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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2023/2024**

- COURSE NAME : HALAL FOOD
- COURSE CODE : BWD 22402
- PROGRAMME CODE : BWD
- EXAMINATION DATE : JULY 2024
- DURATION : 2 HOURS
- INSTRUCTIONS :
1. ANSWER ALL QUESTIONS
 2. THIS FINAL EXAMINATION IS CONDUCTED VIA
 - Open book
 - Closed book
 3. STUDENTS ARE **PROHIBITED** TO CONSULT THEIR OWN MATERIAL OR ANY EXTERNAL RESOURCES DURING THE EXAMINATION CONDUCTED VIA CLOSED BOOK

THIS QUESTION PAPER CONSISTS OF SIXTEEN (16) PAGES

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Q1 The following are the reasons regarding the demand of halal certified foods increasing in the market, **EXCEPT**

- (a) The Muslim consumers seeking halal certified foods is increasing
- (b) The growing rate of Muslim population in the world is increasing
- (c) The Muslim population in the world is expected to become the largest in 2030
- (d) The non- Muslim consumers seeking the quality offered by halal certified foods

(1 mark)

Q2 The chicken which was not slaughtered according to syariah law is categorized as ____

- (a) Sunah
- (b) Makruh
- (c) Haram li zatihi
- (d) Haram li ghairihi

(1 mark)

Q3 Determine the **CORRECT** arrangement of major sources of jurisprudence regarding halal food.

- (a) Qiyas, Ijma, Hadith, Qur'an
- (b) Qur'an, Ijma, Hadith, Qiyas
- (c) Hadith, Ijma, Qiyas, Qur'an
- (d) Qur'an, Hadith, Ijma, Qiyas

(1 mark)

Q4 'Robin Hood robs the rich people for their money, food, and other belongings to help the poor'. Categorize the act of Robin Hood into the principle which is related to Islamic principles pertaining to halal and haram by Al-Qaradawi.

- (a) Principle 11
- (b) Principle 8
- (c) Principle 5
- (d) Principle 2

(1 mark)

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- Q5** David has been using the plate to eat cake which contains lard. Determine the correct method to clean the plate from the mughallazah najis.
- (a) Clean the plate with seven times using tap water
 - (b) Clean the plate with seven times using tap water mixed with soil
 - (c) Clean the plate with one time using tap water mixed with soil and six times using tap water
 - (d) Clean the plate with six times using tap water mixed with soil and one time using tap water
- (1 mark)
- Q6** The following are definition of halal food according to Halal Standard MS1500:2019, **EXCEPT**
- (a) Does not prepared using equipment that is contaminated with najis
 - (b) Does not contain any parts of animals that are non-halal
 - (c) Does not contain any ingredients that are najis
 - (d) Does not contain unhealthy ingredients
- (1 mark)
- Q7** According to Malaysian Standards MS1500:2019, halal slaughtering process of animal involves restraining, stunning (if used) and severing of _____
- (a) trachea, oesophagus, pulmonary arteries and jugular veins
 - (b) larynx, oesophagus, carotid arteries and jugular veins
 - (c) trachea, oesophagus, carotid arteries and jugular veins
 - (d) larynx, oesophagus, pulmonary arteries and jugular veins
- (1 mark)
- Q8** Syafiqah has slaughtered the chicken, however she forgot to say 'Bismillah' before the slaughtering process. Determine the status of the chicken.
- (a) Halal
 - (b) Syubhah
 - (c) Makruh
 - (d) Haram
- (1 mark)
- Q9** Determine the electrical water bath stunning parameters for chicken slaughtering which are permissible according to Malaysian Protocol procedure.

	Weight (kg)	Voltage (V)	Current (A)	Duration (s)
A.	2.5	5.5	0.2	4
B.	2.5	10.5	0.5	6
C.	2.6	15.5	1.0	8
D.	2.6	20.5	2.0	10

(1 mark)

Q10 AAA Enterprise is a halal certified slaughterhouse in poultry category. They plan to add the new products of processed poultry. Below are the options of poultry processed products to ensure the halal certified could be maintained, **EXCEPT**

- (a) Green pigeon
- (b) Ostriches
- (c) Turkeys
- (d) Quails

(1 mark)

Q11 Ahmad is a slaughterman working at XYZ Slaughterhouse Sdn Bhd. The company is practices stunning for the cattle. Determine the following condition applied by Ahmad which cause the animal slaughtered fall under the category of non-halal.

