

Kafrelsheikh University, Institute of Nanoscience and Nanotechnology
Faculty of fisheries and aquaculture science Course of Nanotechnology
Applications

The Final Exam 2021/2022

Time of exam: 2 hours.

امام الوائلي

Q1. Write briefly about advantages and disadvantages of the following parts ?

- 1- Fenton's reaction.
- 2- Titanium oxides used in nanocatalyst.

Q 2: Correct the false and then write explanation for all of the below sentences?

1. In the final solution of nano membrane materials, the pollutants will be precipitated in filtrated solution .
2. Single carbon nanotubes have wide applications
3. There are no any factors affecting the adsorption process.
4. Nanotechnology leads to decrease surface area of reaction.

Q 3: Choose the correct answer for the following sentences?

1. Fucoidan doped gold nanoparticles caused
1-Inhibition for the growth of *Aeromonas Hydrophila*. 2-Improvement for the growth of *Tilapia*. 3-Both of all. 4- Neither of all.
- 2.The infection of *Aeromonas salmonicida* causes.....
1- Ulcerations. 2- Ocular non ulceration. 3- Nasal ulceration. 4-Neither of all
3. Carbon nanotubes can be used as
1-Nano-adsorbent materials. 2-Nano-membrane materials. 3-Nano-modified materials.
4- Both of all.

Q5. Write simple description about characterizations of nanotechnology?

Good Luck

المعزات كمال

Kafrelsheikh University
Faculty of Fishers and
aquaculture sciences
Aquaculture Division



Final exam
2021/2022

3rd level
Time: 2 h
50 marks

Subject: Climate changes & Fish Adaptation

Exam committee: prof. Dr. M. Abo Waly, Prof. Dr. A. El-Henawy and Dr. F. Moghanm

Answer the following questions:

Part (A) 30 marks

- 1-Define the climate change and illustrate the causes of it?
- 2-Discus the climate change and adaptation in fishier and aquaculture?
- 3-Discus the greenhouse gases contribution in fishier?
- 4-Compare between adaptation and mitigation?
- 5-What's the mean of: blue carbon - global worming - maladaptation - mangrove restoration - learn from past.

Part (B) 20 marks

Explain the following:-

- 1- General applications of RS
- 2- The Remote Sensing Process
- 3- Sensors platform's for remote sensing
- 4- Image Analysis Scattering
- 5- Remote sensing and climate change example products
- 6- Water reservoirs
- 7- NOAA AVHRR Satellite and climate change

With best wishes

جامعة كفر الشيخ
١١٠١٣٤

امتحان الفصل الدراسي الخريفي

المادة: تسويق وتجارة الأسماك

المستوى : الثالث

الزمن : ساعتين

اليوم: ٢٦ / ١ / ٢٠٢٢

للعام الجامعي ٢٠٢٢/٢٠٢١



كلية علوم الثروة السمكية والمصايد
برنامج: تصنيع الأسماك والبيوتكنولوجيا

لجنة الممتحنين والمصححين:- أ.د/ رشدي شوقي العدوي أ.د/ فتحية رضوان سالم أ.د/ محمد فوزي الصفتي

السؤال الاول :

(أ) ما المقصود بكلا من :

1. Diversification .
2. Marketing integration موضحاً أنواعه.
3. التسويق موضحاً مفاهيمه الأساسية.
4. الأسواق المستهدفة.

(ب) وضح بالرسم مع الشرح وكتابة العلاقات الرياضية إن وجد الآتي:

1. أثر التكنولوجيا على منحنى الانتاج الكلي والنتاج الحدى والنتاج المتوسط.
2. تصنيف المديرين حسب تقبلهم للمخاطرة.
3. حالات الطلب المختلفة وفقاً لمرونة الطلب السعرية.

