

BOWEN UNIVERSITY IWO, NIGERIA



Screening Exercise

Time Allowed: 1^{1/2} Hours

INSTRUCTIONS

Please read the following instructions very carefully:

1. This **QUESTION BOOKLET** is a property of **BOWEN UNIVERSITY**.
2. Candidates are not allowed to take away or write on the **QUESTION BOOKLET**.
3. A separate sheet is provided for answering all questions. Candidates are to follow very strictly the **FORM INSTRUCTIONS** on the Answer Sheet.
4. Only one answer sheet is provided for each candidate.
5. Candidate must write his/her **FULL NAMES** (*Surname first followed by other names*), **FORM NUMBER, FIRST CHOICE COURSE** and the **DATE** on the answer sheet. (Please note that the Form Number is indicated on the acknowledgement card / on-line generated slip.)
6. Use an **HB Pencil** to shade your answer sheet. Ensure that you don't shade more than one answer per question to avoid nullification.
7. The use of calculators or any other electronic devices is **NOT ALLOWED**.
8. **English Language** and **General Knowledge** are compulsory for all candidates.
9. Candidates are to select **three subjects** relevant to their course of study as indicated below, **starting with compulsory subjects in the order in which they are listed**.
 - (a) **Accounting, Banking and Finance, Business Administration, Economics**
 - (i) **Compulsory:** Economics (02) and Mathematics (07)
 - (ii) **Any one of:** Commerce (03), Accounting (04), Government (05) Geography (06)
 - (b) **Medicine & Surgery, Anatomy, Physiology**
 - (i) **Compulsory:** Chemistry (09) and Biology (12)
 - (ii) **Any one of:** Physics (08) and Mathematics (07)
 - (c) **Sociology**
 - (i) **Compulsory:** Economics (02)
 - (ii) **Any two of:** Commerce (03) Government (05) or Geography (06)
 - (d) **Mass Communication, English, Communication Arts, Theatre Arts**
 - (i) **Compulsory:** Literature-in-English (01)
 - (ii) **Any two of:** Economics (02) Government (05) or Geography (06)
 - (e) **Political Science**
 - (i) **Compulsory:** Government (05)
 - (ii) **Any two of:** Economics (02) Geography (06) or Commerce (03)
 - (f) **Agriculture, Biological Sciences (Plant Biology, Microbiology, Zoology)**
 - (i) **Compulsory:** Chemistry (09) and Biology (12)
 - (ii) **Any one of:** Mathematics (07) or Physics (08)
 - (g) **Physics and Solar Energy, Computer Science & Information Technology; Mathematics, Statistics**
 - (i) **Compulsory:** Mathematics (07) Physics (08) and Chemistry (09)
 - (h) **Religious Studies**
 - (i) **Compulsory:** Christian Religious Studies (13)
 - (ii) **Any two of:** Literature-in-English (01) Economics (02) or Government (05)
 - (i) **Law**
 - (i) **Compulsory:** Literature-in-English (01)
 - (ii) **Any two of:** Economics (02) Government (05) Religious Studies (13)
 - (j) **Chemistry, Biochemistry, Industrial Chemistry**
 - (i) **Compulsory:** Mathematics (07) and Chemistry (09)
 - (ii) **Any one of:** Physics (08) or Biology (12)
 - (k) **History & Int. Studies, History, Music, Philosophy**
 - (i) **Any three of:** Literature-in-English (01) Economics (02) Government (05) or Geography (06)
10. The three subjects selected from the above combinations **should be written in columns 3 to 5 in the Answer Sheet**, starting with the compulsory subjects in order in which they are listed.
11. Candidates must read and abide by the above instructions and those found in the answer sheets.
12. All candidates must submit their **QUESTION BOOKLETS** and **ANSWER SHEETS** to the invigilator before leaving the examination hall.
13. **NOTE: Degree Programme Option Codes** are listed on page 2.

BOWEN UNIVERSITY, IWO, OSUN STATE

ACADEMIC DEGREE PROGRAMME OPTIONS AND THEIR CODES

1. **COLLEGE OF HEALTH SCIENCES**
Degree Programme Options
(a) Medicine and Surgery
(b) Anatomy
(c) Physiology
CODE
MMBS
ANA
PHS
2. **FACULTY OF AGRICULTURE**
Degree Programme Options
(a) Agricultural Economics and Farm Management
(b) Agricultural Extension and Rural Development
(c) Animal Science and Fisheries Management
(d) Crop Production and Soil Management
(e) Forestry and Environmental Technology
(f) Food Science and Technology
CODE
AGE
AES
ANF
CRP
FET
FST
3. **FACULTY OF SCIENCE AND SCIENCE EDUCATION**
Degree Programme Options
(a) Microbiology
(b) Plant Biology
(c) Zoology
(d) Chemistry
(e) Industrial Chemistry
(f) Biochemistry
(g) Computer Science and Information Technology
(h) Mathematics
(i) Statistics
(j) Physics and Solar Energy
CODE
MCB
PLB
ZLY
CHM
ICH
BCH
CIT
MAT
STA
PHY
4. **FAULTY OF SOCIAL AND MANAGEMENT SCIENCE**
Degree Programme Options
(a) Accounting
(b) Banking and Finance
(c) Business Administration
(d) Economics
(e) Mass Communication
(f) Political Science
(g) Sociology
CODE
ACC
BFN
BUS
ECN
MASS
POL
SOC
5. **FACULTY OF HUMANITIES**
Degree Programme Options
(a) Communication Arts
(b) English
(c) History
(d) History and International Studies
(e) Music
(f) Religious Studies
(g) Theatre Arts
(h) Philosophy
CODE
CMA
ENG
HST
HIS
MUS
RES
THA
PHI
6. **FACULTY OF LAW**
Degree Programme Options
Law
CODE
LAW

GENERAL KNOWLEDGE

a. Answer ALL questions

b. Shade the letter in the circle corresponding to the correct answer in the answer sheet

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| <p>1. Bowen University, Iwo is owned by?</p> <p>(a) The Nigerian Baptist Commission</p> <p>(b) The Nigerian Baptist Convention</p> <p>(c) The Nigerian Baptist Association</p> <p>(d) The Nigerian Baptist Union</p> | <p>6. Which of the Country is not a member of OPEC?</p> <p>(a) Kuwait</p> <p>(b) Saudi-Arabia</p> <p>(c) Nigeria</p> <p>(d) Britain</p> |
| <p>2. Nigeria's internet country top level domain is</p> <p>(a) .ne</p> <p>(b) .ng</p> <p>(c) .ni</p> <p>(d) .nr</p> | <p>7. Pharaoh used to be King of which Country?</p> <p>(a) England</p> <p>(b) America</p> <p>(c) Denmark</p> <p>(d) Egypt</p> |
| <p>3. At 12,000 years old, the Nok of Nigeria is West Africa's oldest known</p> <p>(a) Book</p> <p>(b) Civilization</p> <p>(c) Tree</p> <p>(d) Weapon</p> | <p>8. The present Vice Chancellor of Bowen University, Iwo is</p> <p>(a) Prof. Yemi Art Alade</p> <p>(b) Prof. Matthews Akintunde Ojo</p> <p>(c) Prof. John Akande</p> <p>(d) Prof. Akintunde Ogunduyile</p> |
| <p>4. Nigeria's international telephone country code is</p> <p>(a) 39</p> <p>(b) 233</p> <p>(c) 234</p> <p>(d) 231</p> | <p>9. The fastest-running terrestrial animal is</p> <p>(a) Cheetah</p> <p>(b) Lion</p> <p>(c) Jaguar</p> <p>(d) Man</p> |
| <p>5. Yoruba, Hausa, Igbo, Efik-Ibibio, Kanuri, Tiv, Fulani, Ijaw are Nigeria's main</p> <p>(a) Political Parties</p> <p>(b) festivals</p> <p>(c) villages</p> <p>(d) ethnicities/native languages</p> | <p>10. Nigeria's new Central Bank Governor is</p> <p>(a) Mr. Godwin Emefiele</p> <p>(b) Malam Sanusi Lamido Sanusi</p> <p>(c) Prof. Charles Soludo</p> <p>(d) Dr. Clement Isong</p> |
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| <p>11. The world's tallest building is.....</p> <ul style="list-style-type: none"> (a) Sears Tower, Chicago (b) Burj Khalifa, Dubai (c) Taipei 101, Taipei (d) Shanghai Tower, China <p>12. Who designed the Nigerian national flag?</p> <ul style="list-style-type: none"> (a) Michael Taiwo Akinkunmi (b) Benedict Odiase (c) B. A. Ogunnaike (d) Eme Etim Akpan <p>13. The symptoms of the deadly Ebola virus include</p> <ul style="list-style-type: none"> (a) High fever (b) bleeding (c) damage of the central nervous system (d) All of the above. <p>14. Identify the odd option in the under-listed</p> <ul style="list-style-type: none"> (a) Bowen University, Iwo (b) Babcock University, Ilesha (c) Covenant University, Ota (d) Bayero University, Kano <p>15. is the Chairman of the Independent National Electoral Commission (INEC)</p> <ul style="list-style-type: none"> (a) Prof. Attahiru Jega (b) Prof. Wole Soyinka (c) Mr. Namadi Sambo (d) Mr. Suleman Atta | <p>16. is the Secretary General of the United Nations</p> <ul style="list-style-type: none"> (a) Mr. Boutros Boutros (b) Mr. Ban Ki-Moon (c) Mr. Kofi Annan (d) Mr. Nkosazana Dlamini-Zuma <p>17. Nigeria is composed of States with the addition of the Federal Capital Territory</p> <ul style="list-style-type: none"> (a) 35 (b) 36 (c) 34 (d) 33 <p>18. is the full meaning of the acronym EFCC</p> <ul style="list-style-type: none"> (a) Economic and Financial Crimes Commission (b) Economic and Finance Crimes Committee (c) Economic and Financial Criminal Commission (d) Economic and Financial Criminal Community <p>19. The Nigerian Civil War started in</p> <ul style="list-style-type: none"> (a) 1957 (b) 1967 (c) 1977 (d) 1987 <p>20. is not a social media platform</p> <ul style="list-style-type: none"> (a) Facebook (b) Twitter (c) Linked-In (d) Blackberry |
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ENGLISH LANGUAGE

