Entrance Exam

2024



QUESTION PAPER

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JEMScN-2024

4220002789
(Booklet Number)

Duration : 90 minutes **No. of MCQ : 100** **Full Marks : 100**

INSTRUCTIONS

1. All questions are of objective type having four answer options for each.
2. Each question carries 1 mark each and only one option is correct. In case of incorrect answer or any combination of more than one answer, ¼ marks will be deducted.
3. Questions must be answered on OMR sheet by darkening the appropriate bubble marked A, B, C or D.
4. Use only **Black/Blue ink ball point pen** to mark the answer by filling up of the respective bubbles completely.
5. Write Question Booklet number and your roll number carefully in the specified locations of the OMR sheet. Also fill appropriate bubbles.
6. Write your name (in block letter), name of the examination center and put your signature (as is appeared in Admit Card) in appropriate boxes in the **OMR sheet.**
7. The OMR sheet is liable to become invalid if there is any mistake in filling the correct bubbles for Question Booklet number/roll number or if there is any discrepancy in the name/ signature of the candidate, name of the examination center. The OMR sheet may also become invalid due to folding or putting stray marks on it or any damage to it. The consequence of such invalidation due to incorrect marking or careless handling by the candidate will be sole responsibility of candidate.
8. Candidates are not allowed to carry any written or printed material, calculator, pen, docu-pen, log-table, wristwatch, any communication device like mobile phones, bluetooth devices etc. inside the examination hall. Any candidate found with such prohibited items will be **reported against** and his/her candidature will be summarily cancelled.
9. Rough work must be done on the Question Booklet itself, Additional blank pages are given in the Question Booklet for rough work.
10. Hand over the OMR sheet to the invigilator before leaving the Examination Hall.
11. Candidates are allowed to take the Question Booklet after examination is over.

Signature of the Candidate : _____
(as in Admit Card)

Signature of the Invigilator : _____

SPACE FOR ROUGH WORK

(Carry 1 mark each. Only one option is correct. Negative marks :- $\frac{1}{4}$)

1. Which of the following muscular valve controls the flow of digestive juice from the hepatopancreatic duct to the duodenum ?
   (A) Sphincter of Oddi (B) Semilunar valve
   (C) Ileocaecal valve (D) Pyloric sphincter

2. What type of joint is at the base of the thumb ?
   (A) Saddle joint (B) Hinge joint (C) Condyloid joint (D) Pivot joint

3. Inhibition of gastric and stimulation of gastric, pancreatic, and bile secretions are controlled by hormones
   (A) gastrin, secretin, enterogastrone and cholecystokinin
   (B) enterogasterone, gastrin, pancreozymin and cholecystokinin
   (C) gastrin, enterogasterone, cholecystokinin and pancreozymin
   (D) secretin, enterogasterone, gastrin and enterokinin

4. A motor neuron stimulates a muscle fiber at _____.
   (A) the sarcoplasmic reticulum (B) the myofibril
   (C) the transverse tubules (D) the neuromuscular junction

5. Bitter taste is felt at the following part of the tongue.
   (A) Tip (B) Back (C) Mid dorsal (D) Sides

6. Normal serum Prothrombin Time (PT) is
   (A) 24-34 sec. (B) 15-18 sec. (C) 4-9 sec. (D) 10-14 sec.

7. Toxic Shock Syndrome is a severe disease that is caused by
   (A) infection induced inflammation of breast tissue commonly seen in lactating women.
   (B) strain of staphylococci that produce a unique epidermal toxin.
   (C) acute, subacute, recurrent or chronic infection of the reproductive organs and peritoneal cavity.
   (D) inflammation and infection of the cervix.

8. One of the causes of prerenal failure in AKI is
   (A) Benign prostatic hyperplasia (B) Renal calculi
   (C) Severe vomiting & diarrhoea (D) Acute pyelonephritis

9. The value of glycosylated haemoglobin gives the status of glucose level of
   (A) over 6 months
   (B) over 3 months
   (C) over 1 year
   (D) over 1 month

10. For measuring the jugular venous pressure the patient is placed in
   (A) Head end side of the bed should be raised upto 60-90 degree
   (B) Supine position
   (C) Sims lateral position
   (D) Semi fowler's with head end 30-45 degree

