

Central Water Commission  
Establishment I Section

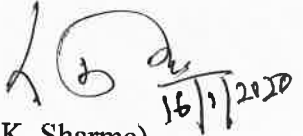
Sub: Uploading of question papers of 54<sup>th</sup> Departmental Examination of Engineering Officers of CWC.

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A set of question papers (PP-I, PP-II, PP-III) of 54<sup>th</sup> Departmental Examination of Engineering Officers of CWC held on 23<sup>rd</sup> and 24<sup>th</sup> November, 2019 is enclosed.

It is requested that the question papers may please be uploaded on CWC Website.

Encl: as above.

  
(R. K. Sharma)  
Consultant (E-I)  
BPL No. 3310  
16/1/2020

**The Deputy Director, SMD, CWC**

CWC ID No.8/1/2019-Estt.I/251 dated: 16.01.2020

**Government of India**  
**Central Water Commission**

**54<sup>th</sup> Departmental Examination for Engineering Officers of CWC**

Time : 3 Hours

Max. Marks : 100

**Professional Paper – I**

(This paper containing 12 pages is divided into three sections – A, B & C. These sections are further subdivided into two parts – Part 1 & Part 2. Section A carries 60 marks, while Section B & C carry 40 marks each.)

**Important Instructions**

- a) Civil engineers shall attempt Section A & B. Mechanical Engineers shall attempt Section A & C.
- b) The multiple choice questions are to be attempted / answered in the question paper only. Answers in separate sheet will not be evaluated.
- c) Please write your Roll Number on each section of the question paper.
- d) The question paper has to be returned back along with the answer sheet.

Roll No .....

**SECTION A (Common to both Civil & Mechanical Engineers)**

**PART 1 : Multiple Choice Objective Type Questions**

**Note : Attempt all 20 questions. Each question carries one mark.**

1. As per PMKSY approved in 2016 which of the following statement are correct:
  - I. Major and medium irrigation/multipurpose irrigation (MMI) projects are funded under PMKSY-AIBP
  - II. Repair, Renovation and Restoration (RRR) of Water Bodies are funded under PMKSY-Water Shed Development
  - III. Command Area Development & Water Management (CADWM) projects are funded under PMKSY-Har Khet Ko Pani (HKKP)
  - IV. Surface Minor Irrigation (SMI) projects are funded under PMKSY- Per Drop More Crop (PDMC)

i. All are correct,	ii. Only I and II are correct
iii. Only I and III are correct,	iv. Only III and IV are correct
  
2. The present funding arrangement of Major and Medium Irrigation (MMI) Projects under PMKSY -AIBP is as under:
  - I. For General Category States :- 25% (Central) : 75% (State)
  - II. For North-Eastern and Hilly States:- 90% (Central) : 10% (State)
  - III. For National Projects under PMKSY-AIBP:- 60% (Central) : 40% (State)
  - IV. For Drought Prone Area Programme (DPAP):- 50% (Central) : 50% (State)

A All are correct	B Only I, II and III are correct
C Only II, III and IV are correct,	D Only I, III and IV are correct
  
3. Major and Medium Irrigation Projects to be eligible for Central Assistance under AIBP should be
  - I. Having investment clearance
  - II. In advance stage of construction
  - III. Can be completed in next 4 Financial Year s
  - IV. Project should be receiving some other form of assistance

i. Only I is correct	ii. Only I and II are correct
iii. Only I, II and IV are correct	iv. All are correct
  