السؤال الثاني :-

(أ) قارن بين كلا مما يلي:

1. العوامل الداخلية لكلاً من البورصة وميناء البرلس.
2. سوق المنافسة الكاملة وسوق الاحتكار التام (مع بيان حاله التوازن لكل منهما)

(ب) وضح كلا مما يلي :

1. وضح المفهوم والأهمية التطبيقية وطريقة القياس للمرونة الطلبية السعرية؟
2. وضح التقسيمات المختلفة للبورصات مبيناً الأسس والمبادئ التي قامت عليها؟

السؤال الثالث:-

(أ) الجدول التالي يوضح سعر السبيط والكمية المطلوبة من الجميري:

سعر السبيط (جنيه/كجم)	٦٠	٧٠	٨٠	٩٠	١٠٠
الكمية المطلوبة من الجميري	١٢٠	١٠٠	٨٠	٦٠	٤٠

والمطلوب: احسب المرونة الطلبية من الجدول، موضحاً نوع السلعة.

مع اطيب التمنيات بالنجاح والتفوق

عد

عد

تعليم وزارة الزراعة

KAFRELSHEIKH UNIVERSITY
FACULTY OF AQUATIC AND
FISHERIES SCIENCES

Course Name: Fish Culture Systems
Level: The Third Year of B.Sc.
(Aquaculture Program)



جامعة كفر الشيخ
كلية علوم الثروة السمكية
والمصايد

Date: 23rd January 2022
Allowed Time: 2 hours

Final Exam of the Academic Year: 2021-2022

Answer the following questions: (50 Degrees)

1- The First Question: (15 Degrees)

A. Choose the correct answer:

1. The optimal operating temperature of the UV lamp must be	(10°C OR near 40°C OR 80°C).
2. The quantity of ammonia excreted from 1 kg fish feed is	(less than 0.025 kg OR 0.025-0.055 kg OR greater than 0.5 kg).
3. The best wavelength of UV for sterilization in RAS system is	(254nm OR 450 nm OR 550 nm)
4. To determine the safe limit of ammonia under short-term or long-term exposure time, multiply the LC ₅₀ by	(10% OR 20% OR 30%).
5. For maximum efficiency of foam fractionation (in RAS system), the ideal bubble diameter is	(5.0mm OR 0.8 mm OR 15.0 mm)
6. For the maximum growth rate, ozone concentration should be	(0.025 OR 0.013 OR 0.055 kg O ₃ per kg feed).
7. The ideal level of pH in rearing water of fish farms is	(5-6 OR 7-8 OR 9-10).

B. Put (✓) in front of the right sentence and (×) in front of the wrong sentence.

1. The efficiency of fine-bubble aeration is 10 to 20 times higher than that of the coarse-bubble.	(-----)
2. The recommended dose of UV for RAS recirculated water is 30 mWsec /cm ² .	(-----)
3. Ozone sterilization system is more safety than ultraviolet (UV) sterilization system	(-----)
4. Ozone level around workers should remain below 0.1 ppm	(-----)
5. The solubility of oxygen increases as water temperature increase.	(-----)
6. Toxicity of ammonia increases as temperature and pH increases	(-----)
7. The toxicity of free ammonia is less than ammonium form	(-----)
8. To achieve the best water quality, ozone concentration should be 0.025 and 0.045 kg O ₃ per kg feed.	(-----)

2. The Second Question: (15 Degrees)

Write on the following points:

A. Classification of aquaculture systems according to (1) stocking density, (2) Fish Holding facility.	(4.0 degrees)
B. In what ways could artificial aeration improve water quality in fish farms?	(4.0 Degrees)
C. What are the main factors affecting the oxygen solubility in pond water?	(4.0 Degrees)
D. How does ozone react to organic pollutants?	(3.0 Degrees)

3. The Third Question: (20 Degrees)

Answer the following points:

A. Is there a specific design for RAS fish production system that you can describe or draw?	(5.0 Degrees)
B. What kinds of biological filters are utilized in fish farms?	(3.0 Degrees)
C. What's the connection between feed quantity and oxygen, CO ₂ , waste solids, alkalinity, and ammonia? Draw or write	(4.0 Degrees)
D. How can the problem of gas supersaturation in aquaculture be solved?	(2.0 Degrees)
E. Write in details how the concentration of ammonia in your fish ponds can be reduced (controlled) in a fast, safe, and cost-effective manner if you are a fish farm manager?	(6.0 Degrees)