11. Edema of optic nerve is termed as
   (A) Retinopathy (B) Papilledema (C) Ophthalmitis (D) Glaucoma

12. After Arthroscopy of the Right Knee in which position the nurse should place the client's affected leg ?
   (A) Flexed position by placing a pillow under the knee
   (B) Elevated and knee extended
   (C) Flat on bed
   (D) Elevated and knee flexed

13. Stress Ulcer after severe burn is called
   (A) Curling's Ulcer
   (B) Cushing's Ulcer
   (C) Meleney's Ulcer
   (D) Rodent Ulcer

14. Emergency management of Diabetic ketoacidosis patient include
   (A) Monitoring of vital signs
   (B) Administration of insulin
   (C) Initiation of fluid replacement therapy
   (D) Determination of the cause of Diabetic ketoacidosis

15. Which nursing action should be taken before changing dressing of a patient with large partial thickness burn ?
   (A) Checking vital signs including blood pressure
   (B) Obtaining a written informed consent for this procedure
   (C) Administering the pain medication as prescribed
   (D) Arranging divertional therapy during the procedure

16. If a mother brings her 18 months old baby in the hospital who has not been immunized even with a single vaccine. At this time which vaccine can be given to the child except

(A) Dpt – 1st (B) Opv – 1st (C) Measles (D) BCG

17. Mini pill is usually advised for the

(A) Newly married couple
(B) Lactating mothers
(C) Post unprotected sexual activity
(D) Pregnant mother

18. Quarantine means healthy individuals after exposure to disease, are kept under observation for longest incubation period of that disease. Quarantine is a method of

(A) Primordial prevention
(B) Primary prevention
(C) Secondary prevention
(D) Tertiary prevention

19. Perinatal mortality rate includes

(A) Death of foetus from 20 weeks to 28 weeks
(B) Death of foetus from 28 weeks to first 24 hours of birth
(C) Abortion and stillbirths
(D) Stillbirths and death of newborn within first 7 days of life

20. Incidence rate is calculated from

(A) Case-Control study
(B) Prospective study
(C) Retrospective study
(D) RCT

21. Which is the best index for burden of disease ?

(A) Case fatality rate
(B) Disability adjusted life years
(C) Dependency ratio
(D) Mortality rate

22. Expected weight of a child at one year whose birth weight was 3.5 kg

(A) 7.5 kg (B) 10.5 kg (C) 11.5 kg (D) 12.5 kg

23. Zero incidence is

(A) Elimination of disease
(B) Eradication of disease
(C) Elimination of infection
(D) Eradication of infection

24. Occurrence of a disease in a haphazard and irregular pattern is known as
(A) Endemic (B) Epidemic (C) Sporadic (D) Pandemic

25. Mission Indradhanush is for
(A) Non-communicable disease (B) Family planning
(C) Safe water and sanitation (D) Universal immunization

26. Dangerous placenta previa is the name given to the
(A) Type I placenta previa (B) Type II anterior placenta previa
(C) Type II posterior placenta previa (D) Type III placenta previa

27. The highest AP diameter of fetal skull is
(A) Suboccipito frontal (B) Occipito frontal
(C) Mentovertical (D) Submentovertical

28. How does a nurse identify true labour as opposed to false labour ?
(A) Contraction stops when the clients walks around.
(B) Contraction progress only in lying down position.
(C) Cervical dilation is progressive.
(D) Contractions occur immediately after the membrane ruptures.

29. In following which is the common treatment of luteal phase defect ?
(A) Oestrogen therapy (B) Progesterone therapy
(C) Antibiotics (D) Dexamethasone

30. Folic acid supplementation reduces the risk of
(A) Neural tube defect (B) Toxaemia of pregnancy
(C) Down's syndrome (D) Placenta previa

31. What is the reason for the golden colour of amniotic fluid ?
(A) Rh incompatibility (B) Fetal Distress
(C) Post Maturity (D) Intrauterine Death

32. Basal Body Temperature (BBT) is increased after ovulation due to influence of which hormone ?

(A) Oetrogen (B) Progesterone (C) LH (D) FSH

33. Triple test includes the test of -

(A) MSAFP, UE_3 and hCG
(B) MSAFP, UE_3 and inhibin A
(C) Inhibin A, UE_3 and hCG
(D) MSAFP, inhibin A and hCG

34. On a 2nd day of postpartum day you elicited Homans' sign. A positive finding means.

(A) Puerperal sepsis
(B) Mastitis
(C) Thrombophlebitis
(D) Pelvic Cellulitis

35. Midwives should measure the brachial blood pressure for pregnant women at each visit in the same position because lowest blood pressure is found in

(A) Sitting position
(B) Left recumbent position
(C) Right recumbent position
(D) Supine position

36. Curriculum means

(A) All the experiences which students get in institution.
(B) Subjects that are transferred by faculty.
(C) Syllabus prescribed for the course.
(D) Class experiences, games, sports.

