about TWO of the following movements to show the important contribution each one made to the development of design.

- Art Nouveau ('The Languid Line') (1890 – 1905)
- Bauhaus ('The Machine Aesthetic-Design for Industry') (1900 – 1930)
- The Modernist Age(Consumerism and Style – The Age of Streamlining) (1935 – 1955)
- The Pop/New Age ('Modernism goes Pop –the Age of Affluence') (1955 – 1975)
- The 'Post-Modern' Age ('Style now – Less is a Bore') (1965 – until today)

Structure your essay around the following headings for each of the two styles/movements chosen.

- Name of style/movement that you have chosen. (2)
 - Aims (2)
 - Influences on the style (2)
 - Characteristics of the style (3)
 - One or more designs that truly reflect the style of that period. (3)
- Explain why the design is typical of the movement it belongs to.

(2 x 10 = 20)

4.2 Compare FIGURE A and FIGURE B below and answer the questions that follow.



FIGURE A
Pimpernel Wallpaper Design by William Morris (England) (1876)
Arts and Crafts.



FIGURE B
Product, designer and date unknown.
Art Deco Textile Design

- 4.2.1 Compare the similarities and differences between FIGURE A and FIGURE B to show why each design is typical of the movement to which it belongs. (6)
- 4.2.2 Chose either Arts and Crafts (FIGURE A) or Art Deco (FIGURE B) and explain TWO aims and TWO influences of the movement/style. (4)
- [30]

TOTAL SECTION A: 80

SECTION B: DESIGN IN A SOCIAL/ENVIRONMENTAL CONTEXT

QUESTION 5

5.1



FIGURE A

- 5.1.1 What is the social message communicated by the above poster and is it effective? Give reasons. (2)

5.1.2 Discuss the work of ONE INTERNATIONAL designer that you have studied whose work addresses social issues. Marks will be given for:

- The name of the designer (1)
- A brief explanation of the designer's aims. (3)
- The title and a brief analysis of ONE work that addresses social issues or concerns. (4)

5.2 Study the poster below and answer the question that follows.



FIGURE B
Wheelchair Poster by Jupiter Drawing Room
for the 'Arrive Alive' campaign (2007) (South Africa)

- 5.2.1 FIGURE B is a poster that communicates the danger of drinking and driving. Explain how the typeface, text, space and images contribute to this message. (4)
- 5.2.2 Discuss the work of ONE contemporary South African designer or design group involved in improving social circumstances/poverty or any other social issue.

(Your answer may not refer to either of the poster designs in 5.1 or 5.2.) (6)
[20]

QUESTION 6:

Answer QUESTION 6.1 and QUESTION 6.2. (2 x 10 marks) or only 6.3 (20 marks).

- 6.1 6.1.1 List FOUR ways in which an eco-friendly living environment can be created. (4)
- 6.1.2 Write about ONE South African designer whose designs address environmental issues under the following headings:
- The name of the designer. (1)
 - His/her aims. (1)
 - The influences on his/her work. (2)
 - The name and a brief analysis of ONE of his/her product designs, with particular reference to the way it addresses environmental issues. (2)

AND

- 6.2 Study the designs in FIGURE A and FIGURE B below and then answer the questions that follow.



FIGURE A

Hanger light by Sonic Design (USA)
A 'Repurposed' design where coat hangers have been put to another use as a lampshade.



FIGURE B

The Mould Chair was formed by Kazutoshi Amano Shinichi Sasaki (Japan). It is one of a line of products made from 100% recycled cardboard pulp and is fully biodegradable. When no longer required the chair becomes compost for the soil.

- 6.2.1 Explain in which ways FIGURE A and FIGURE B contribute to a sustainable 'green' environment. (2)
- 6.2.2 Which ONE of these two designs would you consider to be the most environmentally friendly? Motivate your answer. (2)
- 6.2.3 Name and discuss the work of any ONE INTERNATIONAL designer of your choice who has focused on eco-friendly issues. (6)
- [20]**

OR

- 6.3 Write an essay on 'sustainable' or 'green' design in which you refer to the work of at least ONE LOCAL designer and at least ONE INTERNATIONAL designer to support your statements.