- a. Answer ALL questions
- b. Shade the letter in the circle corresponding to the correct answer in the answer sheet

Read the following passage very carefully and answer the questions that follow.

Sometimes a person's attempt to read fast and comprehend much may be faced with a number of problems. Some of these obstacles can be traced to the reader's own habits developed over the years. Others are, however, no fault of the reader but can be traced to natural causes.

First, consider a person whose level of natural intelligence is lamentably low. Intelligence is God-given and sometimes there is very little a person can do to improve his level of intelligence, he would normally be slow in learning to read and would read slowly and poorly.

Nervous disorders also affect one's reading ability. When a person has brain damage, he will have problems in his intellectual activities including his reading performance. Furthermore, children develop at different rates. Some develop at a slower rate than others.

If a child is pushed into a reading programme before he reaches the appropriate level of development, failure might be expected. However, such a child may still catch up when he reaches the right age.

While it has not been conclusively established there is evidence to suggest that eye defects may adversely affect the reading ability of both good and poor readers. A person with bad eyes suffers considerable strain when reading, and it is this strain that discourages liking for reading. This hinders constant practice and result in poor reading performance. Finally, children who have failed in learning to read and write often show signs of emotional problems such as anxiety, fears, truancy, restlessness, nail-biting etc.

1. According to the passage, obstacles to some people's attempt to reading fast and comprehending may be caused by and
 - a) Readers own habits and natural causes
 - b) Not being taught how to read and understand
 - c) Too much hurry and damage brain
 - d) None of the above
2. All these factors can affect a person's reading efficiency except
 - a) Level of intelligence
 - b) Restlessness
 - c) Nervous disorder
 - d) Eye defect

3. What could happen if a child is prematurely pushed into a reading programme?
- a) He may improve in his reading capability
 - b) He will hate reading
 - c) He might not be able to read well
 - d) He copies from classmates
4. Give one reason why it would be unfair to blame a child for his low intelligence
- a) The child inherited low intelligence from the parents
 - b) Intelligence is given by God
 - c) A person with bad eyes assimilate whatever he reads
 - d) None of the above
5. "..... who have failed in learning to read and write" What is the grammatical name given to this expression?
- a) Noun clause
 - b) Noun phrase
 - c) Adjective clause
 - d) Adjective phrase

Choose the appropriate option for each of the following

6. All but one of the following is necessary in pre-lecture preparation
- a) Conducting surveys of course outlines and topics before hand
 - b) Making intelligent speculations about the lecture's sources
 - c) Arriving at lectures well ahead of the lecturer
 - d) A reading of some introductory surveys of the field if the topic is unfamiliar

7. The main goal of a lecture is to
- a) Give course outline to students
 - b) Impact knowledge to students
 - c) Trade information between lecturer and students
 - d) Introduce lecturers to students

Pick the appropriate option for each of the following questions

8. The request of the man was
- a) turned up
 - b) turned on
 - c) turned down
 - d) turn upside down
9. The sick girl the food she ate
- a) threw down
 - b) threw out
 - c) threw up
 - d) threw away

Pick out the correct spellings from the following

10. (a) Across (b) Across
(c) Accros (d) Acruss
11. (a) Occassion (b) Ocasion
(c) Occasion (d) Ocassion

In each of questions 12 to 13, choose the option opposite in meaning to the word(s) or phrase underlined.

12. We almost came unstuck when we played the match without our top striker

- a) Achieved success
- b) Failed
- c) Faltered
- d) Lost confidence

13. Danlami inadvertently left the shop without paying for the goods he bought

- a) Secretly
- b) Reluctantly
- c) Quickly
- d) Intentionally

Choose the option which is nearest in meaning to the word(s) or phrase underlined.

14. When the lady heard the news, she flew into an ungovernable rage

- a) An extraordinary
- b) A noisy
- c) An unnecessary
- d) A violent

15. I would forgive Chidera because she made those remarks in the heat of the moment

- a) Ignorantly
- b) In a fit of anger
- c) In a state of sorrow
- d) Thoughtfully

From the words lettered A-D, choose the word that has the same vowel sound as

the one represented by the letters underlined.

16. Advantage

- (a) Page
- (b) Human
- (c) Women
- (d) Back

17. Leopard

- (a) Leaven
- (b) People
- (c) Led
- (d) Geology

From the words lettered A-D, choose the word that has the same consonant sound as the one represented by the letter(s) underlined

18. Beverage

- (a) Roof
- (b) Off
- (c) Buzz
- (d) of

19. Think

- (a) Conquer
- (b) Kick
- (c) Rake
- (d) Keen

Choose the option that best explains the meaning conveyed in the sentences.

20. My niece embarked on impulse buying in the supermarket

- a) My niece bought all the things she had planned to buy
- b) My niece bought some things she might need in the future
- c) My niece bought some things she did not plan to buy
- d) My niece was rather impulsive about some of the things she bought

HISTORY

- a. Answer ALL questions
b. Shade the letter in the circle corresponding to the correct answer in the answer sheet

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| <ol style="list-style-type: none"> 1. The <i>Aare Ona Kakanfo</i> was the <ol style="list-style-type: none"> a. Chief guard of the Alaafin b. Head of the stand army c. 'generalissimo' who lead Oyo in its wars d. Chief protocol officer of the Alaafin 2. Yoruba <i>Obas</i> (paramount rulers) were usually appointed by <ol style="list-style-type: none"> a. Kingmakers b. The Ogboni cult c. Ifa priests d. The representative of various wards 3. The <i>Basorun</i> in Oyo functioned as the <ol style="list-style-type: none"> a. Chief priest b. Prime minister c. Head of Palace eunuchs d. Commander of the army 4. Where was 'Indirect Rule' least successful in Nigeria from the point of view of the British colonial Regime? <ol style="list-style-type: none"> a. Northern Nigeria b. Eastern Nigeria c. Western Nigeria d. Niger Delta area 5. The objective of the various protest movements in British West Africa before the Second World War was, in the main to <ol style="list-style-type: none"> a. secure political independence b. seek to reform colonialism, not necessarily to overthrow it c. secure cultural emancipation of Africans d. collaborate, as much as possible, with the British colonial authorities. | <ol style="list-style-type: none"> 6. The National Congress of British West Africa was founded in 1920 and led by <ol style="list-style-type: none"> a. Herbert Macaulay b. J. E. Casely Hayford c. Dr. Edward Wilmot Blyden d. Hutton Mills 7. The last Governor-General of Nigeria was <ol style="list-style-type: none"> a. The Oni of Ife, Sir Adesoji Aderemi b. Major-General Aguiyi-Ironsi c. Dr. Nnamdi Azikwe d. Sir James Robertson 8. The dominant personality in Nigeria's politics in the period 1923-1938 was <ol style="list-style-type: none"> a. Herbert Macaulay b. Samuel Akinsanya c. Obafemi Awolowo d. Nnamdi Azikwe 9. What was the most significant consequences of the introduction of the elective principle in Nigeria? <ol style="list-style-type: none"> a. For the first time elected Africans were sitting in the legislative council b. The colonial governor could henceforth gauge public opinion through quinquennial elections c. The elective principle brought about unprecedented political activity, especially in Lagos d. The influence of the traditional aristocracy in Lagos began to wane. |
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| <p>10. The most important factor underlying the 'success' of indirect rule in the Northern and Western Provinces of Nigeria was</p> <ol style="list-style-type: none"> the ingenuity of Lord Lugard who introduced it into the territory the availability of learned mallams versed in Islamic Law coincidence of happy circumstances the existence, prior to British invasion, of a fairly stable and centralized political organization <p>11. Nigeria became a Republic in</p> <ol style="list-style-type: none"> 1960 1961 1963 1965 <p>12. The Supreme Organ of the African Union is</p> <ol style="list-style-type: none"> The Assembly of Heads of States and Government The Council of Ministers The Defence Commission The Liberation Committee <p>13. Oyo political organization was based on the system of checks and balances because</p> <ol style="list-style-type: none"> Alaafin was chosen from among the princes The Aremo was expected to commit suicide on the death of the Alaafin The Bashorun commanded the control of the Oyo Mesi The Bashorun, Ogboni and Alaafin acted as checks on the excessive use or abuse of power. <p>14. The following factors contributed to the rise of Kanem Borno except</p> <ol style="list-style-type: none"> able leadership | <ol style="list-style-type: none"> trans-Atlantic trade Islamic religion geographical location <p>15. Yoruba can be found in the following group of States</p> <ol style="list-style-type: none"> Osun, Oyo, Ekiti, Kwara, Lagos Ekiti, Ondo, Kwara, Lagos, Delta, Osun Lagos, Oyo, Ondo, Osun, Kwara, Ekiti Ekiti, Osun, Ondo, Oyo, Ibadan <p>16. Which of the following was the original family to which the Kanuri people belonged?</p> <ol style="list-style-type: none"> Zafiya Zaghawa Zagaya Sefawa <p>17. The major article of trade from Europe in the triangular trade include the following except</p> <ol style="list-style-type: none"> guns and gunpowder ornaments slaves alcoholic liquor <p>18. _____ was the commander-in-chief of Oyo army</p> <ol style="list-style-type: none"> Oyo Mesi Bashorun Ilari Areonakakanfo <p>19. _____ was the most respected deity among the Ibo</p> <ol style="list-style-type: none"> Agbala Arochukwu Juju Amadioha <p>20. _____ was the ancestor of the Yoruba race</p> <ol style="list-style-type: none"> Obatala Oranmiyan Oduduwa Olubuse |
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GOVERNMENT (CODE: 05)

