

Sl. No. : 10003617

MCHN/15

Register  
Number

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2015  
NURSING  
(Degree Standard)

Time Allowed : 3 Hours]

[Maximum Marks : 300

Read the following instructions carefully before you begin to answer the questions.

IMPORTANT INSTRUCTIONS

1. This Booklet has a cover (this page) which should not be opened till the invigilator gives signal to open it at the commencement of the examination. As soon as the signal is received you should tear the right side of the booklet cover carefully to open the booklet. Then proceed to answer the questions.
2. This Question Booklet contains 200 questions. Prior to attempting to answer the candidates are requested to check whether all the questions are there in series without any omission and ensure there are no blank pages in the question booklet. In case any defect in the Question Paper is noticed it shall be reported to the Invigilator within first 10 minutes.
3. Answer all questions. All questions carry equal marks.
4. You must write your Register Number in the space provided on the top right side of this page. Do not write anything else on the Question Booklet.
5. You will also encode your Register Number, Subject Code, Question Booklet Sl. No. etc. with Blue or Black ink Ball point pen in the space provided on the side 2 of the Answer Sheet. If you do not encode properly or fail to encode the above information, your Answer Sheet will not be evaluated.
6. Each question comprises *four* responses (A), (B), (C) and (D). You are to select ONLY ONE correct response and mark in your Answer Sheet. In case you feel that there are more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each question. Your total marks will depend on the number of correct responses marked by you in the Answer Sheet.
7. In the Answer Sheet there are four circles (A), (B), (C) and (D) against each question. To answer the questions you are to mark with Ball point pen ONLY ONE circle of your choice for each question. Select one response for each question in the Question Booklet and mark in the Answer Sheet. If you mark more than one answer for one question, the answer will be treated as wrong. e.g. If for any item, (B) is the correct answer, you have to mark as follows :  

(A) ● (C) (D)
8. You should not remove or tear off any sheet from this Question Booklet. You are not allowed to take this Question Booklet and the Answer Sheet out of the Examination Hall during the examination. After the examination is concluded, you must hand over your Answer Sheet to the Invigilator. You are allowed to take the Question Booklet with you only after the Examination is over.
9. The sheet before the last page of the Question Booklet can be used for Rough Work.
10. Failure to comply with any of the above instructions will render you liable to such action or penalty as the Commission may decide at their discretion.
11. Do not tick-mark or mark the answers in the Question booklet.

SEAL

[Turn over

1. The function of B Lymphocyte is  
(A) Provide cell mediated immunity  
 (B) Humoral immunity  
(C) Rejection of transplanted organs  
(D) Removal of antigens in acute inflammation
  
2. Which molecule cannot cross the blood-brain barrier?  
(A) Glucose  
(B) Protein  
(C) Potassium  
 (D) Urea
  
3. The Glomerular Filtration Rate (GFR) of normal healthy adult is  
(A) 50 ml/min  
(B) 100 ml/min  
 (C) 130 ml/min  
(D) 180 ml/min
  
4. Which of the following is unmatched according to their sensory functions?  
(A) Tongue and nose – Chemosensory  
(B) Ears – Organ of corti  
(C) Nose – Olfactory nerve  
 (D) Eyes – Maxillary nerve
  
5. Which of the following is the precursor of Vitamin D?  
(a) Glycolipid  
(b) Cholesterol  
(c) Ergosterol  
(d) Cephalins  
(A) (a) is correct but not (b), (c) and (d)  
 (B) (b) is correct but not (a), (c) and (d)  
(C) (c) and (b) are incorrect  
(D) (d) is correct but not (a), (b) and (c)
  
6. Find the odd one out in case of co-factors and metabolic factors of enzymes?  
(A)  $Zn^{2+}$   
 (C) CoA  
(B)  $Mg^{2+}$   
(D) Mo
  
7. Which of the following hormones promotes the glycogen metabolism?  
 (A) Epinephrine  
(B) Non-epinephrine  
(C) Gluco corticoides  
(D) Mineralo corticoides

8. Match the list of symptoms with the list of particular electrolyte imbalance :

- | List I |                | List II |                    |
|--------|----------------|---------|--------------------|
| (a)    | Hypocalcemia   | 1.      | Paralysis          |
| (b)    | Hypomagnesemia | 2.      | Diarrhoea          |
| (c)    | Hypokalemia    | 3.      | Leg and foot cramp |
| (d)    | Hyperkalemia   | 4.      | Tetany             |

- |   | (a) | (b) | (c) | (d) |
|---|-----|-----|-----|-----|
| (A)                                     | 2   | 3   | 1   | 4   |
| (B)                                     | 3   | 1   | 4   | 2   |
| (C)                                     | 3   | 1   | 2   | 4   |
| <input checked="" type="checkbox"/> (D) | 4   | 3   | 1   | 2   |

9. Match it.

- | Wound drainage |                 | Color and Consistency |                              |
|----------------|-----------------|-----------------------|------------------------------|
| (a)            | Serous          | 1.                    | Red with blood, thin         |
| (b)            | Sanguinous      | 2.                    | Clear, light yellow, thin    |
| (c)            | Sero Sanguinous | 3.                    | Creamy, yellow, green, white |
| (d)            | Purulent        | 4.                    | Pink to light red            |

- |   | (a) | (b) | (c) | (d) |
|---|-----|-----|-----|-----|
| <input checked="" type="checkbox"/> (A) | 2   | 1   | 4   | 3   |
| (B)                                     | 1   | 2   | 3   | 4   |
| (C)                                     | 4   | 3   | 2   | 1   |
| (D)                                     | 1   | 3   | 2   | 4   |

10. What is the level of raise in the body temperature during ovulation?

- |  |          |
|--|----------|
| <input checked="" type="checkbox"/> (A) 1° F | (B) 5° C |
| (C) 3° F                                     | (D) 2° C |

11. The reasons for using the parenteral route to administer Medications include

- (A) Parenteral Medication lasts longer than an oral medication
- (B) It is the least expensive method
- (C) It is easier to measure an accurate dose
- (D) The parenteral route allows more rapid, absorption than the oral route

12. The left ureter is slightly longer than the right ureter because the

- (A) Left kidney is higher than the right
- (B) Right kidney is higher than the left
- (C) Left kidney performs more functions
- (D) Left ureter has a three layered wall