Your essay must include a definition of 'sustainable' or 'green design'. **[20]**

TOTAL SECTION B: 40

SECTION C: DESIGN IN A BUSINESS CONTEXT

QUESTION 7

Answer ALL the questions that follow.

- 7.1 During your years of studying design you have been exposed to some award-winning or successful designers and design businesses.

Choose one award-winning designer or business and discuss their work under the following headings.

- Business and marketing strategy. (3)
- Environmental and social responsibility (2)
- The name and description of ONE product by the designer or business. (2)

- 7.2 Apply the following questions to the design discipline/field that you are studying. Begin by giving the name of that field or discipline.

- 7.2.1 List at least THREE careers or types of employment available to a person qualified in your particular field. (3)
- 7.2.2 Name TWO officially recognised institutions that offer courses/degrees or diplomas in this field and name the qualification that can be obtained from each one. (2)

- 7.3 You are on the verge of opening up your own design business and need to apply to a bank for a business loan.
- 7.3.1 Supply the following information for your business plan:
- The proposed business name. (1)
 - The type of business you have chosen (e.g. sole proprietor, co-operative, etc.) and the reasons for your choice. (1)
 - A mission statement, i.e. the aims and vision of your company, including what you plan to produce and where it will be sold. (1)
 - The type of accounting system that will be used including the reasons for your choice. (1)
 - Establishing a target market (2)
 - Employment of staff (2)
- 7.3.2 Supply a SWOT and PESTLE analysis of your product and business to show how this has helped you come to a better understanding of your business. (8)
- 7.4 Study the following TWO LOGOS very carefully and answer the question that follows.



FIGURE A

FIGURE B

- 7.4.1 Through a reasoned comparison of the above logos, (FIGURE A and FIGURE B), explain which one is the most successful. (2)

TOTAL SECTION C: 30

GRAND TOTAL: 150

7.3 Jy is op die drumpel daarvan om jou eie ontwerpsbesigheid te begin en moet
aansoek doen vir n besighedslening.

7.3.1 Verskat die volgende informasie vir jou besighedsplan:

- Die voorgenome naam van die besigheid. (1)
- Die tipe besigheid wat jy gekies het (bv. alleeneienaar, kooperatief, ens.) en die redes vir jou keuse. (1)
- n Taakstelling, bv. die doelwitte en visie van jou besigheid, insluitende jou produksieplan en waar dit verkoop sal word. (1)
- Die tipe boekhoustelsel wat gebruik sal word en die redes vir jou keuse. (1)
- Vestiging van n teikenmark. (2)
- Indiensneming van personeel. (2)

7.3.2 Verskat n 'SWOT'-en 'PESTLE'-analise van jou produk en besigheid om te wys hoe dit jou gehelp het om tot n beter begrip te kom van jou besigheid. (8)

7.4 Bestudeer die volgende TWEE LOGO'S noukeurig en beantwoord die vrae wat volg.



7.4.1 Deur n goed beredeneerde vergelyking te maak tussen die logo's hierbo (FIGUUR A en FIGUUR B), verduidelik watter een is die suksesvolste. (2)

TOTAAL AFDELING C: 30

GROOTTOTAAL: 150

- 6.2.1 Verduidelik op watter maniere FIGUR A en FIGUR B bydra tot 'n volhoubare groen omgewing. (2)
- 6.2.2 Watter EEN van hierdie twee ontwerpe, dink jy is meer omgewingsvriendelik? Motiveer jou antwoord. (2)
- 6.2.3 Noem en bespreek die werk van enige EEN INTERNASIONALE ontwerper van jou keuse wat fokus op eko-vriendelike kwessies. (6)

[20]

OF

- 6.3 Skryf 'n opstel oor volhoubare of 'groen' ontwerp waarin jy verwys na die werk van ten minste EEN PLAASLIKE ontwerper en ten minste EEN INTERNASIONALE ontwerper om jou stellings te ondersteun. (20)

[20]

TOTAAL AFDELING B: 40

AFDELING C: ONTWERP IN 'N BESIGHEIDSKONTEKS

VRAAG 7

Beantwoord AL die vrae wat volg.