37. Overall plan of rotation of all students in a particular educational institution is called

(A) Clinical rotation plan
(B) Course outline
(C) Master rotation plan
(D) Internal rotation plan

38. According to Hildgard E. Peplaue the 3rd stage of interpersonal relation is

(A) Orientation (B) Identification (C) Intervention (D) Exploitation

39. Tests show how well a student performed in relation to other students is known as

(A) Norm referenced
(B) Criterion referenced
(C) Function referenced
(D) Teacher student referenced

40. Which of the following tool can be used for assessing student's ability to perform suctioning ?

(A) Likert scale
(B) Checklist
(C) Sematice differential scale
(D) Critical incident technique

41. If we reject Null Hypothesis, when actually it is true, it is known as

(A) Type I error (B) Power (C) Specificity (D) Type II error

42. A researcher needs to live and work with a tribal population in an isolated village to know their experiences and life style. This is the example of which type of research ?

(A) Phenomenology
(B) Ethnography
(C) Grounded theory
(D) Meta-analysis

43. Staging of Carcinoma of colon as type I, II, III or IV belongs to which of the following scale ?

(A) Nominal (B) Ordinal (C) Interval (D) Ratio

44. A researcher wants to analyze the differences between the means of more than two groups. The statistical test to be used by the researcher is

(A) ANOVA
(B) t-test
(C) Fisher's exact test
(D) Chi-square

45. In a normally distributed data set, what percentage of population fall within two standard deviation of the mean ?

(A) 34% (B) 95.4% (C) 68% (D) 99.6%

46. Which of the following is true ?

(A) The sampling error becomes progressively smaller, with larger sample size.
(B) The sampling error becomes progressively smaller, with smaller sample size.
(C) The sampling error becomes progressively larger, with larger sample size.
(D) The sampling error is not related to sample size.

47. To study the motility of bacteria the medium used is

(A) Solid medium
(B) Liquid medium
(C) Semi solid medium
(D) Complex medium

48. Babies born to hepatitis B infected mothers are given

(A) Immunoglobulin only
(B) Vaccine only
(C) Immunological and antiviral only
(D) Immunoglobulin and vaccine

49. Which of the following microorganism is eliminated in canned foods ?

(A) Lactobacillus
(B) Clostridium botulinum
(C) Mycobacterium tuberculosis
(D) Coxiella burnetii

50. A man walks into a clinic and is complaining of an ulcerated lesion in his penis. It is painless and appears to be healing on its own. Which of the following would probably be the cause ?

(A) Chancroid
(B) Syphilis
(C) Gonorrhea
(D) Chlamydia

51. A supervisor observes inconsistency in nurse's behaviour toward a patient; the nurse is unreasonably concerned, overly kind, or irrationally hostile. The most appropriate explanation is that the nurse is displaying.

(A) Counter transference
(B) Empathetic resonance
(C) Splitting behaviour
(D) Transference

52. The primary use of stimulants is for

(A) Attention deficit hyperactive disorder
(B) Depression
(C) Schizoaffective disorder
(D) All of the above

53. The following are parasomnia, except

(A) Nightmare disorder
(B) Sleep paralysis
(C) Narcolepsy
(D) Somnambulism

54. "Good me", "bad me" and "not me" are the three component of self-system, identified by

(A) Peplau (B) Sullivan (C) Jean Piaget (D) Eric Erikson

55. In psychiatry, which therapy is involving a scientific structuring of the environment in order to affect behavioural changes and improve the psychological health and functioning of the individual ?