4. Pick the TRUE statement : Web enabled e-PAMS system in CWC is meant for  
:
  - a) Online appraisal of projects.

- b) Online monitoring of projects.  
c) Both a and b above  
d) None of the above
- 5 Number of occasions till date when Central Government had to invoke provisions of the Inter-State River Water Disputes (ISWD) Act 1956 to constitute Water Disputes Tribunals:
- (A) Three (B) Six  
(C) Nine (D) Twelve
- 6 Number of River Boards constituted so far under River Boards Act 1956:
- (A) One (B) Three  
(C) Five (D) None of these
- 7 Which Water Dispute Tribunal has been constituted by Central Government without specific request of co-basin State(s):
- (A) Godavari Water Dispute Tribunal  
(B) Mahadayi Water Dispute Tribunal  
(C) Cauvery Water Dispute Tribunal  
(D) Ravi-Beas Water Dispute Tribunal
- 8 Indus Waters Treaty is a water distribution treaty between:
- (A) India and Nepal  
(B) India and China  
(C) India and Pakistan  
(D) India, Pakistan and China
- 9 For publication of Water Year Book yearly, period of data considered as:
- a) April-March  
b) June-May  
c) May-April  
d) None of the above
- 10 In case discharge is not observed due to some reasons at site on a particular day. How the discharge measurement records are updated for that day:
- a) Stage-Discharge relation  
b) Slope-Area method  
c) Both (a) & (b)  
d) None of the above
- 11 Pigmy current meter is used at CWC site when velocity of water in the is very:

- a) Less
  - b) High
  - c) both
  - d) None of the above
- 12 What minerals are found in the run-off from agricultural land and treated and untreated sewage effluents, which are highly responsible for eutrophication of water bodies?
- a) Phosphorous and Carbon
  - b) Nitrogen and Phosphorous
  - c) Potassium and Arsenic
  - d) Iron and Manganese
- 13 The \_\_\_\_\_ is an important requirement of the aquatic life:
- a) Dissolved nitrogen
  - b) Dissolved chlorine
  - c) Dissolved oxygen
  - d) Dissolved methane
- 14 Blue baby syndrome is due to the presence of:
- a) Excess sulphate in drinking water
  - b) Excess chlorine in drinking water
  - c) Excess heavy metals in drinking water
  - d) Excess nitrates in drinking water
- 15 RS & GIS techniques are being utilized in which of application are(s) in Central Water Commission?
- i. Monitoring of Glacial Lakes and Water Bodies in Himalayan region.
  - ii. Monitoring of AIBP Projects
  - iii. Reservoir Sedimentation Assessment
  - iv. Morphological Studies of River
- a) ii, iii & iv only
  - b) ii & iii only
  - c) i & iv only
  - d) all the above
- 16 A digital elevation model (DEM) is a :-
- a) Remote Sensed image
  - b) 2D map of the surface
  - c) Digital Model or 3D representation of a terrain's surface
  - d) Tool for network analysis
- 17 When was the Environment (Protection) Act enacted by the Parliament?
- a) 1976
  - b) 1982
  - c) 1986

d) 1988

18 Which of the following is a green house gas?

- a) CO<sub>2</sub>
- b) CH<sub>4</sub>
- c) Water Vapour
- d) All the above

19 How many Missions are there under National Action Plan for Climate Change?

- a) 6
- b) 7
- c) 8
- d) 5

20 Which of these is NOT an exempted effect of climate change?

- a) Sea Levels Rising
- b) Flooding in coastal cities
- c) Expanding glaciers
- d) Extreme weather

### SECTION A ( Common to both Civil & Mechanical Engineers)

#### PART 2 : Short Answer Type Questions

**Note : Attempt any 5 questions. Each question carries 8 marks.**

1. What is web enabled e-PAMS system in appraisal of irrigation projects in CWC? Explain briefly.
2. (i) Write a short note on provisions of the Constitution of India related to water and Inter-State Rivers. (5 marks)  
  
(ii) Mention any three key features of proposed Inter-State River Water Disputes (Amendment) Bill, 2019. (3 marks)
3. What are the main appraising Directorates/Organizations of CWC within WP&P and D&R Wings involved in appraising a New DPR by CWC. Explain briefly which chapters CWC finalize for TAC Note.
4. Write a brief note on PMKSY highlighting its various components
5. Write a brief note on Fast Track Proforma Clearance (FTPC) of RCE of projects under AIBP.
6. Explain the discharge measurement by stage-discharge relation with neat sketch diagram. Briefly explain the equipments used for measurement of water depth in hydrological observations.
7. Briefly explain the MUSTO type benchmark with neat sketch diagram and its uses in HO observation. List out the six effects of sediments in river channels.
8. (a) What is climate change? (2 marks)  
(b) What factors are primarily responsible for Climate change? (2 marks)  
© What is the impact of climate change on water resources? (4 marks)

Roll No .....