- 7.1 Gedurende jou studies in ontwerp was jy blootgestel aan sommige prys-wenner ontwerpers en ontwerp besighede.
- Kies een prys-wenner ontwerper of besigheid en bespreek hulle werk onder die volgende opskrifte:

- Besigheds- en bemarkingsstrategie
- Omgewing en sosiale verantwoordelikhed
- Die naam en beskrywing van EEN produk van daardie ontwerper of besigheid.

(2)

(2)

(3)

- 7.2 Die volgende vrae is van toepassing op die ontwerpdissiplines/veld wat jy studeer. Begin deur die naam van daardie dissipline of veld te verskat.

- 7.2.1 Lys ten minste DRIE beroepe of werksgeleenthede beskikbaar vir 'n persoon wat gekwalifiseerd is in jou spesifieke veld. (3)

- 7.2.2 Noem TWEE amptelik erkende instansies wat kursusse/grade of diplomas in die veld aanbied en noem die kwalifikasie wat van elk verkry word. (2)

VRAAG 6

Beantwoord VRAAG 6.1 en VRAAG 6.2. (2 x 10 punte) OF 6.3 (20 punte).

6.1 6.1.1 Lys VIER maniere hoe 'n eko-vriendelike, lewende omgewing geskep kan word. (4)

6.1.2 Skryf oor EEN Suid-Afrikaanse ontwerper wie se ontwerpe omgewingskwessies aanspreek. Gebruik die volgende opskrifte: (1)

- Die naam van die ontwerper (1)
 - Sy/haar doelstellings (1)
 - Die invloed op sy/haar werk (2)
 - Die naam en 'n kort analise van EEN van sy/haar produkte (2)
- ontwerper omgewingskwessies aanspreek. (2)

EN

6.2 Bestudeer die ontwerpe in FIGUR A en FIGUR B hieronder en beantwoord die vrae wat volg.



FIGUR A

FIGUR B

Hanger lig
n 'Nuwe Bedoeiling' ('Repurposed') deur
Sonic Design, VSA, is 'n ontwerp waar
hangers gebruik word vir 'n ander doel, nl.
as 'n ligskerm.

'Gietvorm' ('Mould') stoel
was geskep deur Kazutoshi Amano en
Shinichi Sasaki, Japan. Dit is een van 'n
reeks produkte wat gemaak is van 100%
herbruikbare kartonpulp en is heeltemal
afbreekbaar. Wanneer die stoel nie meer
nodig is nie word dit kompos vir die
grond.

5.1.2 Bespreek die werk van EEN INTERNASIONALE ontwerper wat jy bestudeer het wie se werk sosiale kwessies aanspreek.

Punte sal toegeken word aan die volgende:

- Die naam van die ontwerper
- 'n Kort verduideliking van die ontwerper se doelstellings
- Die titel en 'n kort analise (ontleding) van EEN werk wat sosiale kwessies aanspreek.

(1)
(3)
(4)

5.2 Bestudeer die plakkaat hieronder en beantwoord die vrae wat volg.



FIGUR B

Rolstoel Plakkaat deur The Jupiter Drawing Room vir die 'Arrive Alive' Veldtog (2007) Suid-Afrika

5.2.1 FIGUR B is 'n plakkaat wat die gevaar van dronkbestuur uitbeeld. Verduidelik hoe die lettertipe, die teks, die ruimte en die beelde help om die boodskap oor te dra.

(4)

5.2.2 Bespreek die werk van EEN kontemporêre Suid- Afrikaanse ontwerper of ontwerpgroep wat betrokke is met die verbetering van sosiale omstandighede/armoede of enige ander sosiale kwessie.

(Jy mag nie die plakkaatontwerpe van die vorige twee plakkate in 5.1 of 5.2 gebruik vir 'n antwoord nie.)

(6)
[20]

- 4.2.1

Verduidelik die verskille en ooreenkomste te sien in FIGUR A en FIGUR B om te wys hoe elk van die bostaande ontwerpe tipies is van die beweging waaraan hulle behoort.