- a. Answer ALL questions
b. Shade the letter in the circle corresponding to the correct answer in the answer sheet

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| <p>1. A constitution is federal if:</p> <ul style="list-style-type: none">a. It provides for a Presidential systemb. It is not Unitaryc. There is a division of powers between a central and a number of other component authorities.d. The central and component units or authorities are co-ordinate and equal. <p>2. The first political Party properly so-called, was formed in Nigeria in:</p> <ul style="list-style-type: none">a. 1914 b. 1923 c. 1944d. 1951 <p>3. The central point of capitalism, as expounded by Karl Marx is that:</p> <ul style="list-style-type: none">a. Capitalists shall always increase workers earning capacity through wages,b. Capitalists' profits are the surplus value obtained from workers' labour.c. Workers are inherently incapable of being owners of their labour.d. Capitalists shall always readily consent to workers' welfare demand. <p>4. The political neutrality of civil servants implies that they:</p> <ul style="list-style-type: none">a. Are not allowed to be involved in partisan politics.b. Are not allowed to votec. Are not allowed to join any organization or groupd. Have no dealings with politicians. | <p>5. Power differs from influence in that it is:</p> <ul style="list-style-type: none">a. Arrogant while influence is corruptibleb. Coercive while influence is persuasivec. Persuasive while influence is directived. Coercive while influence is harmful. <p>6. A constitution that requires a plebiscite or a referendum to be amended is</p> <ul style="list-style-type: none">a. Flexibleb. Writtenc. Rigidd. Unwritten <p>7. The first Nigeria permanent Representative to United Nations was:</p> <ul style="list-style-type: none">a. Samuel Adebob. Professor Ibrahim Gambaric. General Joseph Garbad. Alhaji Yusuf Maitama Sule <p>8. The major demand of the Third World countries on the United Nations in recent times is the:</p> <ul style="list-style-type: none">a. Post of Secretary General of the organizationb. Expansion of the permanent membership of the Security Councilc. Enforcement of resolutions on the super powers.d. Withdrawal of the Veto power from the Security Council. |
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| <p>9. The permanent members of the Security Council of the United Nations are:</p> <ol style="list-style-type: none">Germany, France, Poland, Hungary and ChinaBritain, Japan, Australia, Germany and the United StatesThe United States, Russia, South Africa, France and BritainThe United States, Russia, France, Britain and China. <p>10. The highest grade in the Civil Service is known as the:</p> <ol style="list-style-type: none">Administrative CadreExecutive CadreTechnical CadreClerical Cadre <p>11. In a democracy, Sovereign authority is exercised by the:</p> <ol style="list-style-type: none">ExecutiveElectoratePeopleLegislature <p>12. A Colloquial Executive is a Government in which power is vested on the:</p> <ol style="list-style-type: none">PresidentParliamentMonarchCommittee <p>13. The unrestrained power of the State over its Citizens is underlined by:</p> <ol style="list-style-type: none">NationalismSelf-determinationSovereigntyPatriotism <p>14. Removal by impeachment applies to the position if a:</p> <ol style="list-style-type: none">Chief JudgePresidentPrime MinisterCabinet Minister | <p>15. Constitutional disputes in States with written constitutions are resolved by the:</p> <ol style="list-style-type: none">OmbudsmanJudiciaryElectorateLegislature. <p>16. The most important challenge facing the Goodluck Jonathan's Administration is:</p> <ol style="list-style-type: none">How to deal with the MilitaryThe fight against corruptionThe successful conduct of the 2015 electionsThe winning of the football World cup by the Green Eagles <p>17. The majority of the OPEC members are from:</p> <ol style="list-style-type: none">Latin AmericaThe Middle EastAsiaAfrica <p>18. The power to exercise overall control of the Executive functions of ECOWAS is vested in the:</p> <ol style="list-style-type: none">Authority of Heads of State and GovernmentSecretary-GeneralCouncil of MinistersTechnical and Special Commissions. <p>19. Tubman Goldie was famous for the</p> <ol style="list-style-type: none">Suppression of local rulersMerger of British companies into the United African CompanyAkassa RaidTreaty of friendship and the race to Nikki <p>20. A Cabinet System of Government is practiced in:</p> <ol style="list-style-type: none">The Peoples' Republic of ChinaThe U.S.A.The United KingdomThe Russia |
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LITERATURE IN ENGLISH (CODE: 01)

a. Answer ALL questions

b. Shade the letter in the circle corresponding to the correct answer in the answer sheet

1. Literature can be expressed in three major genres.....
 - a) prose, drama and poetry
 - b) nonfiction, satire and fable
 - c) narrative, poetry and tragedy
 - d) drama, prose and epic
2. Literature expresses and the events they have gone through in life.
 - a) anger
 - b) woman's experiences
 - c) people experiences
 - d) ritual experiences
3. Who is the Author of *Black Boy*?
 - a) Bukky Wright
 - b) Sola Wright
 - c) Ralph Wright
 - d) Richard Wright
4. Who is the first Nigerian Writer to win the Prestigious Nobel Prize for Literature?
 - a) Akachi Ezeigbo
 - b) Buchi Emecheta
 - c) Chinua Achebe
 - d) Wole Soyinka
5. Matthew is the most handsome man on planet earth is an example of
 - a) paradox
 - b) irony
 - c) hyperbole
 - d) metonymy

Read the poem below and answer the questions that follow:

*"Woman, lay on my forehead your perfumed hands,
hands softer than fur,
Above, the swaying palm trees rustle in the high night breeze,
Hardly at all, No lullaby even
Listen to its song, listen to our dark blood beat, listen
To the deep pulse of Africa beating in the midst of forgotten villages.*

*See the tired moon comes down to her bed on the slack sea
The laughter grows weary the story-tellers even
Are nodding their heads like a child on the back of its mother,
The feet of the dancers grow heavy and heavy
the voice of the answering choirs....*

(Leopold Sedar Senghor) "Nuit de Sine"

6. Stanza one is a general evocation of the
 - a) natural surroundings of deep calm and peace suitable for meditation.
 - b) crusade and perception of the poet
 - c) exploitation of sound patterns
 - d) mist of forgotten villages
7. "Nuit de Sine" is an evocation of the
 - a) ancestor, children and villages
 - b) mystery, beauty and fragrance of the African night
 - c) high profundities of sleep and night
 - d) womanhood and eternal cycle of life