*With best wishes,
Dr. Mohamed Abdel-Rahim*



Answer the following questions

1st Question: (20 degrees)

A) Put a mark of true (✓) or false (X) in front of the following statements:

(10 degrees)

- 1) Air pollutants can be classified according to chemical composition as inorganic air pollutants.
- 2) Major regions of the atmosphere include Troposphere, stratosphere, mesosphere & thermosphere.
- 3) Gas liquid chromatography (GLC) is a separation and analysis technique.
- 4) Environmental Chemistry involves the study of the effects that chemicals have on the air only.
- 5) Tropospheric ozone is formed in a complex series of photochemical reactions driven by ultraviolet (UV) solar radiation.
- 6) Ozone is known by its oxidizing power, O₃ can oxidize all metals except gold and platinum.
- 7) There are three ways that nitrogen gets "fixed" include industrial, atmospheric and biological.
- 8) Green Chemistry aimed to use sustainable resources and prevent pollution at the molecular level.
- 9) Types of plastic pollution include megaplastics, primary and secondary macroplastics.
- 10) Mechanisms of Acute Toxicity as Cholinesterase Inhibition, Narcosis, Mutagenesis.

B) Identify this scientific terms (Define the following scientific terms) (10 degrees)

Bioconcentration- Mineralization- PM10-Soot-Photochemical Smog- ADME-Carcinogenesis- Xenobiotic metabolism- Greenhouse effects-Bioremediation

2nd Question: (15 degrees)

A) Complete the following statements with their appropriateness: (10 degrees)

- 1) Green Chemistry is Environmental chemistry is....., sulphur compounds as.....
- 2) The main aims of Environmental Chemistry are to.....
- 3) Troposphere, this layer human andlive, The permanent gases include.....
- 4) Methane sources as.....& Coal Combustion contain air pollutants as.....
- 5) Lithosphere include.....& Nitrogen Fixation processes by Bacteria as.....
- 6) Carbon is stored on our planet in.....
- 7) Photosynthesis in which algae, higher plants equation is....., Biodegradation of organic matter such as....., Biosphere refer to....., VOC is....., and its effects as.....
- 8) The four most dangerous indoor air pollutants are.....& POPs refer to.....as.....



Examiners committee: Dr. Mohamed Abdel Razek Saleh, Dr. Tamer Ismail & Dr. Moustafa Samir SaadAllah

9) The main causes of ozone depletion are.....&The accumulation of plastic and products made of plastic in the environment lead to

10) Harmful effects of plastic wastes as.....& Chronic toxicity is

B) Write short notes on: (5 degrees)

1-Acid rain (causes- reactions- hazard effects)

2- PAHs (Sources,examples, adverse effects, removal methods)

3-What are your suggestions to solve the problem of plastic pollution?

4-Water pollution (sources-water treatment methods for suspensid solid, dissolved solids and dissolved organic compounds)

5- Nitrogen cycle

3rd question: (20 degrees)

A) Show the complete installation data for the following devices and its application:

(4 degrees)

UV- Vis Spectrometry- GLC - HPLC- Ion Chromatography

B) Compare the following scientific terms (show the differences between) (4 degrees)

Environmentalist & Ecology- Environmental Toxicology& Ecotoxicology- LC₅₀& LD₅₀- NOAEL& LOAEL- Rt &Rv- Column & Detectors in GLC or HPLC

C) What is the mission and concepts of Environmental chemistry? (4 degrees)

D) Show the processes of ozone depletion (chemical reaction). (4 degrees)

E) What is the greenhouse effects, causes, toxic effects on environment& and show its role on climate change. (4 degrees)