**SECTION B ( For Civil Engineers only)**

**PART 1 : Multiple Choice Objective Type Questions**

**Note : Attempt all 10 Questions. Each question carries one mark.**

- 1 To determine the discharge at a section in a stream from its rating curve, the required data are
- (i) slope of water surface at the section
  - (ii) stage at the section
  - (iii) current meter readings at the section

The correct answer is:

- (a) (i) and (ii)
  - (b) (ii) and (iii)
  - (c) only (ii)
  - (d) only (iii)
2. The time required by rain water to reach the outlet of drainage basin, is generally called
- (a) Time of concentration
  - (b) Time of overland flow
  - (c) Concentration time of overland flow
  - (d) Duration of the rainfall

- 3 Match the following with respect to Water Distribution Techniques and chose the correct answer:

- |                        |   |
|------------------------|---|
| (i) Free Flooding      | (a) Area surrounded with low and flat levees                |
| (ii) Check Flooding    | (b) Less evaporation and less puddling of soil              |
| (iii) Basin Flooding   | (c) Most suitable for close growing crops and pastures etc. |
| (iv) Furrow Irrigation | (d) Adopted specially for orchard trees.                    |

- (A) (i) – (c), (ii) – (b), (iii) – (d), (iv) – (a)
- (B) (i) – (b), (ii) – (a), (iii) – (d), (iv) – (c)
- (C) (i) – (b), (ii) – (a), (iii) – (c), (iv) – (d)
- (D) (i) – (c), (ii) – (a), (iii) – (d), (iv) – (b)

- 4 Match the Crop with its Delta on field and chose the correct answer:

- | Crop        | Delta on field |
|-------------|----------------|
| (i) Wheat   | (a) 25 cm      |
| (ii) Rice   | (b) 50 cm      |
| (iii) Maize | (c) 40 cm      |
| (iv) Cotton | (d) 120 cm     |

- (A) (i) – (c), (ii) – (d), (iii) – (a), (iv) – (b)
- (B) (i) – (b), (ii) – (d), (iii) – (a), (iv) – (c)

- (C) (i) – (b), (ii) – (a), (iii) – (d), (iv) – (c)  
(D) (i) – (c), (ii) – (d), (iii) – (b), (iv) – (a)

5 Which of the following are Kharif crops:

- (A) Rice, Maize, Gram and Cotton  
(B) Peas, Jawar, Bajra and Potato  
(C) Bajra, Rice, Maize and Cotton  
(D) Wheat, Jawar, Mustard and Potato

- 6 For a given storm, other factors remaining same,  
(a) basins having low drainage density give smaller peaks in flood hydrograph  
(b) basins having higher drainage density give smaller peaks in flood hydrograph  
(c) basins having low drainage density give shorter time bases in flood hydrograph  
(d) the flood peak is independent of the drainage density

- 7 Interception loss  
(a) includes evaporation, throughflow and stemflow  
(b) consists of only evaporation loss  
(c) includes evaporation and transpiration losses  
(d) consists of only stemflow

8 The Delta for a crop when its duty is 1152 hectares/cumec on the field and base period is 120 days will be:

- (A) 60 cm (B) 90 cm  
(C) 120 cm (D) 160 cm

9 Which of the following is correct:

- (A) Success rate for meeting Irrigation and Hydro-power demand from Irrigation and Multipurpose projects should be 75 % and 100 % respectively.  
(B) An Irrigation project is categorized as Major if CCA is more than 100 km<sup>2</sup>.  
(C) Both A and B  
(D) None of these

- 10 The Muskingham method of flood routing is a  
(a) form of reservoir routing method  
(b) hydraulic routing method  
(c) complete numerical solution of St Venant equations  
(d) hydrologic channel routing method



## SECTION B ( For Civil Engineers only)

### PART 2 : Short Answer Type Questions

**Note : Attempt any 3 questions. Each question carries 10 marks.**

1 (a) Given the ordinates of a 4-h unit hydrograph as below, derive the ordinates of a 12-h unit hydrograph for the same catchment. (7 marks)

Time (h)	0	4	8	12	16	20	24	28	32	36	40	44
Ordinates of 4-h UH (cumecs)	0	20	80	130	150	130	90	52	27	15	5	0

(b) What is an S-curve? Explain its utility in the derivation of Unit hydrograph. (3 marks)