(A) Behavioural therapy
(B) Cognitive therapy
(C) Aversion therapy
(D) Milieu therapy

56. Which one of the following is not a professional requirement when building therapeutic relationship ?

(A) Partnership focused
(B) Controlling
(C) Person centred
(D) Non-discriminatory

57. After taking an antidepressant for about a week, a patient reports constipation and blurred vision, with no improvement in mood. The psychiatric-mental health nurse informs the patient

(A) "It takes approximately two to four weeks for depression to lessen, and side effects usually diminish over time."
(B) "Stop the medication immediately and contact your primary care physician."
(C) "You should schedule an appointment with your ophthalmologist."
(D) "You should contact your doctor. Your doctor may need to change the medication".

58. Which of the following is a mature defense mechanism ?

(A) Projection
(B) Reaction formation
(C) Anticipation
(D) Denial

59. The nurse is caring for a severely depressed client who has just been admitted to the in-client psychiatric unit. Which of the following is a priority of care ?

(A) Nutrition (B) Elimination (C) Safety (D) Rest

60. A mild form of bipolar disorder in which a person has mood swings over a period of years that go from mild depression to mild elation is

(A) Cyclothymic disorder
(B) Dysthymic disorder
(C) Melancholic disorder
(D) Conversion disorder

61. The "Law of Effect" was coined by _____.

(A) Skinner (B) Pavlov (C) Kohler (D) Thorndike

62. After a successful M.Sc. Entrance Test MS Y felt relaxed and calm, she stopped sweating, felt hungry, which part of her nervous system was activated ?

(A) Sympathetic (B) Somatic (C) Parasympathetic (D) Central

63. Subtle behaviours and communication style that are used in the work environment and interaction with others are called

(A) Hard Skill
(B) Time Management
(C) Soft Skill
(D) Vocational Skill

64. Part of the brain that regulates emotion is

(A) Limbic system
(B) Pons
(C) Cerebellum
(D) Peripheral Nervous System

65. What type of quality assurance provides an opportunity for simultaneous corrective action ?

(A) Retrospective Quality Assurance
(B) Concurrent Quality Assurance
(C) External Quality Assurance
(D) Internal Quality Assurance

66. The ethical principle, which shows obligation to tell the truth is

(A) Autonomy (B) Veracity (C) Fidelity (D) Beneficence

67. The communication in which managers interact with the managers, physicians and groups of people in other departments in the organization who are not at the same level in the hierarchy as them is called

(A) Vertical communication
(B) Horizontal communication
(C) Diagonal communication
(D) Upward communication

68. "Esprit de Corps" refers to

(A) Sense of achievement
(B) Sense of humour
(C) Sense of belonging
(D) Sense of mortality

69. A Gantt chart is a simple graphical chart depicting

(A) tasks & projects
(B) List of tasks & timelines
(C) events & objectives
(D) activities and events

70. Burns occurs to a patient from hot water bottles, heating pad, inhalers and Sitz's bath is an act of

(A) Malpractice (B) Negligence
(C) Unintentional fault (D) Failure in doing duty

71. Which of the following medications can cause osteoporosis, ulcers, weight gain & thinning of the skin with long term use ?

(A) Aminoglycosides (B) Corticosteroids (C) Barbiturates (D) Diuretics

72. The nurse is aware of the toxicity of chemotherapeutic agents. Which organ shows acute toxicity if the patient is taking doxorubicin ?

(A) Heart (B) Lungs (C) Liver (D) Kidney

73. Phenotypic monohybrid ratio is -

(A) 9 : 3 : 3 : 1 (B) 1 : 2 : 1
(C) 3 : 1 (D) 2 : 1

74. The first vascular response to injury is

(A) slowing of the circulation (B) recruitment of vascular beds
(C) capillary engorgement (D) arteriolar vasoconstriction

75. Sickle cell anaemia is

(A) Autosomal hereditary disease (B) Allosomic hereditary disease
(C) Epistatic effect (D) Nutritional disorder

76. Hindu Marriage Act was passed in

(A) 1954 (B) 1955 (C) 1948 (D) 1975

77. Who marries in Monogamy ?

(A) One female and two males (B) One male and two females
(C) Two females and three males (D) One male and one female

78. Groups which provide experience lacking intimacy

(A) Secondary groups (B) Primary groups
(C) In-groups (D) Organized groups

79. The process of moldings and shaping the personality of human being in infant is called
(A) Individualization
(B) Socialization
(C) Shaping
(D) Humanization