Examiner's signature

Tamer Madeh

Moustafa Samir

Questions ended with best wishes for success and good luck



Answer the following questions:

1- In Table compare between: (15 degrees 5 of each)

- A- Cleaning and Sanitizing
- B- Irradiation of food and Biopreservation
- C- Larger fish and Lean fish spoil

2- Fill in the spaces:- (10 degrees 0,5 of each)

- A- Forms of food poisoning 1-.....2-.....3-.....
- B- Prevention of food poisoning by 1-.....2-.....3-.....
- C- Bacillus cereus produces two fairly distinct types of illness 1-.....2-.....
- D- Hazards from E. coli can be prevented by 1-.....2-.....3-.....4-.....
- E- The time a fish the rigor mortis pass and depends on the following factors 1-.....2-.....3-.....4-.....5-.....
- F- Three rules should be observed to prevent rusting during storage 1-.....2-.....3-.....

3-Choose the correct answer: (15 degrees 1 of each)

- 1) Plesiomonas shigelloides It has been isolated from:
A- sea water B- fresh water fish C- Dust and soil
- 2) The principles of Fish storage and Preservation are:
A-Inhibition of microbial growth B- Increasing of enzyme C- Removing of chemical chan
- 3) Conditions which affect the microbial growth:
A-Food itself B-The sanitary condition of food processing
C- presence of potential pathogens
- 4) Their presence Indicator Organisms indicates indicate:
A-Resedues and conjaminanat B- presence of chemical cotamination
C- potential spoilage of food
- 5) Pickling is a method of preserving food in an edible anti-microbial liquid by:
A-Physical pickling B-Fermentation pickling A-Liquide pickling
- 6) The number and diversity of microbes associated with fish depend on:-
A-The geographical location B-The temperature C- The method of isolation
- 7) One of the following factors contribute to spoilage of fish:
A-Low moisture content B- Low fat content C- high protein content
- 8) Chilling is an effective way of reducing spoilage if done:
A- At ambient temperature B- Under unhygienic handling and time.
C- Quickly and handled carefully & hygienically.



- 9) One from the following the most important factors in physical or chemical deterioration of Canned fishery products:
A- Perforation and corrosion of tin plate B- Foreign material C- Suitable products.
- 10) One from the following act as the factors influence the effectiveness of antimicrobial treatment:
A- Type of Microbes B- Type of products C- Environmental influences
- 11) Specific Spoilage Photobacterium phosphoreum characterized by:
A- Production of histamine even under refrigeration conditions
B- Production of histidine even under refrigeration conditions
C- Production of antihistamine even under refrigeration conditions
- 12) Change in physical properties of fish muscle during salting:
A- amount of water and pH of fish muscle B- amount of the fish muscle
C- Water holding capacity
- 13) Factors affecting shelf life of fish:
A- Method of harvest treatment B- Pre harvest treatment C- Post harvest treatment
- 14) Belly bursting is enzymatic spoilage of fish especially during of:
A- a period of high food intake B- a period of low food intake
C- a period of unfood intake
- 15) Relative humidity (RH) of the storage environment is:
A- An important factor for the growth of microorganisms at the food surfaces.
B- Not important factor for the growth of microorganisms at the food surfaces
C- Not requires less water vapor to attain high relative humidity at low temperatures

4- Choose the correct answer (True or False) and give reasons: (10 degrees 1 of each)

- 1) Specific Spoilage Pseudomonas spp. organisms characterized by 'fruity', 'oniony' and 'faecal' odours, (True or False)
- 2) Glycolysis the first enzymatic change in fish muscle is gradual hydrolysis of glycogen to lactic acid (True or False)
- 3) Enterococci are better indicator of sanitary quality than E.coli especially in heat treated, frozen or dried foods (True or False)
- 4) In Sliming spoilage of salted fish The surface of the fish is un acquires a slippery coating of slime (True or False)
- 5) In Reddening spoilage of salted fish The fish takes on a red coloring (True or False)
- 6) Marine fish are more prone to spoilage during chilling (True or False)
- 7) Sh. Putrefaciens growth can not be used as indicators of spoilage of fish (True or False)
- 8) Type of ice is a general factors affecting the chilling process (True or False)
- 9) Fresh fish spoilage is not affected by physical damage (True or False)
- 10) Pickling is a method of not used for preserving food. (True or False)