2 Write short notes on any two out of the following (5 marks each):

- (a) Instantaneous Unit Hydrograph
- (b) Channel and reservoir routing
- (c) Depth Area Duration curve
- (d) Flood frequency method for Design Flood

3 A storm with 10 cm of precipitation produced a direct runoff of 5.8 cm. The duration of the rainfall was 16 hours and its time distribution is given below. Estimate the  $\phi$ -index of the storm. (10 marks)

Time from start (h)	0	2	4	6	8	10	12	14	16
Cumulative rainfall (cm)	0	0.4	1.3	2.8	5.1	6.9	8.5	9.5	10.0

4 (i) Write a brief note on following:

- (a) Consumptive use of surface and ground water (3 marks)
- (b) Productive and Protective Irrigation (3 marks)

(ii) Using the values given below, compute the number of days after which water is required to be supplied to soil in order to ensure sufficient irrigation to the crop.

- Field capacity of the Soil = 26 % (4 marks)
- Permanent wilting point = 12 %
- Dry density of soil = 1.3 gm/c.c
- Effective depth of root zone = 60 cm
- Daily consumptive use of water for the given crop = 12 mm

5 Compute the B.C Ratio of Irrigation project having CCA of 18000 hectare and Annual Irrigation Intensity 120 % with following details: (10 marks)

Type of flow: Gravity

- |  |                      |
|--|----------------------|
| (i) Estimated life of the project:                                 | 100 years            |
| (ii) Estimated cost of the project:                                | Rs. 900 crore        |
| (iii) Cost of Headworks:   | 20 % of project cost |
| (iv) Cost of land development:                                     | Rs. 20000/hectare    |
| (v) Gross value of farm produce before project:                    | Rs. 110 crore        |
| (vi) Gross value of farm produce after project:                    | Rs. 380 crore        |
| (vii) Expenditure on seed, manure and hired labour before project: | Rs. 45 crore         |
| (viii) Expenditure on seed, manure and hired labour after project: | Rs. 80 crore         |
| (ix) Annual Operation & Maintenance charge:                        | Rs. 1175 per hectare |
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**SECTION C ( For Mechanical Engineers only)**

**PART 1 : Multiple Choice Objective Type Questions**

**Note : Attempt all 10 Questions. Each question carries one mark.**

1. Various activities of a project are shown on bar chart by
  - a) Horizontal lines
  - b) Vertical lines
  - c) Dots
  - d) Crosses
  
2. Provision of General purpose equipment and inspection vehicles are made under the following head of Cost estimate:
  - a) 'Q' Special T&P
  - b) 'C' Works
  - c) 'J' Works
  - d) 'A' Preliminary
  
3. The following operations are generally employed for tunnelling in hard rock, 1. Removing ground water, 2. Loading holes and firing the explosive 3. Setting up and drilling 4. Grouting and lining 5. Removing muck 6. Ventilation and removing explosion dust. The correct sequence is :
  - a) 3,2,6,5,1,4
  - b) 3,4,6,1,5,2
  - c) 4,1,2,3,6,5
  - d) 5,4,2,1,3,6.
  
4. Which of the following equipment is most suitable for excavating trenches and pits?
  - a) Hydraulic excavator with back hoe attachment
  - b) Dragline
  - c) Front end loader
  - d) Crawler Tractor
  
5. ForePoling method is generally adopted for tunnelling in:
  - a) Soft strata
  - b) Hard strata
  - c) Running strata
  - d) None of these
  
6. Raise climber is used for
  - a) Open excavation
  - b) Excavation of horizontal tunnels
  - c) Excavation of vertical/ inclined shafts
  - d) For drilling holes for tunnelling

7. What is critical path?
- Path having maximum float
  - Path having minimum float
  - Shortest path
  - None of above
8. The method of draining in the tunnels, is generally known as
- fore drainage
  - permanent drainage
  - dewatering
  - all
9. For a given size of bucket, the ideal output of a dragline will be least in
- Wet sticky clay
  - Good common earth
  - Sand and gravel
  - Moist loam
10. If A is the optimistic time, b is the pessimistic time and m is most likely time of an activity, the expected time of the activity, is
- $(A + 4m + b)/6$
  - $(A + 2m + b)/6$
  - $(A + m + b)/6$
  - $(A + 5m + b)/6$