13. Match the following :

- | I                      |  | II                                       |  |
|------------------------|--|--|--|
| (a) Fecal Incontinence |  | 1. Cramping and Hyperactive bowel sounds |  |
| (b) Fecal Impaction    |  | 2. Involuntary elimination of feces      |  |
| (c) Flatulence         |  | 3. Large, hard, stool in folds of rectum |  |
| (d) Diarrhea           |  | 4. Accumulation of gas in GI tract       |  |

- |   |     |     |     |
|---|-----|-----|-----|
| (a)                                       | (b) | (c) | (d) |
| (A) 4                                     | 3   | 2   | 1   |
| (B) 3                                     | 2   | 4   | 1   |
| (C) 1                                     | 2   | 3   | 4   |
| <input checked="" type="checkbox"/> (D) 2 | 3   | 4   | 1   |

14. Which part of the brain regulates NREM sleep?

- (A) Pons
- (B) Basal forebrain
- (C) Hypothalamus
- (D) Amygdala

15. While instilling eye drops, instruct your patient to

- (A) Look down and away
- (B) Look up and away
- (C) Look straight a head
- (D) Look up and directly at the dropper

16. Which gait should you teach a patient who can bear weight on both legs?

- (A) Three point
- (B) Four point
- (C) Two point
- (D) Five point

17. The term 'Nurture' refers to the effect of one of the following on human development

- (A) Heredity
- (B) Environment
- (C) Food and Safety
- (D) Rewards

18. The person who harbours the pathogen without suffering from any ill effect of that is called
- (A) Source (B) Latent infection  
(C) Host ~~(D) Healthy carrier~~
19. The composition of Pentavalent vaccine is
- (A) Diphtheria, Pertusis, Tetanus, Cholera and OPV  
(B) Measles, Mumps, Rubella, Typhoid and Cholera  
~~(C) Diphtheria, Pertusis, Tetanus, Haemophilus influenza and Hepatitis B~~  
(D) Typhoid, Chickenpox, Measles, Rubella and Hepatitis B
20. The condition where bacteria circulate and multiply in the blood is called
- ~~(A) Bacteremia~~ (B) Pyemia  
(C) Septicemia (D) Fibrinolysins
21. Which one is not a main system files of MS DOS?
- (A) IO. Sys ~~(B) COMMAND. Sys~~  
(C) MS DOS. Sys (D) COMMAND. COM
22. Which of the following is related to Fifth Generation?
- (a) Company device based on artificial intelligence  
(b) Very large scale integrated  
~~(c) Only (a) is the correct answer~~ (B) Only (b) is the correct answer  
(C) Both (a) and (b) are correct (D) Both (a) and (b) are wrong answers
23. Which one of the following is not a statistical package?
- (A) EPI - INFO (B) MICROSIRIS  
(C) LISP - STAT ~~(D) SSI~~
24. The shortcut key used to insert a new slide in MS Powerpoint is
- ~~(A) Ctrl + M~~ (B) Ctrl + N  
(C) Ctrl + Q (D) Ctrl + S



29. Reed Sternberg cell is the Hallmark in which disease

- (A) Hodgkin's disease (B) Non Hodgkin's Lymphoma  
(C) Multiple Myeloma (D) Burkitt's Lymph

30. The clinical features of Portal Hypertension are the following :

- a. Splenomegaly  
b. Caput medusae  
c. Fruit breath odour  
d. Thrombocytopenia

- (A) a, b and c (B) a, c and d  
 (C) a, b and d (D) a, b, c and d

31. Urge incontinence, incomplete bladder emptying – Bladder/Sphincter incoordination are the features of which dys functions.

- (A) Atonic Bladder  (B) Hypertonic Bladder  
(C) Flaccid Bladder (D) Cortical Lesion

32. Match List I with List II and select the correct answer using the codes given below the lists :

List I		List II	
(a) Rhonchi		1. high pitched squeaking or musical sounds	
(b) Wheezes		2. discontinuous, high-pitched sounds	
(c) Stridor		3. snoring or rattling sounds from obstruction of large airways	
(d) Crackles		4. musical or crowing sound from partial obstruction of Larynx or Trachea	

- (A) 3 1 4 2  
(B) 1 2 4 3  
(C) 2 4 3 1  
(D) 4 2 3 1

33. Which of the statements given below is/are true about Antigen-specific immunoglobulin E (IgE) in allergic Rhinitis?
- (A) releases histamine and prostaglandins
  - (B) maintains the inflammatory response
  - (C) produced as a result of initial exposure to an allergen
  - (D) causes infiltration of inflammatory cells into the nasal tissue
34. An immediate interventions during an injury to muscle or joint include the following
- I. Rest to affected part
  - II. applying ice compress to the injured area
  - III. compressing the involved extremity
  - IV. elevating the extremity
- (A) I, II and III
  - (B) II, III and IV
  - (C) I, III and IV
  - (D) I, II, III and IV
35. Hemophilia is a \_\_\_\_\_ disorder.
- (A) X linked dominant
  - (B) X linked recessive
  - (C) Autosomal dominant
  - (D) Autosomal recessive
36. In which condition the number of eosinophils is increased?
- (A) allergic conditions
  - (B) increase in the level of calcium
  - (C) decrease in the level of sodium
  - (D) increase in the level of potassium
37. Aspirin prolongs bleeding time by inhibiting the synthesis of
- (A) clotting factors in liver
  - (B) prostacyclin in vascular endothelium
  - (C) cyclic AMP in platelets
  - (D) Thromboxane A<sub>2</sub> in platelets

38. Match the following :

Part I		Part II	
(a) Live Vaccine		1. Typhoid	
(b) Killed Vaccine		2. Rubella	
(c) Toxoids		3. Rabies	
(d) Antisera		4. Diphtheria	

	(a)	(b)	(c)	(d)
<input checked="" type="checkbox"/> (A)	2	1	4	3
(B)	4	2	3	1
(C)	3	4	2	1
(D)	2	4	1	3

39. Vande Mataram Scheme is an integral part of

- (A) 20 point programme (B) Minimum needs programme  
 (C) RCH programme (D) Nutritional programme

40. NRHM was launched in the year of

- (A) 2004 (B)  2005  
(C) 2006 (D) 2007

41. The occupational disease caused by inhalation of sugar-cane dust is

- (A) Silicosis (B) Anthracosis  
(C) Byssinosis  (D) Bagassosis

42. Primordial prevention means prevention of

- (A) Infections (B) Complications  
(C) Diseases  (D) Risk factors

43. The following are the components of MCH EXCEPT

- (A) Occupational health  (B) Care of mentally retarded children  
(C) School health (D) Care of children in special settings