GOOD LUCK

Prof. Dr. / Ibrahim Ibrahim Alhawary



بيولوجيا الاسماك
Answer the following questions:

1. First question

(30 degrees)

- a- What is the effect of Agricultural and Industrial Pollution on Africa's aquatic ecosystems
- b- Explain the Physiological adaptations of fish to low oxygen levels
- c- Mention Pressures acting on Aquatic Biodiversity and explain one in details.

2. Second question

(20 degrees)

Mark right or wrong with correction

- 1- The major pathological-anatomic changes in winter-kill include pale skin, congestion and small haemorrhages ().
- 2- Hyperoxia is the state of water when it holds a very high amount of oxygen ().
- 3- Sustained swimming is type of locomotion used for escaping predators and chasing a prey or for swimming against currents of water ()
- 4- This sixth sense in Sharks is made possible thanks to electro-receptive organs called Ampullae of Lorenzini ()
- 5- Incidental food item is the food which the fish consumes in the absence of its basic food ()
- 6- Sea lampreys can be controlled by using chlorine, filters, or mechanically removing mussels from the surface to which they are attached ()
- 7- an endangered species is any species that is in danger of extinction throughout all or a significant part of its range including pest insects ().
- 8- The major human activity that endanger wildlife is habitat destruction and fragmentation ().
- 9- Ghost fishing is a result from fishing nets that have been left or lost in the ocean by fishermen ()
- 10- Poisonous pollutants affects the respiratory processes and secretion of protective mucus in fish ()

تقديره الرفاهية بالبحر

Kafr El-Sheikh University
Faculty of Aquatic and Fisheries Sciences
Department of Aquaculture

Subject: Aquatic Larval Feeding
Time: 2 hours
Date: 16/1/2022
Level: Three



Final answer exam during academic year 2021/2022

Please answer the following questions: (50 marks).

❖ First question: (15 marks):

- 1- Please state the advantages and the disadvantages of organic fertilizer and problem caused by excessive fertilization: (10 degrees).
- 2- State types of Natural food. (2.5 degrees).
- 3- Give reasons why there are positive effects of microalgae in green water systems. (State 3 at least) (2.5 degrees).

❖ Second question : Complete the following sentences (23marks).

- 4- Period from yolk-sac larvae to exogenously feeding larvae can lead to high mortality in a short period of time so called (.....).
- 5- Lordosis is (.....).
- 6- Defect in pigmentation happens mainly in fish.
- 7- High salinity during early ontogeny lead to swim bladder inflation.
- 8- In fish larva total requirement in protein generally than in juveniles.
- 9- Young larvae require high energy, around Kj/kg of diet.
- 10- phospholipid appeared to prevent
- 11- Optimal level of total HUFA, mainly EPA and DHA, around% of dry weight of larvae diet.
- 12- are known to modulate the transcription and expression of more than 500 genes.
- 13- The optimal level of vitamin A was determined at ... mg all-trans retinol/kg diet dry matter.
- 14- The is a target organ of vitamin (D3).
- 15- In sea bass larvae Pepsin activity is detected from days.
- 16- In fish larva the second step in digestion is achieved by enzymes secreted by
- 17- Trypsin and chymotrypsin are affected by the size of
- 18- Higher amylase mRNA levels are found in larvae than in larvae.
- 19- In marine fish larvae, the best larval growth was observed with% protein.
- 20- Best results were obtained with the larva diet containing% lipid.
- 21- Pelleted diets are suitable for most marine fish larvae.
- 22- The main phospholipid source used in experiments is
- 23- The are the basis of the natural feeding food for the larvae of mullet.
- 24- Marine fish larvae fed of two types of feed: and
- 25- The most important live feed for marine fish larvae are
- 26- Micro diet granules ranging in diameter from microns.