### SECTION C ( For Mechanical Engineers only)

#### PART 2 : Short Answer Type Questions

**Note : Attempt any 3 questions. Each question carries 10 marks.**

- 1.
- What are the factors affecting selection of drilling equipment/technique?  
(5 marks)
  - What is rock bolting? What equipments are generally used for rock bolting?  
(5 marks)
2. Short note on: (2 marks each)
- Hourly use rate
  - TBM
  - Various Techniques used for construction scheduling
  - Various Compaction Equipments
  - PERT
3. a) Mention different types of Earth-Moving Equipment. (5 Marks)
- b) Also describe different concreting equipment used in water resources projects in India.  
(5 Marks)

4. a) What are several components of Hourly use rate Analysis and how it is used to determine the overall cost of the water resources projects (5 Marks)

b) What is range of depreciation value of equipment? How depreciation is related to the life of equipment? (5 marks)

5.a) Mention different Earth-Moving equipment with their brief specifications and application w.r.t. specific use in the water resources projects.

( 5 Marks)

b) Prepare a short note on Transfer Value of Equipment as mentioned in CWC Guide Book publication ( 5 Marks)

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PAPER - II

SECTION - B

(FOR CIVIL ENGINEERS ONLY)

(WITH RELATED BOOKS)

MAX MARKS : 50

**Note:**

- I. Please attempt **ANY TWO** questions out of three.
- II. All questions carry **equal marks**.

1. Answer the following:

i. Explain the following:

- a) Draft Tube and its purpose.
- b) Anchor blocks for penstock
- c) Social, economic and environmental impacts of hydropower plants

(15 marks)

ii. What are different floors of powerhouse? Briefly discuss.

(10 marks)

2. Answer the following

i. List the forces which are considered for concrete gravity dam design and discuss hydrodynamic force, silt pressure and uplift pressure in the foundation.

(8 marks)

ii. Write down the basic design requirements of an embankment dam. Describe how these requirements are achieved while designing the embankment section.

(8 marks)

iii. Write short notes on the following:

- d) Design of filters in embankment dams.
- e) Seepage control measures for foundation of concrete gravity dam

(9 marks)

3. Enumerate various types of Energy Dissipation Arrangements (EDA) provided at the toe of an over flow section of a concrete gravity dam. Also, explain how the parameters of reservoir, spillway and river conditions in the downstream of the dam govern the selection of a particular type of EDA? Discuss what type of EDA would be best suitable for a river having rocky & steep river bed downstream of the dam.

(25 marks)

ROLL NO.....

**SECTION – C**  
**(FOR MECHANICAL ENGINEERS ONLY)**  
**(WITH RELATED BOOKS)**

**MAX MARKS : 50**

**Note:**

*I. Please attempt ANY TWO questions out of three.*

*II. All questions carry equal marks.*

**1. Answer the following**

a) What are main components of the hydraulic hoisting arrangement? Mention advantages and limitation of this type of hoist.

(10 marks)

b) Discuss various methods/measures to counter and reduce the impact of hydrodynamic forces and vibrations concerning medium and high head gated installations.

(15 marks)

**2. Answer the following**

a) Write down main advantages of a radial gate over a vertical lift gate

(5 marks)

b) Calculate the capacity of the rope drum hoist required for raising/lowering vertical lift fixed wheel gate of a Water Resources Project having following data:

i) Width of Sluice opening = 3.5 m (20 marks)

ii) Height of Sluice opening = 3.5 m

iii) Sill Level of gate = EL 220.50m

iv) Full Reservoir Level (FRL) = EL 240.00m

v) Gate Weight = 8.0 tons

vi) Raising and lowering of the gate under flowing water condition.

vii) Gate is subjected to the following hydrodynamic forces during raising/lowering:

a) Maximum Uplift of 2.0 ton while lowering the gate.

b) Maximum Downpull of 10.0 ton while raising the gate.

viii) Music note (J-type) Teflon clad Rubber Seal provided in the downstream side.

ix) Wheel provided with Anti-friction roller bearing.