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| <p>8. Stanza two introduces human elements whose reactions underscore the</p> <ul style="list-style-type: none"> a) power of god and his undying love for mankind b) power of night and bring the world of man and nature closer c) power of a woman and nature d) the renewal of life and death <p>9. A sonnet has all EXCEPT one of the following</p> <ul style="list-style-type: none"> a) strictly a fourteen line poem b) it is divided into octave and sestet c) it has a unique rhyming pattern d) it is epic in nature <p>10. can be described as the literary art of diminishing or derogating a subject by making it ridiculous and evoking toward it, attitudes of amusement, contempt, scorn or indignation.</p> <ul style="list-style-type: none"> a) Comedy b) Fable c) Satire d) Pun <p>11. "Hail, Holy Light, Offspring of Heaven firstborn" is an example of</p> <ul style="list-style-type: none"> a) personification b) oxymoron c) apostrophe d) archetype <p>12. <i>Lord of the Flies</i> by William Golding is an</p> <ul style="list-style-type: none"> a) African novel b) allegorical novel c) Romantic novel d) Old English novel | <p>13. A device by which the writer of a fiction or a drama presents scenes or incidents that occurred prior to the opening scene of the work is known as.....</p> <ul style="list-style-type: none"> a) soliloquy b) aside c) flashback d) regression <p>14. One of the following is not a part of this group</p> <ul style="list-style-type: none"> a) <i>The Trials of Brother Jero</i> by Wole Soyinka b) <i>Things Fall Apart</i> by Chinua Achebe c) <i>The River Between</i> – Ngugi wa Thiong'o d) <i>So Long a Letter</i> – Mariama Ba <p>15. A long narrative poem recounting heroic adventures is</p> <ul style="list-style-type: none"> a) a heroic poem b) an epic c) metaphor d) dirge <p>16. <i>The Canterbury Tales</i> is written by</p> <ul style="list-style-type: none"> a) William Shakespeare b) Christopher Marlowe c) Geoffrey Chaucer d) George Chaucer <p>17. A prose work of art which narrates events and experiences that have actually happened in life at one time or the other is known as.....</p> <ul style="list-style-type: none"> a) fiction b) short story c) non-fiction d) novella |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

18. A novel which places emphasis on characters, their motives, conditions and feelings, desires, emotions, experiences and their thinking pattern is described as a

- a) pastoral novel
- b) romantic novel
- c) sociological novel
- d) psychological novel

19. *The Gods are not to Blame* by Ola Rotimi is an adaptation of

- a) *Julius Caesar* by William Shakespeare
- b) *Oedipus Rex* by Sophocles
- c) *Waiting for Godot* by Samuel Beckett
- d) *The White Devil* by John Webster

20. Myths are usually distinguished from legends in that they have

- a) cosmic understanding
- b) less of historical basis
- c) anecdote
- d) racial background

CHRISTIAN RELIGIOUS STUDIES (CODE: 013)

a. Answer ALL questions

b. Shade the letter in the circle corresponding to the correct answer in the answer sheet.

1. The Christian Old Testament contains _____ books.

- A. 66
- B. 29
- C. 39
- D. 20
- E. 27

2. The _____ Decalogue means _____.

- A. the 10 commandments
- B. the law of the Lord
- C. the Sharma
- D. the word of the Lord.

3. The sign of the covenant that God made with Noah was _____.

- A. circumcision
- B. ten commandments
- C. to be father of many nations
- D. The rainbow in the clouds
- E. the beatitude.

4. "Blessed are those who mourn, for they shall _____.

- A. see God
- B. obtain mercy
- C. be comforted.
- D. inherit the earth
- E. be satisfied.

5. That Jesus walked on water indicates that _____.

- A. he has power over nature
- B. he is the son of God
- C. he has the key to the kingdom of God
- D. he is all powerful
- E. he is al knowing.

6. Which of these letters of Paul does not belong to this group?

- A. I Timothy
- B. Romans
- C. Philemon
- D. Titus
- E. II Timothy

7. According to Galatians the fruit of the Spirit is in _____ parts.

- A. 8
- B. 7
- C. 6
- D. 10
- E. 9

8. The books of Matthew, Mark and Luke are known as _____.

- A. Pastoral epistle
- B. the Synoptic gospels
- C. Pauline epistles
- D. Apocryphal books
- E. Earlier books

9. _____ preached God's judgement on false teachers.
A. Philemon
B. James
C. Jude
D. Peter
E. Titus
10. The following, except _____, are among the seven Churches John wrote letters to in the Book of Revelation.
A. Ephesus
B. Smyrna
C. Pergamum
D. Thyatira
E. Lystra
11. The trial of Jesus took place before the following _____ persons, _____ except _____.
A. Caiaphas, the high priest
B. Herod, the king
C. Pilate, the Roman official
D. all of the above
E. none of the above
12. Israelites shall observe the Passover in the month of _____ for it is the month the Lord their God brought them out of Egypt.
A. Nissan
B. Abib
C. Casleu
D. June
E. none of the above
13. Ehud, a left-handed man, delivered Israel from _____.
A. the Moabites
B. the Canaanites
C. the Phillistines
D. Jabin king of Hazar
E. the Midianites
14. Samson slew a thousand men of the philistines with _____.
A. a catapult
B. a fling
C. a jar
D. a fresh jawbone
E. a Stone
15. On the fifth day of creation God created _____.
A. plants and trees
B. sea creatures and birds
C. sun and moon
D. day and night
E. man
16. All the days of Methuselah were _____.
A. nine-hundred and eighty-nine
B. nine-hundred and seventy-nine
C. nine-hundred and ninety-nine
D. nine-hundred and sixty-nine
E. nine-hundred and fifty nine
17. For killing Uriah the Hittite and taking his wife to be his wife, _____.
A. all of David's son died
B. David's wives died
C. David's kingdom was divided
D. the sword did not depart from David's house
E. Solomon died
18. After Elijah prophesied that there shall not be dew nor rain in Israel during the reign of King Ahab, God made the following provisions for him, except _____.
A. brook Cherith
B. ravens
C. a little cake
D. bread and flesh
E. dove

19. "But let justice roll down like waters,
and righteousness like an ever-flowing stream."
This is the main theme of the book of

- A. Isaiah
- B. Joel
- C. Hosea
- D. Jonah
- E. Amos

20. The love of God is conveyed in the book of

- A. Isaiah
- B. Joel
- C. Hosea
- D. Jonah
- E. Amos

MATHEMATICS (CODE: 07)

a. Answer ALL questions

b. Shade the letter in the circle corresponding to the correct answer in the answer sheet.

1. Let $\log y + 3 \log x = 3$, then y is

- A. $\left(\frac{10}{x}\right)^3$ B. $\left(\frac{x}{10}\right)^3$ C. $\left(\frac{x}{10}\right)^{-1/3}$
D. $\left(\frac{10}{x}\right)^{-3}$

2. Evaluate the integral $\int_1^2 \left(x^2 + \frac{1}{x}\right) dx$

- A. $\frac{8}{3} + \ln 2$ B. $\frac{7}{3} + \ln 2$
C. $\frac{7}{3} - \ln 3$ D. $\frac{8}{3}$

3. Simplify: $1 + \frac{2}{3} - 3 \div \left(1 + \frac{2}{3} \text{ of } \frac{2}{7}\right)$

- A. $\frac{-8}{33}$ B. $\frac{21}{11}$ C. $\frac{33}{21}$
D. $\frac{-21}{8}$

4. Evaluate x in base 3 if $41_x - 22_x = 17_x$

- A. 11 B. 8 C. 12 D. 22

5. Let α and β be the roots of the equation $x^2 - 5x + 4 = 0$. Find the value of $\frac{1}{\alpha} - \frac{1}{\beta}$

- A. $\frac{4}{3}$ B. $\frac{-3}{4}$ C. $\pm \frac{4}{3}$
D. $\pm \frac{3}{4}$

6. Express $\frac{5y-12}{(y-2)(y-3)}$ in partial fractions

- A. $\frac{2}{y-2} - \frac{3}{y-3}$ B. $\frac{2}{y-2} + \frac{3}{y-3}$
C. $\frac{2}{y-3} - \frac{3}{y-2}$ D. $\frac{5}{y-3} - \frac{4}{y-2}$

7. If $\frac{dy}{dx} = 2x - 3$ and $y = 3$ when $x = 0$, find y in terms of x .

- A. $x^2 - 3x - 3$ B. $2x^2 - 3x$
C. $x^2 - 3x + 3$ D. $x^2 - 3x$

8. Find the non-zero positive value of x which satisfies the equation

$$\begin{vmatrix} x & 1 & 0 \\ 1 & x & 1 \\ 0 & 1 & x \end{vmatrix} = 0$$

- A. 2 B. 3 C. $\sqrt{2}$ D. 1

9. If w is the mode and z is the median of the following set of numbers:

2.4, 2.1, 1.6, 2.6, 2.6, 3.7, 2.1, and 2.6,

then $(3w, 2z)$ is

- A. (2.6, 2.5) B. (2.1, 2.5)
C. (7.8, 5.0) D. (6.2, 5.0)

10. Some red balls were put into a basket containing 12 white balls and 16 blue balls. If the probability of picking a red ball from the basket is $\frac{3}{7}$, how many red balls were introduced?