44. Cornea and conjunctiva will become dry in
- (A) Keratomalacia (B) Bitot's Spot  
 (C) Xerophthalmia (D) Night Blindness
45. Arrange the Demographic cycle
- I. High stationary stage  
 II. Early expanding stage  
 III. Late expanding stage  
 IV. Low stationary stage  
 V. Decline stage
- (A) I, II, III, IV, V (B) I, III, II, IV, V  
 (C) I, V, IV, III, II (D) IV, III, II, I, V
46. Malaria is a
- (A) Zoonotic Disease (B) Viral Disease  
 (C) Bacterial Disease  (D) Protozoal Disease
47. Point out the wrong one in the following measurements in epidemiology
- (A) Measurement of mortality  
 (B) Measurement of disability  
 (C) Measurement of nurse-patient ratio  
 (D) Measurement of natality
48. Find the odd one in the following responses :
- Following are the examples of live vaccines
- (A) BCG (B) Measles  
 (C) Oral Polio (D) Tetanus
49. An effective anti TB drug against intracellular as well as extracellular bacilli is,
- (A) INH (B) Streptomycin  
 (C) Rifampicin (D) Pyrazinamide

50. The teaching directed towards creating/promoting an interest in learning is known as
- (A) Principle of creativity
  - (B) Principle of motivation
  - (C) Principle of training
  - (D) Principle of reinforcement
51. Major approaches in problem solving are
- (A) Inductive, Deductive, Active, Analytic
  - (B) Inductive, Deductive, Analytic, Synthetic
  - (C) Inductive, Deductive, Initiative, Synthetic
  - (D) Inductive, Deductive, Purposive, Synthetic
52. Arrange the stages of team growth
- (A) Performing, Norming, Storming and Forming
  - (B) Forming, Storming, Norming and Performing
  - (C) Storming, Norming, Forming and Performing
  - (D) Norming, Forming, Performing and Storming
53. Normal coping strategies are activated in the following phase of crisis
- (A) Phase I – Establishing relationship
  - (B) Phase II – Assessment
  - (C) Phase IV – Intervention
  - (D) Phase V – Termination
54. OSCE means
- (A) Objective Structured Clinical Examination
  - (B) Observation Structured Clinical Examination
  - (C) Objective Subjective Clinical Examination
  - (D) Observation Subject Course Examination
55. A student nurse uses the formula to calculate the daily protein requirements of a patient. It describes the following category of cognitive domain.
- (A) Comprehension
  - (B) Application
  - (C) Analysis
  - (D) Synthesis



62. Match List I with list II and select the correct answer using the codes given below the lists.

List I

List II

- |                               |   |
|-------------------------------|---|
| (a) Infant mortality rate     | 1. Deaths of children aged under 5 years/1000 live births     |
| (b) Perinatal mortality rate  | 2. Deaths of children under 28 days of birth/1000 live births |
| (c) Neonatal mortality rate   | 3. Late fetal and early neonatal deaths/1000 live births      |
| (d) Under five mortality rate | 4. Deaths of children less than one year/1000 live births     |

- |   | (a) | (b) | (c) | (d) |
|---|-----|-----|-----|-----|
| (A)                                     | 1   | 2   | 3   | 4   |
| (B)                                     | 2   | 3   | 4   | 1   |
| <input checked="" type="checkbox"/> (C) | 4   | 3   | 2   | 1   |
| (D)                                     | 3   | 2   | 4   | 1   |

63. Three remarkable components of Integrated Management of Neonatal and Childhood Illness (IMNCI) are

1. Improvement of case management skills of health care providers
  2. Provision of essential drugs supplies
  3. Integration of child health services
  4. Optimization of family and community practices in relation to child health
- (A) 1, 2, 3                      (B) 2, 3, 4  
(C) 1, 3, 4                       (D) 1, 2, 4

64. Spot the correct statement in terms of "Epispadias".

It is an abnormal urethral opening on the

- (A) ventral aspect of the penis                      (B) urethral serotal junction  
(C) shaft of the penis                       (D) dorsal aspect of the penis

65. The causative organism for Varicella is

- (A) Corynebacterium diphtheriae                      (B) C.tetani  
(C) Bordetella pertusis                       (D) Varicella zoster virus

66. Certain code drugs which can be administered through tracheal tube for children in an emergency
- (A) Dopamine, Dobutamine, Adenosine, Atropine
  - (B) Naloxone, Dopamine, Glucose, Adenosine
  - (C) Glucose, Atropine, Ipecac, Charcoal
  - (D) Lidocaine, Epinephrine, Atropine, Naloxone
67. A child with typical facial features such as low nasal bridge with short upturned nose, flattened mid face, long philtrum with narrow upper lip is diagnosed to have
- (A) Fetal Alcohol syndrome
  - (B) Autism spectrum disorder
  - (C) Down syndrome
  - (D) Tourette syndrome
68. "Universal children's day"-November 14<sup>th</sup> was initiated by
- (A) WHO
  - (B) UNICEF
  - (C) ICDS
  - (D) NGO
69. Identify the wrong answer behavioral problems of childhood includes
- (A) Breath-holding spell
  - (B) Temper Tantrums
  - (C) Thumb sucking
  - (D) Failure to thrive
70. Hook worms are otherwise termed as.
- (A) Oxyuriasis
  - (B) Ancylostomiasis
  - (C) Ascariasis
  - (D) Teniasis
71. Hernial protrusion of the meninges through a midline defect in the posterior vertebral arch is known as
- (A) Meningocele
  - (B) Spina bifida
  - (C) Spina Bifida cocculta
  - (D) Menigomyelocele
72. The optimal timing for surgical correction of cleft-lip is
- (A) 2-3 months
  - (B) 6-7 months
  - (C) 11-12 months
  - (D) 14-15 months

73. Match the developmental stage with their psycho social development according to Eric Ericksol

- | A   |                   | B  |                   |
|-----|-------------------|----|-------------------|
| (a) | Infancy           | 1. | sense of industry |
| (b) | School age        | 2. | sense of intimacy |
| (c) | Early adolescence | 3. | sense of trust    |
| (d) | Late adolescence  | 4. | sense of identity |

- |   | (a) | (b) | (c) | (d) |
|---|-----|-----|-----|-----|
| (A)                                     | 3   | 2   | 1   | 4   |
| (B)                                     | 3   | 2   | 4   | 1   |
| <input checked="" type="checkbox"/> (C) | 3   | 1   | 4   | 2   |
| (D)                                     | 3   | 4   | 2   | 1   |

74. Which statement by a person with paranoid schizophrenia most clearly indicates the antipsychotic medication is effective?