(6)
- 4.2.2

Kies die Kuns- en Kunslytbeweging (FIGUR A) of Art Deco (FIGUR B) en verduidelik TWEE doelwitte en TWEE invloede van die beweging/styl.

(4)
- [30]

TOTAAL AFDELING A: 80

AFDELING B: ONTWERP IN 'N SOSIALE- OF OMGEWINGSKONTEKS

VRAAG 5



- 5.1.1

Wat is die sosiale boodskap wat die bostaande plakkaat probeer kommunikeer en is dit effektief? Gee redes.

(2)

VRAAG 4

4.1 Kies en skryf oor TWEE van die volgende bewegings om aan te dui hoe elkeen 'n belangrike bydra gelewer het tot die ontwikkeling van Ontwerp.

- Bauhaus ('Die Masjien Estetika: Ontwerp vir Industrie') (1900 – 1930)
- Art Nouveau ('Die Lustlose Lyn') (1890 – 1905)
- Moderne Era ('Verbruikersmark en Styl' – Die Era van Vaartbelyntheid) (1935 – 1955)
- Pop/Nuwe-Era ('Modernisme word Pop – die Era van Oorloed') (1955 – 1975)
- Die 'Postmoderne' Era ('Hedendaagse styl – 'Less is a Bore') (1965 – tot die hede)

Bou jou opstel om die volgende opskrifte vir elk van die TWEE bewegings wat jy kies:

- Naam van styl/beweging wat jy kies om te bespreek
- Doelstellings
- Invloede op die styl
- Karakteristieke van die styl

- Een of meer ontwerpe wat waarlik die styl van daardie tydperk weerspieël.
- Verduidelik waarom 'n ontwerp eie is aan die beweging waaruit dit kom.

(2 x 10 = 20)

- (2)
- (2)
- (3)
- (3)

4.2 Vergelyk FIGUR A en FIGUR B hieronder en beantwoord die vrae wat volg.



FIGUR A

Ontwerp vir Pimpernel muurpapier, William Morris, Engeland (1876). Kuns- en Kunslyt Tekstielontwerp



FIGUR B

Produk, ontwerper en datum onbekend. Art Deco Tekstielontwerp

VRAAG 3

3.1

FIGUR A:
'Ollifant stoel' deur Bernard Rancillac (1966)
Gemaak van plastiek en staal.



FIGUR B:
Die 'Madam Dakar' stoel deur ontwerpers
van Afrika, Bibi Seck en Ayse Birsel (2008)
vir die Moroso uitstallokaal in Milaan.
Hulle gebruik tradisionele weeftegnieke.

3.1.1 Vergelyk die twee ontwerpe hierbo (o.a. bespreek hulle ooreenkomste en verskille) onder die volgende opskrifte:

- Konteks/Invloede
- Vorm en fatsoen
- Balans
- Materiale en tegnieke

(8)

3.1.2 Die twee ontwerpers uit Afrika wie se stoel gewys word in FIGUR B kombineer tradisionele Afrika-tegnieke en -metodes met Europese invloed om wêreldwye/internasionale tendense te weerspieël. Verduidelik jou opinie oor hierdie tendens as 'n geheel.

(2)