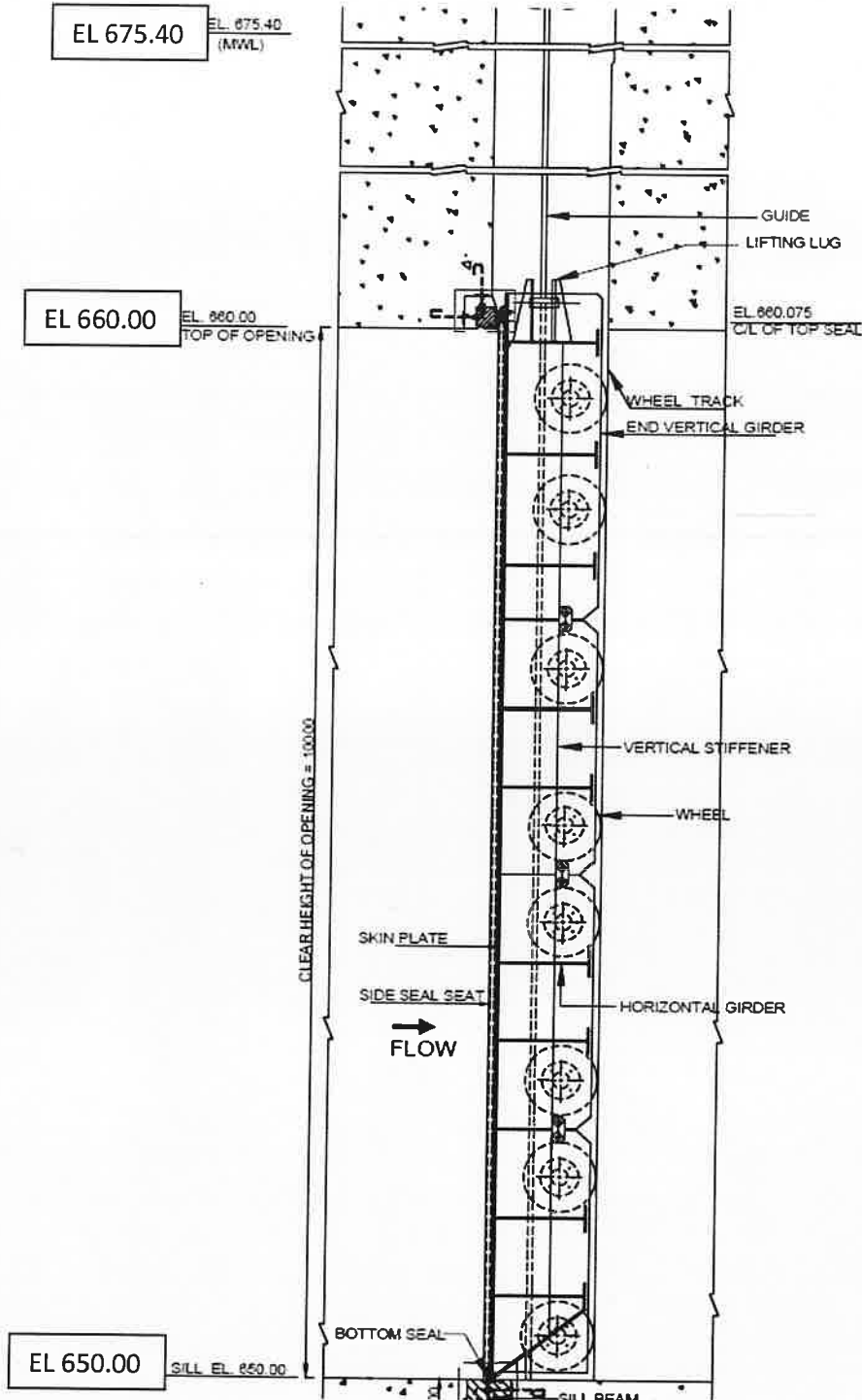
**Assume any other required data suitably.**



3. Calculate the hydrostatic water load corresponding to Maximum Water Level at EL 675.40m acting on a diversion tunnel gate shown in the below sketch. The clear width & height of the opening is 10.0m each. Also draw the pressure diagram and workout Radius & tread width of wheels in line with provisions of relevant Indian Standard suitable for 900mm wide & 450mm deep gate slot/groove.