- A. 13 B. 20 C. 12 D. 21

11. The second and fifth terms of a geometric progression are 6 and -48 respectively. The first term is

- A. -3 B. 3 C. 12 D. -12

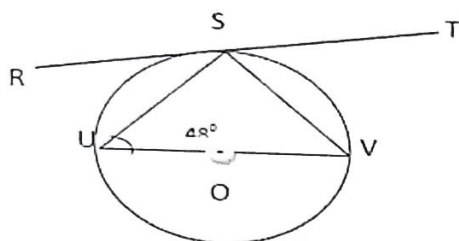
12. If $4^{x+1} \times 8^{2x-1} = 16$, find x

- A. 1 B. $9\frac{1}{2}$ C. $\frac{5}{8}$ D. -1

13. A shopkeeper sold an item for ₦3,600 making a profit of 20%. Find the original price of the item

- A. ₦2,280 B. ₦3,000 C. ₦4,500
D. ₦4,000

14. In the figure below, RST is a tangent to the circle centre O. It touches the circle at S. UV is the diameter and $\angle SUV = 48^\circ$



Find $\angle RSU$

- A. 48° B. 138° C. 42° D. 90°
15. Find the standard deviation of the data given in the table below

Class	1-3	4-6	7-9
Frequency	5	8	5

- A. 5 B. 6 C. $\frac{5}{3}$ D. $\sqrt{5}$
16. If P varies inversely as V and V varies directly as R^2 , find the relationship between P and R given that $R = 7$ when $P = 2$

- A. $P = 98R^2$ B. $PR^2 = 98$
- C. $P^2R = 89$ D. $P = \frac{R^2}{98}$

17. Let $P = \{1, 2, u, v, w, x\}$, $Q = \{2, 3, u, v, w, 5, 6, y\}$ and $R = \{2, 3, 4, v, x, y\}$. Determine $(P/Q) \cap R$
- A. \emptyset B. $\{x\}$ C. $\{x, y\}$ D. $\{1, x\}$

18. If $\frac{n_{P_3}}{n_{C_3}} = 6$, find the value of n

- A. 6 B. 3 C. 5 D. 1

19. The probability of an event P is $\frac{3}{4}$, while that of another event Q is $\frac{1}{6}$. If the probability of both P and Q is $\frac{1}{12}$, what is the probability of either P or Q ?

- A. $\frac{1}{96}$ B. $\frac{1}{8}$ C. $\frac{5}{6}$ D. $\frac{11}{12}$

20. Find the remainder when $x^3 - 3x^2 + 4x - 7$ is divided by $x + 2$

- A. -3 B. -7 C. -35
- D. $x^2 - 5x + 14$

BIOLOGY (CODE: 012)

a. Answer ALL questions

b. Shade the letter in the circle corresponding to the correct answer in the answer sheet.

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Cell components that control inheritance are
a. Genes
b. Zygote
c. Codons
d. Glycosides
e. Ribosomes | c. Energy
d. Amino acids
e. Minerals |
| 2. A lichen is a _____ relationship between a fungus and an alga.
a. Parasitic
b. Symbiotic
c. Predatory
d. Phoretic
e. None of the above | 6. Mutation can be
a. Inherited
b. Random or spontaneous
c. Chromosomal or genetic
d. Phenotypic only
e. Environment induced |
| 3. Thread-like structures located in the nucleus, made up of protein and a single molecule of DNA is
a. Oogametes
b. Chomosomes
c. RNA
d. Alleles
e. Ribosomes | 7. The following are products of aerobic respiration except
a. Carbon dioxide
b. Oxygen
c. Water
d. ATP
e. DNA |
| 4. Law of Independent Assortment was proposed by
a. Isaac Newton
b. Carl Linnaeus
c. Charles Darwin
d. Alfred Wallace
e. Gregor Mendel | 8. The causative agent of typhoid fever is
a. <i>Salmonella</i>
b. <i>Escherichia</i>
c. <i>Clostridium</i>
d. <i>Shigella</i>
e. <i>Mycobacterium</i> |
| 5. Protein is broken down to provide
a. Oxygen
b. Carbohydrate | 9. The advantage of seed dispersal includes
a. Less spread of disease
b. Plants colonizing new habitats
c. Prevention of overcrowding by plants in the same habitat
d. All of the above
e. None of the above |

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- | | |
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| <p>10. One significant difference between roots and stem is that</p> <ul style="list-style-type: none">a. Branch root originate in the pericycle while stem do notb. Stems are below the ground while roots are always above the groundc. Stems are positively geotropic while roots are negatively geotropicd. Stems are sometimes used for storage while roots are never usede. None of the above <p>11. Water and dissolved salts are carried through</p> <ul style="list-style-type: none">a. Veinsb. Midrib of leafc. Phloemd. Cambiume. Xylem <p>12. The fruit formed from a single flower having several free carpels is</p> <ul style="list-style-type: none">a. Multiple fruitb. Simple fruitc. Dehinscent fruitd. Aggregate fruite. Indehinscent fruit <p>13. Which of the following best describes the levels of organization?</p> <ul style="list-style-type: none">a. Tissue → Cell → Organ → Systemb. System → Organ → Tissue → Cellc. Organ → Tissue → Cell → Systemd. Cell → Tissue → Organ → Systeme. Cell → Organ → Tissue → System | <p>14. _____ carries oxygenated blood to the heart from the lungs.</p> <ul style="list-style-type: none">a. Jugular veinb. Pulmonary arteryc. Pulmonary veind. Carotid arterye. None of the above <p>15. _____ is absent in an animal cell.</p> <ul style="list-style-type: none">a. Cell membraneb. Cell wallc. Cytoplasmd. Nucleuse. Mitochondria <p>16. _____ carries eggs from the ovaries to the uterus is called</p> <ul style="list-style-type: none">a. Clitorisb. Vulvac. Vaginad. Urethrae. Fallopian tube <p>17. The food relation from grass → deer → tiger → decomposer is called</p> <ul style="list-style-type: none">a. Food webb. Food chainc. Trophic leveld. Energy flowe. Food cycle <p>18. Organisms having the potential for interbreeding and producing fertile offspring are called</p> <ul style="list-style-type: none">a. Speciesb. Orderc. Familyd. Genus |
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| <p>19. _____ deals with the study of relationships of living organisms with each other and with their non-living surrounding.</p> <ul style="list-style-type: none">a. Biologyb. Ecosystemc. Geneticsd. Ecologye. Physiology <p>20. _____ is a close association between two living organisms of different species that is beneficial to one but does not affect the other.</p> <ul style="list-style-type: none">a. Parasitismb. Commensalismc. Mutualismd. Predatione. None of the above | |
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PHYSICS (CODE: 08)

a. Answer ALL questions

b. Shade the letter in the circle corresponding to the correct answer in the answer sheet.

1. Which of the following is a scalar quantity?

- A. Acceleration
- B. Mass
- C. Momentum
- D. Velocity

2. A motorist travelling at 10ms^{-1} can bring his car to rest in a distance of 10m. If he had been travelling at 30ms^{-1} , in what distance would he bring the car to rest using the same braking force?

- A. 17 m
- B. 30 m
- C. 52 m
- D. 90 m

3. What is meant by the term weight of an object?

- A. the gravitational field acting on the object
- B. the gravitational force acting on the object
- C. the mass of the object multiplied by gravity
- D. the object's mass multiplied by its acceleration

4. A projectile is fired from the surface of the Earth with a speed of 200ms^{-1} at an angle of 30° above the horizontal. If the ground is level, what is the maximum height reached by the projectile?

- A. 5 m
- B. 10 m
- C. 500 m
- D. 1,000 m

5. An object of mass, 25kg moves at 5m/s round a circular path of radius, 5m.

Calculate the centripetal acceleration of the object.

- A. 10m/s^2
- B. 5m/s^2
- C. 15m/s^2
- D. 20m/s^2

6. A body of mass 4kg is acted upon by a constant force of 12N for 2s. Calculate the K.E gained by the body.

- A. 72J
- B. 73J
- C. 74J
- D. 75J

7. A bricklayer plastering a house falls from an uncompleted building of height 50m. Calculate the time he takes to reach the ground. ($g = 10\text{m}^{-2}$)

- A. 3.0s
- B. 3.12s
- C. 3.40s
- D. 3.16s

8. The velocity of a wave of amplitude 0.2 is 8m/s and its frequency is 4Hz. Calculate the phase difference between two points on the wave which are 0.5m apart.