3.2 Bespreek die werk van EEN kontemporêre Suid-Afrikaanse ontwerper van jou keuse.

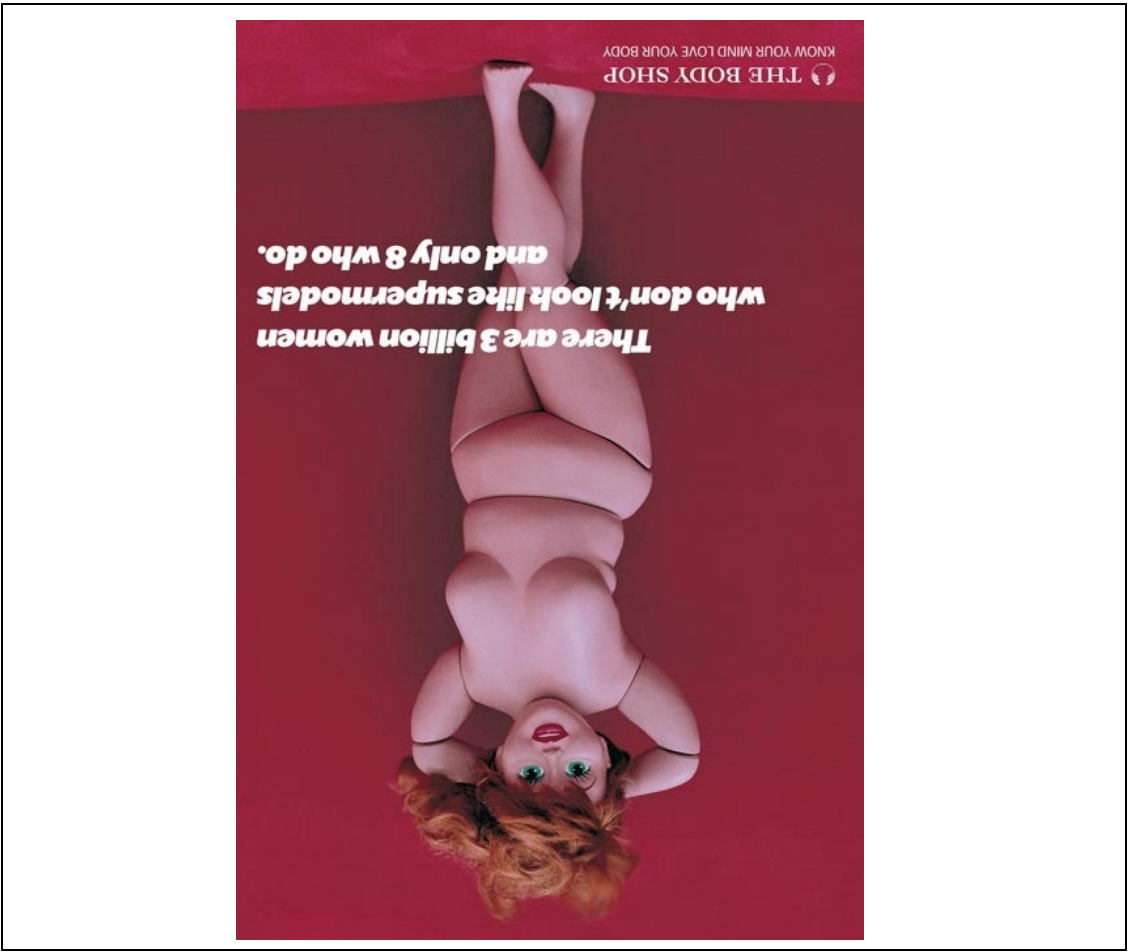
Bou jou opstel rondom die volgende onderwerpe:

- Naam van die ontwerper
- Plaaslike/globale invloed en inspirasie
- Algemene karakteristieke
- Naam en 'n kort bespreking van ten minste EEN ontwerp

[20]

(1)
(2)
(4)
(3)

2.2 Bestudeer die 'Body Shop' plakkaat hieronder en beantwoord die vrae wat volg.



FIGUR B

2.2.1 Watter boodskap dra die plakkaat in FIGUR B oor? (2)

2.2.2 Sou jy sê die plakkaat toon tekens van 'bevooroordeling' of 'stereotipering'? Verduidelik jou antwoord. (1)

[10]

VRAAG 2

- 2.1 Bestudeer die Suid-Afrikaanse 2010-sokkerplakkaat hieronder en beantwoord die vrae wat volg.



FIGUUR A

- 2.1.1 Identifiseer DRIE simbole of tekens wat gebruik is om inligting oor FIFA en Johannesburg oor te dra en gee redes hoekom jy dink hulle is/is nie toepaslik (nie).

(7)

- 1.3 Bestudeer die illustrasie van 'n stoelontwerp hieronder asook die bygaande aanhaling. Beantwoord die vrae wat volg.



FIGUR B
'Ruiker' ('Bouquet' stoel) deur Tokujin Yoshioka

Die 'Ruiker' ('Bouquet') stoel is gemaak uit handgevoude lapblokkies wat een vir een aanmekaar gewerk is, om heeltemal die interne oppervlak van die eievormige basis te bedek.