- (A) I used to hear scary voices but now I don't hear them anymore
- (B) My medicine is working fine. I'm not having any problems
- (C) Sometimes it's hard for me to fall asleep, but I usually sleep all night
- (D) I think some of the staff members don't like me. They're mean to me

75. Following are the dysfunctional behaviors associated with substance abuse

1. Manipulation
2. Impulsiveness
3. Anger
4. Acceptance

- |             |   |
|-------------|---|
| (A) 2, 3, 4 | <input checked="" type="checkbox"/> (B) 1, 2, 3 |
| (C) 1, 2, 4 | (D) 4, 3, 1                                     |

76. The Misinterpretation of a real stimuli within the environment is called as

- (A) Hallucination
- (C) Illusion
- (B) Delusion
- (D) Obsession

77. A nurse suggests activities for a 7-yr old child with autistic disorder. Which activity is most likely to engage this child?
- (A) Playing checkers with another child
  - (B) Building with blocks alone
  - (C) Playing kickball with a small group of children
  - (D) Having a birthday party with 6 to 8 other children
78. In managing a client with Pre-edampsia rest is important for the following reason EXCEPT
- (A) Increases renal blood flow
  - (B) Increases uterine blood flow
  - (C) Decreases Blood pressure
  - (D) Decreases placental blood flow
79. The process of alteration in the shape of the forecoming head while passing through the resistant birth passage during labour is called as
- (A) Caput succedaneum
  - (B) Cephal hematoma
  - (C) Moulding
  - (D) Cranial injury
80. Which of the following instrument will be used in recording of uterine contractions from various parts of the uterus?
- (A) Cardiotocography
  - (B) Tocodynamometer
  - (C) Tocometry
  - (D) Topography
81. A newborn born for a HIV infected mother is treated with
- (A) Zidovudine syrup 2 mg/kg
  - (B) Zidovudine syrup 1 mg/kg
  - (C) Zidovudine syrup 3 mg/kg
  - (D) Zidovudine syrup 4 mg/kg
82. The progressive measurement of the pregnancy and calculation of gestational age by height of the fundus is done by
- (A) Naegle's rule
  - (B) Robert's rule
  - (C) Mc Donald's rule
  - (D) Simson's rule

83. Find out the correct pair regarding nerve injuries that occur during birth
- (A) Facial Palsy — 7<sup>th</sup> cervical nerve root  
 (B) Brachial Palsy — 6<sup>th</sup> and 7<sup>th</sup> cervical nerve root  
~~(C) Erb's Palsy — 5<sup>th</sup> and 6<sup>th</sup> cervical nerve root~~  
 (D) Klumpke's Palsy — 5<sup>th</sup> cervical nerve root
84. The most crucial time when structural malformations can occur in the fetus is
- (A) Just before implantation (B) Between fertilization and implantation  
~~(C) Embryonic period~~ (D) Fetal period
85. The instrument which is used to know the position and length of the uterine cavity is called
- (A) Uterine curette ~~(B) Uterine sound~~  
 (C) Uterine forceps (D) Uterine retractor
86. Consider the statements:  
 Regarding the cardinal movements during normal labour and find out which is in sequential order?
- I. Engagement, descent, internal rotation, crowning, flexion extension  
 II. Engagement, descent, flexion, crowning, restitution, lateral flexion  
 III. Engagement, descent, internal rotation, crowning, extension  
 IV. Engagement, descent, flexion, internal rotation, crowning, extension, restitution, external rotation, lateral flexion
- Of the statements
- (A) I alone is correct (B) I and II are correct  
 (C) I, II and III are correct ~~(D) IV alone is correct~~
87. Match List I correctly with List II and select your answer using the codes given below :
- | List I            |  | List II   |  |
|-------------------|--|---|--|
| (a) Craniotomy    |  | 1. To enlarge the pelvic capacity               |  |
| (b) Cleidotomy    |  | 2. Perforation on the fetal head                |  |
| (c) Symphysiotomy |  | 3. Removal of thoracic and abdominal contents   |  |
| (d) Evisceration  |  | 4. Reduction in the bulk of the shoulder girdle |  |
- 
- |                | (a) | (b) | (c) | (d) |
|----------------|-----|-----|-----|-----|
| (A)            | 1   | 2   | 3   | 4   |
| (B)            | 3   | 4   | 2   | 1   |
| (C)            | 4   | 3   | 1   | 2   |
| <del>(D)</del> | 2   | 4   | 1   | 3   |

88. Women having their first pregnancy at or above the age of 30 years are called as
- (A) Grand multi para. (B) Grand multi gravida  
 (C) Elderly primi para  (D) Elderly primi gravida
89. A study type concerned with lived experiences and is in approach to learning about what peoples life experience are
- (A) Epidemiological (B) Experimental  
 (C) Quasi experimental  (D) Phenomenological
90. Organization of contents in qualitative studies uses the following format.
- (A) DIMRA  (B) IMRAD  
 (C) MIRAD (D) AIMRD
91. Gender, age-class, religion, type of disease and blood group are measured on
- (A) Nominal scale of measurement  
 (B) Ordinal scale of measurement  
 (C) Interval scale of measurement  
 (D) Ratio scale of measurement
92. The formula  $\sum \frac{(O - E)^2}{E}$  is used to calculate
- (A) t-test  (B) Chi-square  
 (C) Correlation coefficient (D) Standard deviation
93. IRB is an acronym for which of the following?
- (A) Internal Review Board  
 (B) Institutional Review Board  
 (C) Institutional Rating Board  
 (D) Internal Request Board
94. Selection of samples from every K<sup>th</sup> case from a list is called
- (A) Stratified sampling (B) Cluster sampling  
 (C) Systematic sampling (D) Purposive sampling