- A. $\frac{\pi}{2}$
- B. $\frac{\pi}{5}$
- C. $\frac{\pi}{3}$
- D. $\frac{\pi}{6}$

9. The period of a wave is 0.02s. Calculate the wave length if its speed is 330m/s.

- A. 5.0m B. 4.0m C. 6.6m D. 7.0m

10. The change in the direction of a wave front because of a change in the velocity of the wave in another medium is called.
- A. Refraction
 - B. Reflection
 - C. Diffraction
 - D. Dispersion.
11. A convex mirror of focal length 15cm produces an image on its axis 5cm away from the mirror. Determine the position of the object.
- A. 7.5cm
 - B. 7.2cm
 - C. 7.1cm
 - D. 7.0cm
12. If the volume of a fixed mass of hydrogen in a container is 30cm^3 at a pressure of 500mmHg, calculate the volume of the gas if the pressure is 600mmHg at constant temperature.
- A. 25cm^3
 - B. 25cm^2
 - C. 26cm^3
 - D. 26cm^2
13. How long does it takes a 750W heater operating at full rating to raise the temperature of 1kg of water from 40°C to 70°C . (specific heat capacity of water = 4200J/KgK , neglecting heat losses).
- A. 178sec
 - B. 168sec
 - C. 158sec
 - D. 1458sec
14. Calculate the quantity of heat required to melt an ice of mass 0.7kg which has specific latent heat of fusion 336J/kg
- A. 236.7KJ
 - B. 234.3KJ
 - C. 235.2KJ
 - D. 237.7KJ
15. The temperature at which the water present in the air is just sufficient to saturate it is called the?
- A. Ice point
 - B. Boiling point
 - C. Steam point
 - D. Dew point
16. Which of the following instrument may be used to measure relative humidity?
- A. Hygrometer
 - B. Hydrometer
 - C. Barometer
 - D. Hypsometer
17. A gas which obeys Charles law exactly has a volume of 283cm^3 at 10°C . What is its volume at 30°C
- A. 142cm^3
 - B. 293cm^3
 - C. 308cm^3
 - D. 849cm^3
18. The device used in storing charges is called
- A. Electricity
 - B. Capacitor
 - C. Cathodes
 - D. Electrodes
19. An electric heater uses 5.0A when connected across 110V device. Determine its resistance.
- A. 33Ω
 - B. 22Ω
 - C. 44Ω
 - D. 55Ω
20. In an X-ray tube the frequency of an emitted X-ray is $1.6 \times 10^{12}\text{Hz}$. Calculate the accelerating potential.
- A. 77.3V
 - B. 66.3V
 - C. 55.3V
 - D. 88.3V

CHEMISTRY (CODE: 09)

a. Answer ALL questions

b. Shade the letter in the circle corresponding to the correct answer in the answer sheet.

1. A solid X when heated gives off a brown gas. If X is soluble in excess sodium hydroxide solution but insoluble in excess ammonium hydroxide solution, then X is

- (a) Sodium nitrate
- (b) Lead (II) nitrate
- (c) Barium sulphate
- (d) Sodium hydrogen carbonate
- (e) Sodium chloride

2. The least easily oxidized of the metals below is _____?

- (a) Sodium
- (b) Aluminum
- (c) Zinc
- (d) Calcium
- (e) None of the above

3. Alkanones are generally obtained by the oxidation of _____?

- (a) Secondary alkanols
- (b) Primary alkanols
- (c) Tertiary alkanols
- (d) All of the above
- (e) Alkanoic acid

4. A property of a colloidal dispersion which a solution does not have is _____?

- (a) Osmotic pressure
- (b) The tyndall effect
- (c) homogeneity
- (d) Surface polarity
- (e) None of these

5. Which of the following metals can be prepared in samples by the thermal decomposition of their trioxonitrate (V) salts?

- (a) Silver and mercury
- (b) Copper and mercury
- (c) Mercury and magnesium

- (d) Silver and copper
- (e) Magnesium and copper.

6. The air pollutant unknown in nature is _____?

- (a) HCHO
- (b) CO
- (c) NO
- (d) DDT
- (e) SO₂

7. A mixture of iodine and sulphur crystals can be separated by treatment with _____?

- (a) Water to filter off sulphur
- (b) Ethanoic acid to filter off sulphur
- (c) Methanol to filter off iodine
- (d) Carbon (IV) sulphide to filter off iodine
- (e) potassium permanganate to decolorize yellow sulphur

8. A common characteristics of copper and silver in their usage as coinage metals is that they _____?

- (a) Are not easily oxidized
- (b) Are not easily reduced
- (c) Hence high metallic luster
- (d) Are easily oxidized
- (e) Are easily reduced

9. When carbon (IV) oxide is bubbled into lime water, a white precipitate is formed. If the passage of the gas is continued, the precipitate disappears. The reason for this is _____?

- (a) The solution has become saturated and solid carbon (IV) oxide has been deposited
- (b) Concentration of the solution has occurred with the deposition of calcium hydrogen carbonate

- (c) Calcium carbonate is formed which on reaction with further carbon (IV) oxide forms soluble calcium hydrogen carbonate
(d) Calcium hydrogen carbonate is precipitated and then dissolves
(e) Calcium carbonate is formed which gradually dissolves

10. Which of the following water samples will have the highest titre value when titrated for the Ca^{2+} ion using soap solution?

- (a) Rain water stored in a glass jar for two years
(b) Permanently hard water after boiling
(c) Temporarily hard water after boiling
(d) Permanently hard water passed through permutit
(e) None of the above

11. A quantity of electricity liberates 3.6g of silver from its salt. What mass of Aluminum will be liberated from its salt by the same quantity of electricity [$\text{Al}=27$, $\text{Ag}=108$]

- (a) 0.3g
(b) 2.7g
(c) 1.2g
(d) 0.9g
(e) 7.2g

12. Tetraoxosulphate (VI) acid is prepared using the chemical reaction $\text{SO}_{3(g)} + \text{H}_2\text{O}_{(l)} \rightarrow \text{H}_2\text{SO}_{4(g)}$. Given the heats of formation for $\text{SO}_{3(g)}$, $\text{H}_2\text{O}_{(l)}$ and $\text{H}_2\text{SO}_{4(aq)}$ as -395kJmol^{-1} , -286kJmol^{-1} and -841kJmol^{-1} respectively, the enthalpy change accompanying this reaction is _____?

- (a) +1032kJ
(b) -1032kJ
(c) +130kJ
(d) -130kJ
(e) -1492kJ

13. The times taken for iodine to be liberated in the reaction between sodium thiosulphate and hydrochloric acid at various temperature are as shown below:

Temp ($^{\circ}\text{C}$)	25	35	45	55
Time(s)	72	36	18	09

These results suggest that _____

- (a) The higher the temperature the lower the time iodine disappeared
(b) Time taken for iodine to appear does not depend on temperature
(c) For 10° rise in temperature, rate of reaction is tripled
(d) For 10° rise in temperature, rate of reaction is double
(e) For a 10° rise in temperature, rate of reaction is halved

14. Complete oxidation of propan-1-ol gives _____?

- (a) Propanoic acid
(b) Propan-1-one
(c) Propan-2-al
(d) Propanal
(e) Propane

15. The formula of the compound formed in a reaction between a trivalent metal M and a Pentavalent non metal X is _____?

- (a) M_3X_5
(b) MX
(c) M_5X_3
(d) M_3X_3
(e) MX_2

16. Which of the following relationships between the pressure P, the volume V and the temperature T, represents an ideal gas behavior?

- (a) $PT \propto V$
(b) $P \propto VT$
(c) $P \propto T/V$
(d) $PV \propto VT$
(e) $P \propto V/T$

17. 2.5g of a hydrated barium salt gave on heating, 2.3g of the anhydrous salt. Given that the relative molecular mass of the anhydrous salt is 208, the number of molecules of water of crystallization of the barium salt is _____?

- (a) 5 (b) 2 (c) 7 (d) 10 (e) 1

18. Manganese (IV) oxide reacts with concentrated hydrochloride acid according to the equation: $\text{MnO}_2 + x\text{HCl} \longrightarrow \text{MnCl}_2 + \text{Cl}_2 + y\text{H}_2\text{O}$ X and y are _____

- (a) 2 and 4 respectively
- (b) 3 and 2 respectively
- (c) 4 and 1 respectively
- (d) 4 and 2 respectively
- (e) 2 and 5 respectively

19. ${}^3_1\text{R}$, ${}^{19}_9\text{U}$, ${}^{24}_{12}\text{S}$, ${}^{20}_{10}\text{T}$, ${}^{18}_9\text{Y}$,

Which of the following statements is NOT true of the elements

- (a) R, U, S, T, Y?
- (b) R, U, S and T are metals
- (c) T is an Isotope of hydrogen
- (d) S will react with oxygen to form SO
- (e) U and Y are Isotopes

20. Stainless steel is an alloy of _____

- (a) Carbon and iron only
- (b) Carbon, iron and Chromium
- (c) Carbon, iron and Lead
- (d) Carbon, iron and Silver
- (e) Carbon, iron and Copper

ACCOUNTING (CODE: 04)

a. Answer ALL questions

b. Shade the letter in the circle corresponding to the correct answer in the answer sheet.