- (a) The protective collar around head has been used during stunning
- (b) The air pressure that powers the stunner is 215 psi
- (c) The animal has been stunned twice
- (d) The skull damage has been rating 2

(1 mark)

Q12 Determine the responsibilities of Muslim Halal Checker.

- (a) Shall be establish the internal halal control system
- (b) Shall be satisfied that animal provided are still alive or deemed to be alive
- (c) Shall be responsible to stun the animal before the slaughtering process is conducted
- (d) Shall be verified that the stunning operation is conducted according to the Malaysian Protocol

(1 mark)

Q13 The first revelation of alcohol is presented in the Quran in Chapter II, Verse 219, as stated below,

They question thee about strong drink and games of chance. Say: In both is great sin, and some utility for men; but the sin of them is greater than their usefulness. And they ask thee what they ought to spend. Say: That which is superfluous. Thus Allah maketh plain to you (His) revelations, that haply ye may reflect.

The word strong drink is referring to _____

- (a) Iso-propyl alcohol
- (b) Amyl alcohol
- (c) Methanol
- (d) Ethanol

(1 mark)

Q14 Choose the **CORRECT** pair about major categories of alcoholic beverages.

- (a) Spirit beverages – made by combining fermented beverages with flavouring substances
- (b) Compound beverages – made by distillation of fermented beverages
- (c) Fortified beverages – the alcohol content can be up to 80%
- (d) Fermented beverages – contain 3 to 80% alcohol

(1 mark)

Q15 Categorize the halal status of ‘alcohol’ from fermented dates.

- (a) Makrooh
- (b) Doubtful
- (c) Haram
- (d) Halal

(1 mark)

Q16 Vinegar from wine through *istihala* process will fall under the category of ____

- (a) Makrooh
- (b) Doubtful
- (c) Haram
- (d) Halal

(1 mark)

Q17 Rose flavor extracted from rose flower by using propanol is considered ____

- (a) Makrooh
- (b) Doubtful
- (c) Haram
- (d) Halal

(1 mark)

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Q18 The following are correct regarding the usage of 'alcohol' in food production, **EXCEPT**

- (a) As ingredient in confectionary products
- (b) As solvent in food flavour preparation
- (c) As preservative to prolong shelf life
- (d) As alcoholic beverages

1 mark)

Q19 Alcohol is prohibited to be added in halal food products. Determine from the following the chapter and verse in the Quran which state that alcohol is prohibited for Muslims.

- (a) Chapter II, Verse 219
- (b) Chapter V, Verse 90
- (c) Chapter IV, Verse 43
- (d) Chapter I, Verse 117

(1 mark)

Q20 Analyse the carbonated herbal drinks that was developed from the herbal plant extracted by using ethyl alcohol below and determine which should consider as haram.

- (a) The amount of ethyl alcohol detected in end product is 0.9%.
- (b) The herbal extract used contain 90% phenolic compounds.
- (c) The amount of 0.01% wine was added as ingredient.
- (d) The herbal flavour added contain 0.05% ethanol.

(1 mark)

Q21 Gelatin is being used in varieties of food and beverage products. The following is correct about gelatin, **EXCEPT**

- (a) Gelatin made from pork skin is categorized as Type A gelatin
- (b) Gelatin made from fish is categorized as Type B gelatin
- (c) Gelatin made from plant polysaccharide is called pectin
- (d) Gelatin is a collagen tissue which has been hydrolyzed

(1 mark)

Q22 Gelatin can be extracted from _____

- (a) hydrolyzed lard
- (b) bird's feathers
- (c) cattle's skin

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- (d) fish's bones

(1 mark)

Q23 The following are plant sources substitutes for gelatin, **EXCEPT**

- (a) Celulose gum
- (b) Xanthan gum
- (c) Arabic gum
- (d) Gelose

(1 mark)

Q24 The following are some of the commonly used ingredients in cereal and confectionary industries whose halal status is questionable **EXCEPT**

- (a) Tween 60
- (b) L-Cystein
- (c) Gelatin
- (d) Pectin

(1 mark)

Q25 Pan grease and release agents might contain doubtful ingredients such as

- (a) Zein protein
- (b) Tween 80
- (c) Gelatin
- (d) Lard

(1 mark)

Q26 Arrange the correct steps in gelatin production from green bones.