- 1.3.1 Verskat DRIE redes hoekom die ontwerp in (FIGUR B) hierbo gesien kan word as 'vroulik'.

- 1.3.2 Dink jy dat hierdie stoelontwerp gebruik maak van kristallografiese balans? Verduidelik jou antwoord.

(1)
[20]

1.2



FIGUR B
Tri-Flow kraan deur Zaha Hadid

Die bekreonde argitek, Zaha Hadid het hierdie kraan vir die Britse maatskappy, Triflow Concepts, ontwerp. Die ontwerp lyk soos 'n losstaande, vleklose staal beeldhouwerk en het die vermoë om water op drie verskillende maniere vry te laat; konvensionele warm en koue water stroom uit deur die handvatsele te gebruik en 'n aparte waterweg vir filtreerde drinkwater word geaktiveer deur die elektroniese knoppie te druk.

1.2.1 Bestudeer die illustrasie en informasie hierbo. Bespreek hoe die gebruik van elk van die volgende byvoeg tot die impak van die kraanontwerp:

- Balans
- Negatiewe vlak
- Lyn
- Tekstuur

1.2.2 Bespreek die moontlike simboliek soos gesien in die ontwerp hierbo. Staaf jou stellings deur te verwys na die ontwerp.

(4)

(2)

AFDELING A: ONTWERPSELEKTERDHEID

VRAAG 1: 'ONGESIENE ONTWERP' – TOETS ONTWERPSELEKTERDHEID



1.1

FIGUR A
'Slaapbank Nes' ('Nestd Bunk Bed') deur die Tsai Ontwerpsatellj
(Suid-Afrikaans) (2008)

Die 'Slaapbank Nes' ('Nestd Bunk Bed') het die Rooi Kol ontwerpstoekeening
gewen in die konsep kategorie en was ook gestem as die 'mooiste voorwerp in
Suid-Afrika' by die 2008 Ontwerp Indaba Expo. Die beddens kan uitgetrek en
teruggestoot word na behoeftte deur die hoeveelheid mense wat n bed benodig
om op te slaap.

- 1.1.1 Bestudeer die 'slaapbank' ontwerp in FIGUR A en lees die bygaande
informatie. Bespreek dan die postaande 'slaapbank' ontwerp met
verwysing na die volgende konsepte:
- Funktionaliteit
 - 'Vorm volg funksie'
- (4)

- 1.1.2 Noem en bespreek enige DRIE van die ontwerp elemente en/of
beginsels van ontwerp en/of univerele beginsels van ontwerp wat
gebruik word in hierdie 'slaapbank' ontwerp. Jy mag nie verwys na die
univerele beginsel 'vorm volg funksie' in jou antwoord nie.
- (6)

INSTRUKSIES EN INLIGTING

1. Daar is SEWE vrae in hierdie vraestel. Beantwoord al die vrae.
2. Daar is keusevrae, lees dus die instruksies by elke vraag noukeurig deur.
3. Die vraestel bestaan uit TWEE afdelings.
 - AFDELING A: Ontwergesleëtheid (80 punte) – VRAE 1 tot 4.
 - AFDELING B: Ontwerp in 'n sosiale- of omgewingskonteks (40 punte) – VRAE 5 en 6.
 - AFDELING C: Ontwerp in 'n besighedskonteks (30 punte) – VRAAG 7.
4. Lees die vereistes van elke vraag noukeurig deur.
5. Beantwoord in volsinne – moenie bloot net feite opnoem nie.
6. Die puntetoekenning van elke vraag bepaal die hoeveelheid tyd wat spandeer moet word op daardie vraag.
7. Moenie inligting en voorbeelde in verskillende vrae herhaal nie.
8. Skryf netjies en leesbaar.



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GRAAD 12

SEPTEMBER 2010

**ONTWERP – VRAESTEL 1
(TEORIE)**

PUNTE: 150

TYD: 3 uur



Hierdie vraestel bestaan uit 14 bladsye.