(25 marks)

*Assume any other data required suitably.*



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**Government of India**  
**Central Water Commission**

**54<sup>th</sup> Departmental Examination for Engineering Officers of CWC**

**Time: 3 hours**  
**Max. Marks:100**

**PROFESSIONAL PAPER – III (with Book)**

(This paper containing 8 pages is divided into two Sections A & B. Section A carries 30 marks, while B carries 70 marks)

**Important instructions:**

- a) The multiple choice/ objective type questions are to be attempted/ answered in the question paper only. Answer in separate answer sheet will not be evaluated.
- b) Unless specifically mentioned, each multiple choice/ objective type question has one and only one correct answer out of four choices. If more than one choice is marked, the answer would not be evaluated.
- c) There is no negative marking i.e. no deductions shall be made for incorrect answers.
- d) Please write your Roll No. on each section of the question paper.
- e) The question paper has to be returned back along with the answer sheets.

Roll No.....

**SECTION – A**

**Part-I Multiple choice/ objective type questions**

**Note: Attempt all questions. Each question carries 1 marks**

**Indicate the correct choice**

1. As per GFR 2017, goods may be purchased by Local Purchase Committee upto the value of
  - a) Rs. 1.0 Lakh
  - b) Rs. 1.5 Lakh
  - c) Rs. 2.5 Lakh
  - d) Rs. 5.0 Lakh
  
2. It is mandatory to invite bids on GeM for purchase beyond the value of
  - a) Rs. 5 Lakh
  - b) Rs. 10 Lakh
  - c) Rs. 20 Lakh
  - d) Rs. 30 Lakh
  
3. Percentage rate tender is invited in
  - a) CPWD Form 6
  - b) CPWD Form 7
  - c) CPWD Form 8
  - d) CPWD Form 9
  
4. Physical verification of T&P is required to be carried out
  - a) Monthly
  - b) Quarterly
  - c) Biannual
  - d) Annually
  
5. The bid security is normally to remain valid for a period of \_\_\_\_\_ beyond the final bid validity period
  - a) 30 days
  - b) 45 days
  - c) 60 days
  - d) 120 days
  
6. Separate account for consumables such as office stationery, chemicals, maintenance spare parts etc. is kept in the Form \_\_\_\_\_
  - a) GFR-18
  - b) GFR-22

- c) GFR-23
  - d) GFR-24
7. For a work with estimated cost of Rs. 25 lakhs, desirable time limits between the date of publication and the date of receipt of the tender should be \_\_\_\_\_
- a) 7 days
  - b) 10 days
  - c) 14 days
  - d) 20 days
8. Which method of Selection/ Evaluation of consultancy proposals involve weight age for technical score in the final evaluation?
- a) Quality and Cost Based Selection
  - b) Least Cost System
  - c) Single Source Selection/Consultancy
  - d) All of the above
9. Central govt. employees serving in NER and Ladakh shall be paid Special Duty Allowance (SDA) w.e.f., 1.7.17 @ ....of basic pay
- a) 20%
  - b) 15%
  - c) 7.5%
  - d) 10%
10. ....Allowance is not admissible during Joining Time.
- a) Special Allowance for child care
  - b) HRA
  - c) Conveyance Allowance
  - d) Dearness Allowance
11. Which of the following categories of Govt. Servants are eligible for reimbursement of transportation of personal cars on transfer consequent to implementation of the 7<sup>th</sup> Central Pay Commission?
- a) Govt. servants from Level 6 and above
  - b) Govt. Servants from Level 8 and above
  - c) Govt. Servants from Level 10 and above
  - d) Govt. servants from level 13 and above
12. Who of the following are not included in the term "family" under GPRA Rule 2017:
- a) Parents residing with and dependent on the Government servant
  - b) Step children
  - c) Brothers or sisters
  - d) Father-in-law

13. Which Conduct Rule prevents the criticism of the Government?
- Rule 7
  - Rule 8
  - Rule 9
  - Rule 10
14. What is the maximum period of leave Not Due on Medical Certificate that can be granted to an employee during the entire service?
- 180 days
  - 240 days
  - 300 days
  - 360 days
15. What is the time limit within which a concerned Administrative Ministry/Department must consider a sports person for out-of-turn promotion?
- One month from the date of occurrence of the event
  - Two months from the date of occurrence of the event
  - Three months from the date of occurrence of the event
  - There is no time limit