95. The primary muscles of inspiration
- (A) Abdominals and external intercoastal
  - (B) Diaphragm and external intercoastal
  - (C) Abdominals and internal intercoastal
  - (D) Diaphragm and internal intercoastal
96. Clotting can be prevented by using
- (A) antiemetics
  - (C) anticoagulants
  - (B) antibiotics
  - (D) analgesics
97. Which arrangement of gastro intestinal layer is correct from inside out?
- (A) serous, mucosa, submucosa and muscular layer
  - (B) mucosa, submucosa, serous and muscular layer
  - (C) mucosa, submucosa, muscular and serous
  - (D) muscular, serous, submucosa and mucosa
98. Match the following :
- |                                      |                     |
|--------------------------------------|---------------------|
| (a) Pleural cavity filled with blood | 1. Pneumothorax     |
| (b) Pleural cavity filled with pus   | 2. Pleural effusion |
| (c) Pleural cavity filled with air   | 3. Heamothorax      |
| (d) Pleural cavity filled with fluid | 4. Pyothorax        |
- |   | (a) | (b) | (c) | (d) |
|---|-----|-----|-----|-----|
| (A)                                     | 4   | 2   | 3   | 1   |
| <input checked="" type="checkbox"/> (B) | 3   | 4   | 1   | 2   |
| (C)                                     | 2   | 3   | 4   | 1   |
| (D)                                     | 4   | 1   | 2   | 3   |
99. Duration of one cardiac cycle in a normal person at rest is
- (A) 0.3 sec
  - (C) 0.8 sec
  - (B) 0.5 sec
  - (D) 0.10 sec
100. The destruction of donor red cells by anti D antibodies formed from previous exposure is called
- (A) Rh incompatibility
  - (B) Hemolytic anemia
  - (C) Erythroblastosis fetals
  - (D) Agglutination reaction in Coomb's test

101. Which one of the following is a functionally active form of vitamin D?
- (A) Cholecalciferol (B) Ergocalciferol  
(C) Dehydrocholesterol (D)  Calcitriol
102. In prolonged hyperglycemia, \_\_\_\_\_ accumulates in the tissues, resulting in microvascular complications.
- (A) Ketons (B) Lactic acid  
 (C) Sorbitol (D) Glucose
103. The inhibition of glycolysis by oxygen is known as
- (A) Bohr effect (B) Crab tree effect  
(C) Leubering effect (D)  Pasteur effect
104. Azotemia is a symptom seen in
- (A) Diabetes mellitus (B)  Acute renal failure  
(C) PEM (D) Scurvy
105. Which one of the following anticoagulant binds with  $Ca^{2+}$  and prevents blood clotting?
- (A) Heparin (B)  Oxalate  
(C) Protein C (D) Warfarin
106. Salivary amylase becomes inactive in the stomach primarily due to
- (A) Inactivation by low pH (B) Degradation by gastric pepsin  
(C) Inhibition by  $Cl^-$  (D) Inhibition by peptides
107. Match List I with List II and select the correct answer using the codes given below the list.
- | List I                                  |                |     |     | List II |                     |  |  |
|---|----------------|-----|-----|---------|---------------------|--|--|
| (a)                                     | Allopurinol    |     |     | 1.      | Immuno suppression. |  |  |
| (b)                                     | 5 fluorouracil |     |     | 2.      | AIDS                |  |  |
| (c)                                     | didanosin      |     |     | 3.      | Gout                |  |  |
| (d)                                     | Azothioprine   |     |     | 4.      | Cancer              |  |  |
| (a)                                     | (b)            | (c) | (d) |         |                     |  |  |
| <input checked="" type="checkbox"/> (A) | 2              | 3   | 4   | 1       |                     |  |  |
| (B)                                     | 4              | 3   | 2   | 1       |                     |  |  |
| (C)                                     | 3              | 4   | 2   | 1       |                     |  |  |
| (D)                                     | 4              | 3   | 1   | 2       |                     |  |  |

108. The partial or total separation of wound layers is termed as  
(A) Evisceration (B) Dehiscence  
(C) Pressure sore (D) Infection
109. Infectious hospital waste is disposed by the process of  
(A) Autoclaving (B) Deep Burial  
(C) Incineration (D) Shredding
110. Obesity places patients at an increased surgical risk because of which of the following factors?  
(A) Risk for bleeding is increased  
(B) Ventilatory capacity is reduced  
(C) Fatty tissue has a poor blood supply  
(D) Metabolic demands are increased
111. Lateral movement of the eyeball is controlled by the following nerve  
(A) Auditory (B) Optic  
(C) Facial (D) Abducens
112. The assessment of wound indicates healing is occurring when  
(A) The centre tissue is white  
(B) Bleeding has stopped  
(C) There is no further drainage from wound  
(D) Pink granulation tissue is visible
113. Massage promotes increased circulation and softening of connective tissues. It also has which effect?  
(A) Narrows blood vessels (B) Eases muscle spasms  
(C) Causes hyper ventilation (D) Widens blood vessels
114. Which type of wound closes by primary intention?  
(A) Second degree burn (B) Pressure ulcer  
(C) Traumatic injury (D) Surgical incision

115. Rorschach Ink Blot test, thematic apperception test are based on the phenomenon of  
 (A) Projection (B) Identification  
(C) Transference (D) Observation
116. Individuals rate attitudes using a pair of opposite adjectives in the  
(A) Thurstone scale  (B) Semantic differential scale  
(C) Interview method (D) Likert scale
117. Which of the following is an example of a primary prevention programme in mental health?  
(A) Efforts to make the disorders less debilitating  
(B) Improving the study skills of school drop out  
 (C) Genetic counselling  
(D) Telephone counselling for those contemplating suicide
118. Consider the following stages of personality by Freud  
1. Oral  
2. Anal  
3. Latency  
4. Phallic  
5. Genital  
What is the correct order of stages by Freud?  
 (A) 1 - 2 - 3 - 4 - 5 (B) 2 - 1 - 3 - 4 - 5  
(C) 1 - 2 - 4 - 3 - 5 (D) 2 - 1 - 4 - 5 - 3
119. The drug of choice for treatment of leptospirosis is  
 (A) Gentamycin and Kanamycin (B) Sulfonamides with cotrimaxazole  
(C) Penicillin and tetracyclines (D) Tobramycin and cephalosporin
120. An immunoglobulin which crosses the placenta is  
I. Ig G  
II. Ig E  
III. Ig M  
IV. Ig A  
(A) I and III  (B) I only  
(C) I and IV (D) II and IV