- (I) Degreasing, acid treatment and lime treatment
- (II) Extraction, evaporation, extrusion and drying
- (III) Packing and labelling
- (IV) Milling and blending

- (a) I, II, III, IV
- (b) I, II, IV, III
- (c) II, I, III, IV
- (d) II, I, IV, III

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(1 mark)

Q27 Enzymes play a significant role in food production. The following are the used of enzymes in food industries, **EXCEPT**

- (a) Reduce the allergic properties of dairy products
- (b) Help the milk to coagulate in cheese making
- (c) Improve the freshness of breads
- (d) Prevent separation in beverages

(1 mark)

Q28 L-Cystein is _____

- (a) Amino acid that might be used in tortillas
- (b) Amino acid from cell wall of plant
- (c) Enzyme from bird feathers
- (d) Enzyme from bacteria

(1 mark)

Q29 Determine the **CORRECT** class of enzyme and its function.

- (a) Oxidoreductases - catalyze the joining of molecules to form larger molecules
- (b) Ligases - catalyze the transfer of groups on the same molecules
- (c) Transferases - catalyze the reaction of a chemical with water
- (d) Lyases - catalyze reactions producing double bonds

(1 mark)

Q30 The following are the correct halal control points in enzymes production from animal organs, **EXCEPT**

- (a) The organs should be from halal-slaughtered animals
- (b) The ingredients used to adjust the enzyme strength
- (c) The chemicals used for releasing enzyme
- (d) The media used for fermentation process

(1 mark)

Q31 According to Food Regulation 1985, the following uses of enzymes should be labelled.

- (a) Enzymes used in protein hydrolysis
- (b) Enzymes used in glucose production
- (c) Enzymes used in fruit juice extraction

- (d) Enzymes used to remove oxygen from bottled drinks

(1 mark)

Q32 Choose the **INCORRECT** halal control points (HCPs) for enzyme production in a conventional fermentation process.

- (a) HCP 1 : Raw materials for growth media
(b) HCP 2 : Preparation of tissues for extraction
(c) HCP 3 : Antifoam used
(d) HCP 4 : Origin of cultures

(1 mark)

Q33 This product can be considered **EXEMPT** from halal food regulations.

- (a) Insulin for diabetes
(b) Strawberry chocolate shake
(c) Bubble tea with pandan flavour
(d) Butterscotch cake

(1 mark)

Q34 Choose the correct function of the ingredients to watch in nutritional food supplements.

- (a) Tweens – used to encapsulate and protect colour
(b) Glycerine – used in the manufacture of capsules
(c) Stearates – used for coating and polishing tablets
(d) β -Carotene – used as free-flow agents in powders

(1 mark)

Q35 The following statements are true **EXCEPT**,

- (a) A mixture of propylene glycol and water could be used as a solvent in liquid supplements
(b) One-piece softgel and hardgel capsules used to be made exclusively from gelatin
(c) Zein can be used as preservative in liquid supplements
(d) Polysorbate could be used to coat the tablet

(1 mark)

Q36 Orange juice extracted by microbial enzymes can be considered as ____

- (a) Makrooh

- (b) Doubtful
- (c) Haram
- (d) Halal

(1 mark)

Q37 Fish and seafood can be divided into four categories of halal status. Determine the category of lobsters.

- (a) Category one
- (b) Category two
- (c) Category three
- (d) Category four

(1 mark)

Q38 Define kosher.

- (a) Permitted food of Malays
- (b) Permitted food of Jewish
- (c) Permitted food of Muslims
- (d) Permitted food for Hindus

(1 mark)

Q39 Analyse the following food products and determine which will be accepted without doubt by Rabbis and Islamic scholars.