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| <ol style="list-style-type: none"> 1. The Accounting concept that states the ownership of the Company should be dealt with separately from the Company herself is <ol style="list-style-type: none"> a. Going concern concept b. Entity concept c. Accrual concept d. Matching concept 2. Where a trader does not maintain double entry records but has a record of receipts and payments, he is said to be operating a system of <ol style="list-style-type: none"> a. Incomplete records b. Single entry c. Partial records d. Significant records 3. One of the following is NOT a feature of a non-current asset? <ol style="list-style-type: none"> a. It can be seen and touched b. It has long life span c. Acquired for use in the operation of a business d. Intended for resale to customer 4. The extra consideration for the guarantee to collect all trade debts is the <ol style="list-style-type: none"> a. Del credere commission b. Normal commission c. Sales Commission d. Trade debt Commission. 5. A statement of facts prepared by a Consignee and sent to a Consignor is the <ol style="list-style-type: none"> a. Statement of Sales b. Sales and Expenses report c. Account Sales d. Consignee's report 6. The organization that publishes and issues International Financial Reporting Standards (IFRSs) is..... | <ol style="list-style-type: none"> <ol style="list-style-type: none"> a. Nigerian Accounting Standards Board b. International Financial Reporting Standards Board c. International Accounting Standards Board d. International Federation of Accountants 7. The current assets possessed by Bowen Commercial Services Ltd are Cash ₦5,200,000; Inventory ₦28,000,000; Receivables ₦21,000,000. The current ratio of company is 2:1. What is the Acid test ratio? <ol style="list-style-type: none"> (a) 0.97:1 (b) 0.67:1 (c) 0.89:1 (d) 0.99:2 8. The accounting equation is..... <ol style="list-style-type: none"> a. Asset – Liabilities + Capital = 0 b. Asset + Liabilities = Capital c. Liabilities + Asset = – Capital d. Capital – Asset + 0 = – Liabilities 9. The following are 2nd level users of accounting information except <ol style="list-style-type: none"> a. Shareholders b. Banks / Insurance c. Trade Creditors d. Management 10. A petty Cashier's reimbursable expenses at the end of the month is ₦20,000. He has incurred a total expenditure of ₦18,250. How much will be reimbursed? <ol style="list-style-type: none"> a. 19,250 b. 18,250 c. -1,750 d. -20,000 |
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11. The Accounting Concept which states that 'every financial expenditure should be Classified in accordance with the income it generates is...'

- Income concept
- Periodicity concept
- Matching concept
- Realization concept.

Use the following information to answer questions 12-13

	N
Turnover	100,000
Gross Profit	20,000
General Expenses	12,000
Opening Stock	10,000
Closing Stock	7,000

12. What is the value of purchases?

- N38,000
- N60,000
- N77,000
- N50,000

13. What is the value of Net profit?

- N8,000
- N10,000
- N20,000
- N6,000

14. Which of the following will be recognized in the debtors list at the end of the financial Year?

- Debt owing
- Salaries and Wages
- Miscellaneous
- Stock

15. A trial balance can be thrown off balance with these errors except;

- Error of Principle
- Error of Casting
- Complete Omission of ledger balance
- Transpositional error

16. Cash withdrawal from the Bank is

- Debit transaction to Cash account
- Credit transaction to Cash account
- Debit transaction to Bank account
- Credit transaction to the ledger account

17. Mercy Enterprises is into a new business and has just obtained a loan from the bank to Start the business, what is this fund called?

- Equity capital
- Pneuiel capital
- Set-Up capital
- Loan capital

18. A bank statement needs to be reconciled with the cash book because of the following Reasons except ;

- Vat
- Management fee
- Commission on Internet
- Commission on Turnover (Cot)

19. A loan from the bank for which your personal home/house is used as a collateral is called;

- Mortgage debenture
- Debenture Stock
- Debenture Loan
- Mortgage Loan

20. Stores Issued Voucher (SIV) is issued by the Store keeper for;

- Goods received to store
- Goods returned from store
- Goods given out of the store
- Goods taken back to the store

COMMERCE (CODE: 03)

- a. Answer ALL questions
b. Shade the letter in the circle corresponding to the correct answer in the answer sheet.

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| 1. Commerce is a concept or discipline which describes: | (d) Acquire knowledge to gain international reputation and fame |
| (a) Buying and selling of goods and services | 5. The business environment of an organization involves: |
| (b) The utilisation of resources in the business environment efficiently | (a) The factory site where it is located for productive activities |
| (c) The production, distribution and consumption of goods and services | (b) The operational decision-making process of the political, economic, social technological dimensions etc |
| (d) The transformation of raw materials into finished products | (c) The selling point involving the operations of wholesalers and retailers |
| 2. The oldest form of business organization is coined as: | (d) The international dimension of the business organization for profitability |
| (a) The joint stock company | 6. The money market is made up of: |
| (b) Co-operative ventures | (a) The Security and Exchange Commission (SEC) |
| (c) The sole proprietorship | (b) The Nigerian Stock Exchange (NSE) |
| (d) The partnership | (c) The Central Bank of Nigeria (CBN) |
| 3. An effective sales promotion captures | (d) The Commercial Banks |
| (a) Advertisement on radio through jingles | 7. The mainstay of the Nigerian economy is basically dependent on: |
| (b) Offering free samples for use by prospective buyers | (a) Rapid industrial development to grow the economy |
| (c) Distribution of printed materials as an incentive to buyers | (b) The transformation of health and educational sectors |
| (d) Advertisement through television and print media | (c) Improved and sustained agricultural revolution |
| 4. The study of the discipline of commerce prepares students to: | (d) Improved and enhanced service industry through the energy sector |
| (a) Become renowned academicians that can contribute to knowledge | |
| (b) Learn the rudiments and benefits of the discipline to serve humanity better | |
| (c) Become prolific writers of commercial books for profit maximization | |

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| 8. A free market economic system is conceptualized by: | (c) Common diseases that devour an efficient-business organisation |
| (a) Invisible market forces operating as the driving force of the economy | (d) The major technical dimensions of the business environment of an organisation |
| (b) The command system of control by groups of individuals | |
| (c) Traditional system from one generation to another | 12. Which of these statements is not a function of the Central Bank of Nigeria? |
| (d) The control is exercised through mixed market economic operations | (a) Issuance of a legal tender |
| 9. A market is defined conceptionally as: | (b) Management of the national debt |
| (a) A system/arrangement bringing buyers and sellers together | (c) Maintenance of the external value of the currency |
| (b) An arrangement where goods and services are sold in a place | (d) The control of the interest rate |
| (c) A system where prices are dictated by sellers only | 13. One of the determinants of credit creation is known as: |
| (d) A situation where perfect competition only exists | (a) Cash Reservation Ratio |
| 10. Time value of money implies: | (b) The Issuing House Service |
| (a) The liquidity preference for money at a point in time | (c) Granting of Credit Facilities |
| (b) The opportunity cost to invest in profitable ventures at a particular time | (d) The transfer of money to other banks |
| (c) The investment decisions taken from time to time | 14. The Security and Exchange Commission does not perform one of these functions |
| (d) The concepts of the present value of money | (a) The determination of the amount of time securities are sold to the public |
| 11. The acronym 'PEST' describes a picture of a business environment involving: | (b) The registration of Stock Exchange branches and registrars nationwide |
| (a) The level of production attained in a business organization | (c) The training of brokers and jobbers for professional job opportunities |
| (b) The sales revenue profile of a business organisation | (d) The promotion of integrity in the entire security market nationwide |

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| <p>15. The determination of the price of a commodity in the market depends on:</p> <ul style="list-style-type: none"> (a) The number of buyers and sellers in the market. (b) The number of the sellers of the product in the market (c) The nature and the degree of competition in the market (d) All of the above | <p>19. The problems of calculating the national income of a country include:</p> <ul style="list-style-type: none"> (a) The unresolved issue of transfer payments (b) The double counting issue relating to the production of goods and services (c) The timing of computation of the statistical data (d) All of the above |
| <p>16. Corporate social responsibility of a business venture requires:</p> <ul style="list-style-type: none"> (a) Extensive consultations while planning to buy cars for employees (b) Encouraging workers to make contributions for ceremonial purposes (c) Addressing issues relating to societal problems and misunderstanding (d) Setting up social welfare centres to address issues on welfare package | <p>20. Which of the following statement does not enhance gains from international trade?</p> <ul style="list-style-type: none"> (a) The tendency to increase the total world output of goods and services (b) There will be substantial increase in people's welfare and improved living standard (c) It is only to promote the growth of domestic trade to strengthen the value of local currency (d) It is a source of increasing government revenue through imposition of tariffs |
| <p>17. The short-comings of trade by barter do not include one of the following statements</p> <ul style="list-style-type: none"> (a) Divisibility of certain goods (b) Transportation of bulky goods (c) Externalities arising from barter (d) Durability problem | |
| <p>18. Money is an effective store of value because</p> <ul style="list-style-type: none"> (a) Individuals can keep their surplus output of goods in money (b) It can be kept as cheaply as possible relative to physical goods (c) It does not need further conversion before being used (d) It cannot be burnt by fire if properly kept | |

ECONOMICS (CODE: 02)

- a. Answer ALL questions
- b. Shade the letter in the circle corresponding to the correct answer in the answer sheet.