121. Which of the following statement is not true?
- (A) Transistors are much smaller
  - (B) Transistors produce low heat
  - (C) Transistors were fast in conducting electricity
  - (D) Transistors were used in radio and other elements
122. The concept used for father – dominated family
- (A) Patrilocal family
  - (B) Patriarchal family
  - (C) Patrilineal family
  - (D) Conjugal family
123. Find the odd statement :
1. Casual, Conventional, Expressive
  2. The Contagion theory, The emergent theory
  3. Mob, Crowd, Public
  4. Active Crowd, Audience, Public opinion
- (A) 3 and 4 are odd statements
  - (B) 1 and 2 are odd statements
  - (C) 2 and 4 are odd statements
  - (D) Only 2 odd statement
124. Sociology is important for Nursing practice because Nurses are, except
- (A) critically involved in making sense and giving purpose to life, illness and death
  - (B) able to discriminate people by culture
  - (C) confronting problems which is controversial in society
  - (D) engaged in the study of human societies
125. The form of marriage in which one man marries more than one woman at a given time
- (A) Fraternal polyandry
  - (B) Polyandry
  - (C) Polygyny
  - (D) Monogamy
126. The causes of population growth are except
- (A) Widening gap between birth and death rates
  - (B) Low age at marriage
  - (C) High Literacy
  - (D) Religious attitude towards family planning



133. In the post operative period following a hip replacement, the patient should perform which of the following exercises to prevent DVT.

- I. Leg raising
- II. Dorsiflexion and extension of the foot
- III. Flexion and extension of the knee joint
- IV. Quadriceps - Sothing

- (A) I
- (B) II
- (C) III
- (D) IV

134. What is the priority teaching during Thoracentesis?

- (A) Not moving or coughing
- (B) Observe for changes in skin colour
- (C) Lying on the unaffected site for 48 to 72 hrs
- (D) Checking the dressing for bleeding

135. Baroreceptors are located in the

- 1. Right atrium
- 2. Carotid artery
- 3. Left atrium
- 4. Aortic arch

- (A) 1, 2, 3
- (B) 2, 3, 4
- (C) 1, 3, 4
- (D) 1, 2, 3, 4

136. Match List I with List II and select the correct answer using the codes given below the lists :

- | List I             |  | List II   |  |
|--------------------|--|---|--|
| (a) Rovsing's sign |  | 1. Pain elicited in the calf when the foot is dorsiflexed   |  |
| (b) Psoas sign     |  | 2. Pain that occurs with passive internal rotation of the flexed right thigh with the patient on supine |  |
| (c) Obturator sign |  | 3. Pain elicited by palpation of left lower quadrant, causes pain in the right lower quadrant           |  |
| (d) Homan's sign   |  | 4. Pain that occurs upon slow extension of right thigh with the pt. lying on the left side              |  |

- |       |     |     |     |
|-------|-----|-----|-----|
| (a)   | (b) | (c) | (d) |
| (A) 3 | 4   | 2   | 1   |
| (B) 4 | 2   | 1   | 3   |
| (C) 2 | 1   | 3   | 4   |
| (D) 1 | 3   | 4   | 2   |

137. Match

List I

- (a) Levodopa
- (b) Sulindac
- (c) Dipivefrine
- (d) Sulfasalazine

List II

- 1. Sulfide metabolite
- 2. 5-Amino salicylic acid
- 3. Dopamine
- 4. Epinephrine

- |   | (a) | (b) | (c) | (d) |
|---|-----|-----|-----|-----|
| <input checked="" type="checkbox"/> (A) | 3   | 1   | 4   | 2   |
| (B)                                     | 1   | 2   | 3   | 4   |
| (C)                                     | 4   | 3   | 2   | 1   |
| (D)                                     | 1   | 4   | 3   | 2   |

138. The most suitable laxative for a patient with spastic constipation is

- (A) Dietary fibre
- (B) Bisacodyl
- (C) Castor oil
- (D) Phenolphthalein

139. Which drug is preferred for prophylactic therapy of mild to moderate asthma?

- (A) Montelukast
- (B) Ipratropium bromide
- (C) Theophylline
- (D) Formoterol

140. Reye's syndrome is the complication of

- (A) Polio myelitis
- (B) Chickenpox
- (C) Pertusis
- (D) Diphtheria

141. AIDS can be confirmed by

- (A) Antigen detection test
- (B) ELISA test
- (C) Western Blot Test
- (D) Kampass test

142. Very wide gap between the birth and death rates is called as
- (A) Life expectancy gap (B) Age gap  
 (C) Population gap  (D) Demographic gap
143. The census count is taken only once in \_\_\_\_\_ years
- (A) 5  (B) 10  
 (C) 15 (D) 20
144. The most useful therapy in treating children with psychiatric disorder is
- (A) Behavior therapy  
 (B) Psycho therapy  
 (C) Cognitive therapy  
 (D) Pharmaco therapy
145. Among the following which is matched correctly .
- |    |                 |   |                     |
|----|-----------------|---|---------------------|
| 1. | Acute Illness   | - | Short term symptoms |
| 2. | Etiology        | - | Process of changes  |
| 3. | Adaptation      | - | Health maintenance  |
| 4. | Holistic health | - | Self care           |
- (A) 1 (B) 2  
 (C) 3 (D) 4
146. Among the following which is matched wrongly :
- (A) Domestic refuse - Vegetable Peelings  
 (B) Street Refuse - Markets  
 (C) Stable Refuse - Metal scrapping  
 (D) Constructional refuse - Stone pieces

147. Point out the wrong option in the following :

Indicators helping for monitoring progress towards health for all.