- (a) Cheezy meatball from halal/kosher slaughtered beef
- (b) Tomatoes from plant-to-plant transgenic
- (c) Marshmallow produce from fish gelatin
- (d) Soft drinks added with 0.05% alcohol

(1 mark)

Q40 Choose food/beverage below which classified as kosher.

- (a) Sirloin steak
- (b) Ostrich meat
- (c) Carlsberg
- (d) Mussel

(1 mark)

Q41 Analyse the statements below and determine the **CORRECT** answer regarding kosher food.

- (a) Grasshopper is not kosher because it falls in the category of insects
- (b) Stingray is not kosher since it has a non-removable scale
- (c) Cookies using color extracted from cochineal is kosher
- (d) All bovine gelatin is accepted as kosher

(1 mark)

Q42 The following statements are correct, **EXCEPT**

- (a) According to National Fatwa, carbonated drinks which are produced by following the process of beer production, and contain 0.01% alcohol in final products are haram
- (b) In Malaysia, rose flavour extracted using ethanol and still contain 0.5% in the final product after evaporation process is considered as halal
- (c) According to FDA, vanilla essence contains 50% of alcohol can be considered as natural flavored
- (d) Teriyaki sauce contains 1.5% of alcohol used as stabilizer is halal

(1 mark)

Q43 Choose the organizations below which have the authority to conduct the Malaysia Halal certification.

- (I) JAKIM
 - (II) MAIN
 - (III) HDC
 - (IV) JAIN
- (a) I and II
 - (b) I, II and III
 - (c) I, II and IV
 - (d) II, III and IV

(1 mark)

Q44 Determine the **CORRECT** scheme of Manual Procedure Malaysia Halal Certification (Domestic) 2020.

- (I) Pharmaceutical Product
- (II) Food and Beverage Product
- (III) Food Premise

(IV) Animal Feed

- (a) I and II
- (b) I, II and III
- (c) I, II and IV
- (d) II, III and IV

(1 mark)

Q45 The following products are eligible for the application of Malaysia Halal certification, **EXCEPT**

- (a) Water filter
- (b) Vitamin C
- (c) Cheese
- (d) Okra

(1 mark)

Q46 Applicant of Malaysia Halal certification shall

- (I) Register with the Companies Commission of Malaysia
- (II) Hold a business license from the Local Authorities
- (III) Produce only halal products
- (IV) Apply for all types of products which are produced by the premise

- (a) I and II
- (b) I, II and III
- (c) I, III and IV
- (d) I, II, III and IV

(1 mark)

Q47 The application system of Malaysia Halal certification from JAKIM's website is known as__

- (a) Myhalal
- (b) MyJAINJ
- (c) MyJAKIM
- (d) MyeHalal

(1 mark)

Q48 Choose the **CORRECT** requirements content of information for packaging and labelling of halal certification products.

- (I) Name of products
 - (II) Malaysia Halal Logo
 - (III) Net content in SI unit
 - (IV) List of ingredients
- (a) I and II
 - (b) I, II and III
 - (c) I, III and IV
 - (d) I, II, III and IV

(1 mark)

Q49 PH Enterprise is a cookies manufacturing company which has an annual turnover less than RM300,000.00 and having five workers. Determine from the following, the elements might be the reasons that the halal certificate application will be rejected.

- (I) One Muslim Account Assistant has been appointed for two years before the application
 - (II) One Muslim Halal Supervisor has been appointed for two months before the application
 - (III) One non-Muslim Quality Assurance has been appointed for one year before the application
 - (IV) Two non-Muslim processing workers has been appointed for one year before the application
- (a) I and II
 - (b) II and III
 - (c) III and IV
 - (d) II and IV

(1 mark)

Q50 Analyse the following companies and choose the company that should develop Halal Assurance System before halal application is applied.