SECTION A

Indicate whether each of the statements below is TRUE or FALSE BY SHADING **OPTION A for TRUE** and **OPTION B for FALSE**

1. Economics exists because human needs are greater than available material resources.
2. Change in demand refers to a movement along the same demand curve because of a decrease or increase in the price of the good in question.
3. A normal good is one whose quantity demanded varies inversely with income.
4. An equilibrium level of production is characterized by lack of a tendency for a change.
5. Utility is not usefulness but the satisfaction derived by a consumer who purchases a commodity simply because the $MUX = P_x$.
6. A decline in price leaves the total revenue unchanged when the coefficient of price elasticity of demand is one.

7. The budget line shows different combinations of two goods that the consumer can afford to buy, given his income and market prices, whereas an indifference curve joins together all points on the curve representing different combinations of two goods yielding equal utility to the consumer.
8. The supply curve becomes more elastic, the shorter the time period under consideration.

SECTION B

Identify and insert the letter corresponding to the correct answer in the answer sheet.

9. The most important factors of production consist of the following:
 - (a) labour, land and capital
 - (b) water, earth and knowledge
 - (c) money, stocks and bonds
 - (d) management, finance and marketing enterprise

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| <p>10. Which of the following issues is related to microeconomics?</p> <p>(a) oil prices on car production and distribution</p> <p>(b) money on inflation and economic growth potentials</p> <p>(c) Technology on economic growth</p> <p>(d) The deficit on saving accumulation</p> | <p>14. If $M_t = kY$ is the equation for transactional demand for money by a household, $K = 0.20$ while the family's income is ₦10,000.00 per week. Determine the level of the demand for money for the family's weekly transactions</p> <p>(a) ₦500</p> <p>(b) ₦1000</p> <p>(c) ₦2000</p> <p>(d) ₦3000</p> |
| <p>11. The law of demand states that, an increase in the price of a good:</p> <p>(a) increases the supply of that good</p> <p>(b) decreases the quantity demanded for that good</p> <p>(c) likely increases the quantity supplied of that good</p> <p>(d) causes a shift in demand</p> | <p>15. The per capital income concept captures:</p> <p>(a) The measurement of the amount of capital of a country</p> <p>(b) The measurement of the income of the rich and wealthy in a country</p> <p>(c) The method of the valuation of all the capital projects in a country</p> <p>(d) The measurement of the income per head of the total population at a time</p> |
| <p>12. At price of ₦45.00, 20 units of mango were purchased but when the price rose to ₦50.00 per unit, 16 units were bought. The price elasticity of demand is</p> <p>(a) 1.5</p> <p>(b) 1.6</p> <p>(c) 1.75</p> <p>(d) 1.8</p> | <p>16. The structure of a market sums up:</p> <p>(a) The number of sellers and buyers in the market</p> <p>(b) The system through which buyers and sellers bargain for an acceptable price</p> <p>(c) The determination of the actual price of a commodity</p> <p>(d) The nature and the degree of competition</p> |
| <p>13. Double coincidence of wants requires a condition which must be satisfied</p> <p>(a) Simultaneously through demand for goods and services between two people</p> <p>(b) A person has to look for another to exchange goods and services with</p> <p>(c) Two people should meet to discuss the mode of exchange</p> <p>(d) Two people should exchange equal amounts of goods and services</p> | |

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| <p>17. Which of the following factors does not contribute to increased government expenditure?</p> <ul style="list-style-type: none"> (a) Expansion of state activities because of increasing demand (b) Internal security challenges (c) Increasing population with increasing urban-rural migration problems (d) In-depth study of the functions of the Central Bank of Nigeria <p>18. The whole essence of the progressive tax system is to:</p> <ul style="list-style-type: none"> (a) Take a higher percentage of income as an individual's income rises (b) Take a higher percentage of income only from the rich people (c) Focus only the poor people to pay less (d) Make the tax regressive for the rich who should pay more | <p>19. Inflation is a concept which is defined as:</p> <ul style="list-style-type: none"> (a) A persistent rise in the price level generally in an economy (b) A persistent rise in consumer goods prices only (c) Hyper inflation with its galloping indices (d) Creeping inflation moving slowly and in a cyclical form at another time. <p>20. The principles of Federal Government's Revenue Allocation policy do not cover:</p> <ul style="list-style-type: none"> (a) Derivation criterion (b) Equality of states (c) Population (d) Geographical spread. |
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GEOGRAPHY (CODE: 06)

- a. Answer ALL questions
b. Shade the letter in the circle corresponding to the correct answer in the answer sheet.

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| <p>1. Iron deposit is a natural resources when it occurs</p> <ul style="list-style-type: none">a. In high concentrationsb. With few impuritiesc. In economic quantitiesd. In sedimentary formation <p>2. The fundamental role played by the decomposers in the functioning of the eco-system is the</p> <ul style="list-style-type: none">a. Disposal of plant and animal waste productsb. Release of energy and nutrients locked up in organic litterc. Precipitation of organic and mineral elements from the soild. Cycling of water and chemical elements <p>3. A solution to wind erosion in semi-arid areas is the establishment of</p> <ul style="list-style-type: none">a. Crop stripsb. Terrace boundsc. Shetter beltsd. Diversion channels <p>4. The most common tree in the dessert is the</p> <ul style="list-style-type: none">a. Dateb. Acaciac. Pined. Larch | <p>5. The medium class of layered cloud which brings continuous rain, snow or sleet is the</p> <ul style="list-style-type: none">a. Altocumulusb. Altostratusc. Stratocumulusd. Nimbostratus <p>6. A soft, black opaque carbonaceous rock that can be used to make pencil is</p> <ul style="list-style-type: none">a. Lignite b. Graphite c. Leadb. Coal <p>7. Which of the following is a major mineral resource found in South Africa</p> <ul style="list-style-type: none">a. Limestoneb. Natural gasc. Copperd. Gold <p>8. A metamorphosed form of shale is</p> <ul style="list-style-type: none">a. Slateb. Marblec. Quartzited. Gneiss <p>9. A form of chemical weathering is</p> <ul style="list-style-type: none">a. Fragmentationb. Exfoliationc. Carbonationd. Shattering |
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10. Ocean currents affects the coast they wash when
 - a. Prevailing winds are offshore
 - b. Prevailing winds are onshore
 - c. There are no prevailing winds
 - d. The ocean floods the shore
11. What is the climate of a station with an annual rainfall of 2650 mm spread fairly all year round and a mean annual temperature of 27 ° C?
 - a. Tropical wet and dry
 - b. Tropical monsoon
 - c. Tropical humid
 - d. Mediterranean woodland
12. The in product of materials that have negative impact on the ecosystem is known as
 - a. Pollution
 - b. Combustion
 - c. Transpiration
 - d. Evaporation
13. An example of a climate hazard is
 - a. Volcanic eruption
 - b. Earthquake
 - c. Hurricane
 - d. Coastal erosion
14. Fertile plains are usually characterised by a pattern of settlement referred to as
 - a. Nucleated and concentric
 - b. Nucleated and elongated
 - c. Dispersed
 - d. Nodal
15. The standard railway gauge is most common in
 - a. North America and Europe
 - b. Europe and Africa de is
 - c. Africa and North America
 - d. South America and Africa
16. Petroleum is extracted in Nigeria by
 - a. Drilling
 - b. Refining
 - c. Mining
 - d..Dredging
17. Organic sedimentary rocks are formed from the
 - a. Solution of substance
 - b. Result of pressure from the underlying rocks
 - c. Remains of living organism
 - d. Vegetative matters
18. Which of the following is an agent of denudation
 - a. Insulation
 - b. Wind
 - c. Energy
 - d. Gravity
19. Which of the following rocks is characterised by layer formation and strata?
 - a. Metamorphic
 - b. Volcanic
 - c. Sedimentary
 - d. Igneous
20. The term used to describe the vegetation type of the Amazon Basin is
 - a. Pampas
 - b. Coniferous
 - c. Selvas
 - d. Vale

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