- (A) Health policy indicators (B) Social and economic indicators  
(C) Health status indicators (D) Environmental indicators

148. What is the Housing standards prescription of floor space area for one person?

- (A) 100 sq ft (B) 150 sq ft  
(C) 200 sq ft (D) 250 sq ft

149. Measles is otherwise called as

- (A) Rubeola (B) Rubella  
(C) Small pox (D) Varicella

150. Three tier structure of rural local government in India is

- (A) Community development block (B) Taluks  
(C) Town (D) Panchayat Raj

151. The specific instructions that has to be followed by the community health nurse during 'Home Visit' is called as

- (A) Prescription (B) Job description  
(C) Standing orders (D) Procedure manual

152. Mid Arm circumference is measured in the age group of \_\_\_\_\_ children.

- (A) 0-1 years (B) 1-5 years  
(C) 5-10 years (D) 10-15 years

153. Spot the incorrect statement regarding principles of learning according to JTFSL (Joint Task Force on Student Learning)

- (A) Learning is an active process  
(B) Learning is an outcome of stimulation and motivation of the learner  
(C) Learning is an act of self-awareness  
(D) Learning is an act of self-identification

154. Which of the following urinary stone is formed by the bacterial enzyme, urease?
- (A) Uric acid stone (B) Calcium stone  
(C) Oxalate stone (D)  Struvite stone
155. Identify the odd one out
- (A) Morphine (B) Phenobarbital  
(C)  Noradrenaline (D) Fentanyl
156. A burns victims with 90% burns in a multistoried shopping complex fire accident is categorized to the following colour code in triageing
- (A)  black (B) red  
(C) yellow (D) orange
157. The cardinal signs of Parkinson's disease are
- (A)  tremor, bradykinesia and muscles rigidity  
(B) paresis, anaesthesia and muscles spasticity  
(C) chorea and muscles hypotonia  
(D) tremor, ataxia and muscle hypotonia
158. A man who met with a motor vehicle accidents reveals bone fragments in the X-ray of femur. What type of fracture it is?
- (A) Avulsion (B) Compressed  
(C)  Comminuted (D) Open
159. Which of the following orders should a nurse question if a client is on radiation therapy?
- (A) Analgesics before meals (B) Saline rinses every 2 hours  
(C)  Aspirin every four hours (D) Bland diet
160. A patient has sustained burns to anterior chest and anterior abdomen. Using rule of nine how much of patient's body surface area has been affected?
- (A) 9% (B)  18%  
(C) 27% (D) 36%

161. A 30 year old lady with normal systolic blood pressure, increased heart rate, slightly delayed capillary refill and cool, pale skin. What is the stage of shock is the lady in?

(A) decompensated stage

(B) compensatory stage

(C) hypotensive stage

(D) progressive stage

162. A client taking cyclophosphamids (cytoxan) for treatment of lymphoma. The nurse should be very cautious in administering the medication because this drug pores the fatal side effect of

(A) Alopecia

(B) Myeloma

(C) Central nervous system toxicity

(D) Haemorrhagic cyst

163. An infant weighing 5 kgs is to receive 750 mg of an antibiotic 3 times (tid) in a 24 hour period. The available antibiotic concentration is 125 mg per 5 ml. How many ml would the nurse administer with each dose?

(A) 5 ml

(B) 10 ml

(C) 15 ml

(D) 20 ml

164. Match the following and write the code given as below :

(a) Typhoid fever

1. Pharyngeal paralysis

(b) Whooping cough

2. Intestinal perforation

(c) Diphtheria

3. Atelectasis

(d) Mumps

4. Deafness

(a) (b) (c) (d)

(A) 3 2 1 4

(B) 2 3 4 1

(C) 2 4 3 1

(D) 2 3 1 4

165. Thrombocytopenia means
- (A) decreased number of platelets      (B) increased number of platelets  
(C) decreased number of leukocytes      (D) increased number of leukocytes
166. Grasping of object by closing fingers around it is by
- (A) gagging reflex       (B) palmer grasp  
(C) rooting reflex      (D) doll's eye
167. According to National immunization schedule measles vaccine should be given at the age of
- (A) 3 months      (B) 1½ year  
(C) 2 years       (D) 9 months
168. Point out the incorrect statement.
- (A) growth and development is continuous and orderly  
(B) growth and development is complex yet predictable  
 (C) growth and development is steady in rate at all stages  
(D) growth and development is unique and differs from individual to individual
169. The milk that is secreted at the starting of regular breast feeding that contains more proteins and sugar is known as
- (A) Mature milk       (B) Fore milk  
(C) Hind milk      (D) Transitional milk
170. The clinical features of an infant with hydrocephalus are
1. Bulged tensed Anterior fontanelle
  2. Setting - sun sign
  3. Macewer sign
  4. Closed skull sutures
- (A) 1, 2 and 3      (B) 2, 3 and 4  
(C) 1, 3 and 4      (D) 2, 4 and 1

171. Daily requirement of calcium for an infant is

(A) 800 mg

(B) 100 mg

(C) 500 mg

(D) 200 mg

172. The process of functional and physiological maturation of the individual is known as

(A) Growth

(B) Maturation

(C) Intelligence

(D) Development

173. During the course of resuscitation, which of the following responses shows effectiveness of ventilation in the child

1. Adequacy of chest rise

2. Improved heart rate and pulse oximetry

3. Presence of increased abdominal rise

4. Improved color

(A) only 1 and 2

(B) 1, 2 and 4

(C) only 3 and 4

(D) 1, 2, 3 and 4

174. Full thickness (third degree) burns involves

1. Fascia and bones

2. Subcutaneous tissue

3. Nerve endings

4. Epidermis and dermis

(A) 1, 2, 4

(B) 2, 3, 4

(C) 1, 3, 4

(D) 1, 2, 3

175. Malignant tumor of bone arising in medullary tissue is called

(A) Osteosarcoma

(B) Ewing's tumor

(C) Osteomyelitis

(D) Genu valgum

176. A positive reinforcer

- (A) Increases the probability that a behaviour will recur
- (B) Decreases the probability that a behaviour will recur
- (C) Always results in positive behaviour
- (D) Has nothing to do with modifying behaviour

177. Ms. 'M' is diagnosed with an obsessive compulsive disorder. She is consistently late for duty as a result of repetitively checking whether appliances are unplugged before leaving home. The most appropriate nursing diagnosis for Ms. 'M' is

- (A) Anxiety
- (B) Social isolation
- (C) Situational low self esteem
- (D) Deficient knowledge

178. Patient : "I cannot study. My mind keeps wandering"

Nurse : "You have trouble concentrating"

The above statements are example of the following therapeutic communication technique

- (A) Focusing
- (B) Restating
- (C) Exploring
- (D) Reflecting

179. An adult with major depression complains of severe sleep disturbances, daytime drowsiness and fatigability. How would the nurse classify this sleep problem?

- (A) Dyssomnia
- (B) Parasomnia
- (C) Secondary sleep disorder
- (D) Primary sleep disorder

180. A client says to the nurse, "Life doesn't have any joy in it anymore. Things I once did for pleasure aren't fun". How would the nurse document this complaint?