Fourth question: Explained by only drawing with writing data (12 marks).

- A- What are different types of malformation in fish larvae?
- B- Factors affected on digestive enzymes levels in fish larva?
- C- The reasons for the difficulty of maintaining fish larvae?
- D- Rotifers have many advantages for Artemia (Explain)?

With our best wishes
Prof. Dr. Malik M. Khalafalla
Dr. Asmaa El-Nokrashy



Answer the following questions:

1- In Table compare between:

(15 degrees 5 of each)

- A- Energy Yielding Foods (EYF) and Body Building Foods (BBF)
- B- Digestible and indigestible carbohydrates (CHO)
- C- Primary and Secondary Structure of a protein

2- Complete the following:

(5 degrees 0,5 of each)

- 1) The only rich source ofcommonly included in the human diet is fish.
- 2) Marine nutraceuticals is
- 3) Oleic acid is the main monounsaturated fat in our diets and this is sometimes called.....
- 4)is the limiting amino acid in wheat protein.
- 5)is a molecule that slows the rate of oxidation of the oxidisable material.
- 6) Its spontaneous change of this kind in the specific rotation of a solution of an optically active compound is called
- 7)are droplets of nearly pure triglycerides, coated by a very thin layer of protein.
- 8)are polysaccharides of natural origin , capable of increasing the viscosity of solution even at very low concentration.
- 9) Low levels of DHA have been associated with
- 10), which is involved in the synthesis of glucose molecules from simple other compounds such as fatty acid or amino acid.

3-Choose the correct answer:

(10 degrees 1 of each)

1- Health Benefits of Dietary Fiber:

- A- helping to prevent constipation
- B- helping to prevent diarehea
- C- helping to prevent fever

2- Caramelization is a browning reaction formed by:

- A-Heating carbohydrates like sucrose or reducing sugars.
- B-Heating food like sugars
- C-Heating protein like amino acide

3- Raw Materials are a Factors affecting food composition depend upon:

- A-The conditions of animal or plant crop
- B- Types of the farm harvesting of the plants on the feeding
- C-Fishing season for fish and marine invertebrates.

4- Fish is a good food for a low fat diet and many types of fish do not contain:

- A- Any type of saturated fat.
- B- Any type of unsaturated fat.
- C-Any type of saturated and unsaturated fat.

Kafr El-Sheikh University
Faculty of Aquatic and Fisheries Sciences
Subject: Fishing Gear Technology
Aquaculture Department
Level : 3

Dr. El Azab Badr



Time allowed: 2 hours

Final exam during academic year 2021 – 2022

Exam board

Answer the following questions :

(50 marks)

1- A-Define the following terms

(20 marks)

- 1)- Chumming 2)- Transducer angle 3)- 3Tex
4)- Mesh bar 5)- Target strength 6)- Fishing

B- Some precaution should be taken to avoid gilling and enmeshing fish in the bunt of purse seine net. Explain how ?

C- Arrange the following hook sizes in a descending order
15 , 20 , 19/0, 9/0 , 5 , 15/0 , 10 , 2 , and 20/0

2- A- Explain how fish can be caught by gill net fishing method. (15 marks)

B- Calculate the vertical hanging ratio if one thousand mesh of gill net (150 mm mesh size) were hanged on a line of 100 m total length. ($\sqrt{0.564} = 0.75$) *

3- Match between column "A" and its suitable sentence in column "B".