80. The development of self is closely associated with -
(A) Internalization of norms
(B) Analysis of the culture
(C) Categorization of values
(D) Rejection of bad habits

81. Which of the following best describes parallel play between two toddlers ?
(A) Sharing crayons to colour separate picture
(B) Playing a board game with another child
(C) Sitting near each other while playing with separate dolls
(D) Sharing their dolls with two different nurses

82. When assessing a child with a cleft palate, the nurse is aware that the child is at risk for more frequent episodes of otitis media due to which of the following ?
(A) Lowered resistance from malnutrition
(B) Ineffective functioning of the Eustachian tube
(C) Plugging of the Eustachian tube with food particles
(D) Associated congenital defects of the middle ear

83. A mother would like to know what a good activity is for a child with Autism. The best response would be of which of the following ?
(A) Loud music
(B) Various playmates
(C) Self-stimulating activities
(D) Small group activity

84. Which kind of treatment is needed for a child with pink classification according to IMNCI ?
(A) Home remedy
(B) Outpatient service
(C) Urgent referral
(D) OPD treatment and urgent referral

85. True about fetal circulation
(A) Blood in SVC has more oxygen saturation.
(B) Pressure in left ventricle is more.
(C) Brain receives blood with low oxygen saturation.
(D) Heart receives blood with high oxygen saturation.

86. Which of the following is a minor criterion for diagnosis of rheumatic fever according to modified Jones criteria ?
(A) ASO titre
(B) Carditis
(C) Fever
(D) Subcutaneous nodules

87. NADA's criteria are used for
(A) Assessment of child for degree of dehydration.
(B) Assessment of child for degree of malnutrition.
(C) Assessment of child for presence of heart disease.
(D) Assessment of child for degree of mental retardation.

88. Which of the following is the best indicator of long-term nutritional status ?
(A) Mid arm circumference
(B) Height for age
(C) Weight for age
(D) Weight for height

89. Average gain of height in first year is
(A) 25 cm (B) 50 cm (C) 75 cm (D) 100 cm

90. Trisomy 13 is seen in
(A) Edward syndrome
(B) Patau syndrome
(C) Down syndrome
(D) Turner syndrome

91. While a patient with ascites is receiving albumin, the planned therapeutic effect will be greater if the nurse regulates the infusion to flow
(A) Slowly and restricts fluid intake
(B) Rapidly and withholds fluid intake
(C) Rapidly and encourages fluid intake
(D) Slowly and encourages liberal fluid intake

92. An intentional touching of patient's body without consent is termed as
(A) Assault (B) Battery (C) Negligence (D) Malpractice

93. In which the following conditions of blood transfusion is contraindicated ?
(A) Haemophilia
(B) Congestive cardiac failure
(C) Bleeding nose
(D) Bleeding haemorrhage

94. Drug that causes expulsion of gas from intestinal tract

(A) Astringent (B) Carminatives (C) Catharatics (D) Emetics

95. The resistance an individual possesses by virtue of his genetic and constitutional make up is

(A) Active immunity (B) Passive immunity

(C) Adaptive immunity (D) Innate immunity

96. Arterial blood gas levels of patient shows pH 7.25, $PACO_2$ 37 mmHg PAO_2 92 mmHg and $HCO_3$18. This laboratory value indicates

(A) Metabolic alkalosis (B) Metabolic acidosis

(C) Respiratory acidosis (D) Respiratory alkalosis

97. An infection resulting from a treatment or diagnostic procedure is

(A) Nosocomial (B) Iatrogenic (C) Endogenous (D) Contagious

98. A nurse has been gathering physical assessment data on a patient and is now listening to the patient's concerns. The nurse sets a goal of care that incorporates the patient's opinion to make treatment decision. This is an example of the nurse engaged in which phase of the nurse patient relationship ?

(A) Working phase (B) Pre-interaction phase

(C) Termination phase (D) Orientation phase

99. A nurse caring for patients post operatively uses careful hand hygiene and sterile techniques when handling patients. Which of Maslow's basic needs is being met by this nurse ?

(A) Physiologic (B) Safety and security

(C) Self-esteem (D) Love and belonging

100. A professional nurse committed to autonomy would be careful to

(A) provide the information and support a patient to make decisions.

(B) treat each patient fairly.

(C) keep any promises made to patient.

(D) avoid causing harm to patient.

SPACE FOR ROUGH WORK

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