- (A) Dysthymia
- (B) Anhedonia
- (C) Euphoria
- (D) Psychomotor retardation

181. The Drugs used in schizophrenia are

1. Tab. Olanzapine
2. Tab. Risperidone
3. Tab. Imipramine
4. Tab. Clozapine

Choose the correct code

- (A) 1, 2 and 3 only
- (B) 1, 2 and 4 only
- (C) 3, 2 and 1 only
- (D) 3, 4 and 2 only

182. The binocular instrument providing a magnification to map the abnormal areas on the cervix is
- (A) Colposcope (B) Cystoscope  
(C) Colonoscope (D) Proctoscope
183. Death of a women while pregnant or within 42 days of the termination of pregnancy irrespective of the duration and the site of pregnancy is
- (A) MMR (B) NMR  
(C) MNR (D) MRR
184. When fetal kidney starts to produce urine?
- (A) 10<sup>th</sup> week onwards (B) 12<sup>th</sup> week onwards  
(C) 13<sup>th</sup> week onwards (D) 14<sup>th</sup> week onwards
185. The time required for a spermatogonium to develop into a mature spermatozoon is about
- (A) 41 days (B) 51 days  
 (C) 61 days (D) 71 days
186. The best contraceptive method to be adopted within 72 hours by a women who have had unprotected intercourse is
- (A) IUCD  (B) Morning - after pill  
(C) Norplant (D) Vaginal contraceptives
187. The best procedure to remove the embedded IUCD in the uterus with missing thread is
- (A) Hysteroscopy (B) Laproscopy  
(C) Cystoscopy (D) Laprotomy
188. The term "Phlegmasia alba dolens" refers to
- (A) Deep vein thrombosis  
(B) Varicose vein  
 (C) Retrograde extension of pelvic thrombophlebitis  
(D) Venous thromboembolism

189. Carry over effects are related to
- (A) Factorial design
  - (B) Pre test-post test design
  - (C) Solomon four groups design
  - (D) Cross over design
190. Which of the following is least likely to be a primary source?
- (A) A text book
  - (B) An article in a professional journal
  - (C) A dissertation
  - (D) A paper presented at a professional conference
191. Which one of the following is an activity of staff development EXCEPT?
- (A) Job orientation
  - (B) Induction training
  - (C) Continuing education
  - (D) Promotion
192. Which one of the following is a element of organizational behaviour EXCEPT?
- (A) People
  - (B) Environment
  - (C) Technical
  - (D) Outcome
193. The type of written report used in clinical practice is
- (A) Intake and output chart
  - (B) Interdepartmental report
  - (C) Sponge book
  - (D) Dispatch index ledger

194. Anaemia which is caused by lack of absorption of Vitamin B<sub>12</sub> due to lack of intrinsic factor is
- (A) Addisonian pernicious anaemia
  - (B) Dimorphic anaemia
  - (C) Aplastic anaemia
  - (D) Sickle cell anaemia
195. The encysted blood so collected in the pouch of Douglas is called
- (A) Intra ligamentary hematoma
  - (B) Diffuse intraperitoneal hemorrhage
  - (C) Secondary abdominal pregnancy
  - (D) Pelvic-hematocele
196. When applying forceps for a primigravida mother the traction (pull) required is estimated to be about
- (A) 13 kg
  - (B)  18 kg
  - (C) 14 kg
  - (D) 16 kg
197. Funis is otherwise called as
- (A) Umbilical artery
  - (B) Umbilical vein
  - (C) Umbilical cord
  - (D) Umbilicus
198. The formula used to calculate the estimated fetal weight is
- (A) Naegle's formula
  - (B) Johnson's formula
  - (C) Nelson's formula
  - (D) Jacobson's formula
199. The length of the fallopian tube is
- (A) 10.5 cm
  - (B) 9 cm
  - (C) 11 cm
  - (D) 10 cm
200. Fertilization almost always, occurs in the
- (A) Uterus
  - (B) Uterine tube
  - (C) Ampullary part of the uterine tube
  - (D) Interstitial part of the uterine tube

Sl. No. :

MCHN/15

Register  
Number

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2015  
NURSING  
(Degree Standard)

Time Allowed : 3 Hours]

[Maximum Marks : 300

Read the following instructions carefully before you begin to answer the questions.

IMPORTANT INSTRUCTIONS

1. This Booklet has a cover (this page) which should not be opened till the invigilator gives signal to open it at the commencement of the examination. As soon as the signal is received you should tear the right side of the booklet cover carefully to open the booklet. Then proceed to answer the questions.
2. This Question Booklet contains 200 questions. Prior to attempting to answer the candidates are requested to check whether all the questions are there in series without any omission and ensure there are no blank pages in the question booklet. **In case any defect in the Question Paper is noticed it shall be reported to the Invigilator within first 10 minutes.**
3. Answer all questions. All questions carry equal marks.
4. You must write your Register Number in the space provided on the top right side of this page. Do not write anything else on the Question Booklet.
5. You will also encode your Register Number, Subject Code, Question Booklet Sl. No. etc. with Blue or Black ink Ball point pen in the space provided on the side 2 of the Answer Sheet. If you do not encode properly or fail to encode the above information, your Answer Sheet will not be evaluated.
6. Each question comprises *four* responses (A), (B), (C) and (D). You are to select ONLY ONE correct response and mark in your Answer Sheet. In case you feel that there are more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each question. Your total marks will depend on the number of correct responses marked by you in the Answer Sheet.
7. In the Answer Sheet there are **four** circles (A), (B), (C) and (D) against each question. To answer the questions you are to mark with Ball point pen ONLY ONE circle of your choice for each question. Select one response for each question in the Question Booklet and mark in the Answer Sheet. If you mark more than one answer for one question, the answer will be treated as wrong. e.g. If for any item, (B) is the correct answer, you have to mark as follows :  
(A) ● (C) (D)
8. You should not remove or tear off any sheet from this Question Booklet. You are not allowed to take this Question Booklet and the Answer Sheet out of the Examination Hall during the examination. After the examination is concluded, you must hand over your Answer Sheet to the Invigilator. You are allowed to take the Question Booklet with you only after the Examination is over.
9. The sheet before the last page of the Question Booklet can be used for Rough Work.
10. Failure to comply with any of the above instructions will render you liable to such action or penalty as the Commission may decide at their discretion.
11. Do not tick-mark or mark the answers in the Question booklet.

SEAL