Column A

Column B

(15 marks)

- | | |
|----------------|---|
| 1) Codend | 1) Whaling |
| 2) Harpoon | 2) long line construction unit |
| 3) Streamers | 3) a vertical fish detection and depth device |
| 4) Sonar | 4) help open the trawl net wings horizontally |
| 5) Lambara net | 5) trammel end where fish are collected |
| 6) Basket | 6) may be used for fish optical attraction |
| 7) Light | 7) a horizontal fish detection device |
| 8) Trawl doors | 8) doesn't have purse wire |
| 9) klondyker | 9) used for bird scaring |
| 10) Snood wire | 10) corresponds the bunt in purse seine |
| | 11) preserve the hook from being cut due to fish bite |
| | 12) fish meal and oil production mother ship |

With my best wishes

Dr. El Azab Badr



امتحان

Please be attentive to the number of pages in the exam, as the exam pages will be on both sides of the paper.

Choose the best answer (a, b, c, or d), (Put your answer in a table):

(20 Marks)

- 1- is the third stage of group development
a) performing b) adjourning c) storming d) norming
- 2- is a process through which an organization ensures that it always has the proper number of employees with the appropriate skills in the right jobs at the right time to achieve the organization's objectives
a) Staffing b) Job analysis c) Recruiting d) HR planning
- 3- Job specification include
a) skills b) duties c) abilities d) a & c
- 4- is one of the informational roles of the manager
a) Spokesperson b) Monitor c) Disseminator d) a & b & c
- 5- are the job-specific knowledge needed to proficiency perform work tasks
a) Human skills b) Technical skills c) Conceptual skills d) a & b & c
- 6- means doing things right.
a) Creativity b) efficiency c) effectiveness d) proficiency
- 7- Planning is primary managerial activity that involves establishing an overall for achieving organization's goals
a) policy b) strategy c) aim d) plan
- 8- Plans that are clearly defined and leave no room for interpretation are called plans
a) strategic b) specific c) standing d) directional
- 9- Is the concept that refers to a person should have one boss.
a) Unity of Command b) Chain of Command c) standardization d) Unity of Responsibility
- 10- means increasing the decision-making authority (power) of employees.
a) Decentralization b) Empowerment c) Centralization d) None of them
- 11- HR planning is the process by which managers ensure that they have the right.....
a) people b) skills c) needs d) expertise
- 12- is the education that introduces a new employee to his or her job and the organization.
a) orientation b) training c) screening d) selection
- 13- there are types of employees' training
a) 6 b) 2 c) 3 d) 5
- 14- Great business plans, products and services cannot easily be copied by your competitors as well as great personnel cannot
A) True b) False
- 15- The goal of organizational behaviour is to Employees' behaviour
a) explain b) a & b & c c) understand d) influence
- 16- Significance of variation between actual performance and standards is determined by of variation
a) acceptable range b) a & b & c c) direction d) size
- 17- control is the control that prevents anticipated problems before actual occurrences of the problem
a) Feedforward b) Concurrent c) Feedback d) simultaneous
- 18- Managers have perspectives on making decisions
a) 3 b) 4 c) 5 d) 6

19- refers to the degree to which jobs within the organization are standardized

- a) Formalization b) centerlization c) standardization d)departmentlization

20- The controlling function consist of process

- a) 3 b) 4 c) 5 d)6

Second Question:

Mark the following statements as (✓) or (×), (Put your answer in a table): (10 Marks)

1. Decentralization is preferable when organization is facing a crisis or the risk of company failure.
2. Whereas effectiveness is concerned with the means of getting things done, efficiency is concerned with the ends
3. Human skills are most important for lower-level managers than middle managers
4. Organizations are not self-contained and, therefore, must adapt to changes in the external environment.
5. A problem becomes a problem when a manager becomes aware of it.
6. Formal plans cannot replace intuition and creativity
7. Sophistication of the organization's information system is one of the factors that affect span of control.
8. Job Specification is a written statement of the minimum qualifications that a person must possess to perform a given job successfully.
9. Managing change is an integral part of every manager's job.
10. top managers are responsible for making decisions that affect the entire organization

Third Question:

(30 Marks)

State without explanation:

- 1- Decision making process (8 stages)
- 2- The 4 purposes of planning
- 3- Why is HRM important? (3 reasons)

Good luck

Dr. Reda Abdelkareem