- (a) Sri Vista Poultry slaughterhouse which has daily production of 2000 birds
- (b) Pagoh Jaya Enterprise which has an annual turnover of RM12,000,000.00
- (c) Ammar Catering which has an annual turnover RM600,000.00
- (d) Muar Restaurant which has an annual turnover RM400,000.00

(1 mark)

Q51 Alvin is the owner of beverage company. His company bank statement for the year 2023 is RM20,000,000.00. His company has 50 Muslim staff and two Halal Executives. He plans to apply for Halal certification for his company. Determine the category of Alvin's company according to Manual Procedure Malaysia Halal Certification (Domestic) 2020.

- (a) Home-based
- (b) Medium
- (c) Micro
- (d) Small

(1 mark)

Q52 PR Fruit Sdn Bhd is a company that sells tropical fruit, had applied the Halal certification and submitted all the related documents through the link www.halal.gov.my. However, after the visit, they received the response that the company is not eligible to get halal certification. Determine the reason of the rejection of the application.

- (a) The company fail to provide the license from National Pharmaceutical Regulatory Agency
- (b) The company did not attach the approval letter from the veterinary department
- (c) The company has been operated less than 1 year
- (d) The company only sell the fresh fruit

(1 mark)

Q53 ABU Sdn Bhd is small-medium company that manufactures beef ball products that plans to apply halal certification. The following are the general requirements of the halal certification application, **EXCEPT**

- (a) The halal certification of halal meat used in the products
- (b) The company should apply halal certification for all products
- (c) The company should hire at least one Halal Executive
- (d) The utensils used should be free from najis

(1 mark)

Q54 The following are categorized as major offences, **EXCEPT**

- (a) Change supplier which does not obtain halal certification from JAKIM/MAIN/JAIN

- (b) Changes of raw material manufactures which has halal certification from JAKIM/MAIN/JAIN
- (c) Using Malaysia Halal logo on products which are not certifies
- (d) Use and display of expired Halal certificate

(1 mark)

Q55 The following are general requirements for workers' basic amenities and welfare, **EXCEPT**

- (a) Rest room
- (b) Changing room
- (c) Suitable praying area for Muslim workers
- (d) Permission to perform daily fardhu and Friday prayers

(1 mark)

Q56 The bank statement 2022 of Tanjung Enterprise company exhibited RM200,000.00. The Malaysia Halal Management System file for Halal certification application should consists of all the following elements, **EXCEPT**

- (a) Traceability
- (b) Halal Policy
- (c) Raw material control
- (d) Internal Halal Committee

(1 mark)

Q57 The following are the procedure for raw material control, **EXCEPT**

- (a) Does not store raw material which halal status is doubtful
- (b) The master list of raw material must be prepared in the form of hard copy
- (c) Changes of raw material should be declared with the halal certification authority organization
- (d) The master list of raw material should be able to be referred during Malaysia Halal certification auditor

(1 mark)

Q58 RK Corporation is a multinational bakery company which has been operating in Malaysia for about ten years and Halal certified. During the inspection, the Halal inspection Officer found that the workers at the processing area were not vaccinated against typhoid. Determine the action that the inspection Officer might take.

- (a) Malaysia Halal Certificate of RK Corporation will be suspended
- (b) RK Corporation will be given warning within 14 days to make corrections

- (c) The Malaysia Halal Certificate of RK Corporation will be revoked immediately
- (d) Malaysia Halal Certification monitoring notice will be issued to RK Corporation

(1 mark)

Q59 PH Sdn Bhd is a snack manufacturing company which has been certified with the Malaysia Halal certification scheme. However, during the scheduled inspection, they are found guilty by the inspection officer under **MAJOR** offence which can lead to suspension of the Halal Certificate. Analyse and determine the following technical offences that might be found by the officer during the inspection processes.

- (I) Changed supplier which does not obtain Malaysia Halal Certificate
 - (II) Using haram material after receiving Malaysia Halal Certificate
 - (III) Alter the information on the Malaysia Halal Certificate
 - (IV) Premise cleanliness
- (a) I and II
 - (b) I and III
 - (c) II and IV
 - (d) III and IV

(1 mark)

Q60 Determine the country that produced the halal international logo in **Figure Q60.1** which is recognized by JAKIM.

Figure Q60.1. Halal Logo



- (a) Brunei
- (b) China
- (c) Canada
- (d) Bangladesh

(1 mark)

- END OF QUESTIONS -