16. Match the following from 'X' to 'Y':

X	Y
	<u>One time lump sum Incentive</u>
(i) Phd.	1: 10,000
(ii) Degree/Diploma of duration More than 3 years	2: 25,000
(iii) PG Degree/Diploma of Duration more than 1 year	3: 15,000
(iv) Degree/Diploma of duration Three years or less	4: 30,000

- .....
- (i)-3, (ii)-4, (iii)-1, (iv)-2
  - (i)-4, (ii)-3, (iii)-2, (iv)-1
  - (i)-2, (ii)-3, (iii)-4, (iv)-1
  - (i)-1 (ii)-2, (iii)-3, (iv)-4

17. What is the maximum period of stay allowed in respect of Central Government Servants in State Bhawans/ Departmental Guest houses run by State /Central/AB etc? For reimbursement of rent in connection with their transfer to a new station?
- Nine months

- b) Six months
  - c) Three months
  - d) One year
18. A government servant is drawing pay of Rs. 52,000 in Level 6 from 1.7.2018. The official is likely to be retired from service on 30.4.2019 after rendering 25 years of qualifying service. In the meantime, the Disciplinary Authority ordered on 28.3.2019 that his pay of Rs. 52,000 be reduced to Rs. 50,500 for a period of one month from 1.4.2019 to 30.4.2019 without cumulative effect and also permitted him to retire from service on 30.4.2019 A/N. Fix his pension on 1.5.2019:
- a) Rs. 26,000
  - b) Rs. 25,250
  - c) Rs. 25,925
  - d) Rs. 19,129
19. LTC journeys can be combined with :
- a) Tour
  - b) Transfer
  - c) Child Care Leave
  - d) All the above
20. While availing LTC all Govt. servants can travel
- a) According to their entitlement based on their Pay Level
  - b) Below their entitled class of travel
  - c) By air between places not connected by rail and when no alternative means of travel is available
  - d) All of the above
21. Encashment of EL while availing LTC is limited to \_\_\_\_\_ of EL on one occasion without linkage to number of days and nature of Leave availed and total \_\_\_\_\_ days of EL in the entire carrier.
- a) 10 days, 30 days
  - b) 10 days, 45 days
  - c) 15 days, 45 days
  - d) 10 days, 60 days
22. Authorized travel agent/ agency for air ticket booking for LTC are:
- (a) M/s Ashoka Travels & Tours
  - (b) M/s Balmer Lawrie & company
  - (c) IRCTC
  - (d) All the above

23. What are full forms of NCDDO and CDDO?
24. The New Pension Scheme (NPS) has been made applicable to all Govt. servants joining Govt. service on or after .....
25. Composite Transfer Grant is equal to \_\_\_\_\_ % of last month basic pay when change of station is involved and more than 20 Km.  
a) 60  
b) 70  
c) 80  
d) 90
26. When the tour is considered to have been completed?  
a) After starting the Journey from tour station  
b) On returning to the Headquarters  
c) On returning to the Airport / Railway Station at Headquarters  
d) None of the above
27. The list of Major and Minor Head of Central Govt. contains.  
a) The heads to which the expenditure, revenue and loan & advances are to be classified.  
b) The heads to which expenditure is to be classified.  
c) The heads to which the revenue receipt is to be classified.  
d) None of the above.
28. What are functions of Drawing and Disbursing Officer?  
a) Preparation of budget estimate / revised estimate  
b) Drawl of money for running of office  
c) Maintenance of records such as cash book, bill register, etc.  
d) All of the above
29. What are the functions of Audit?  
a) Whether Govt. money received are duly accounted for and credited to Govt. accounts  
b) Whether all the items of expenditure incurred are authorized and are in accordance with the prescribed rules and Regulations  
c) Whether the accounts are complete in all respects  
d) All of the above
30. What is the responsibility of Controlling Officer in respect of Budget allocation?  
a) The expenditure does not exceed the budget allocation  
b) The expenditure is incurred for the purpose for which funds have been provided  
c) The expenditure is incurred in public interest  
d) All of the above

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Roll No.....

**Section-B**  
**Part-2 Short Answers**

**Note: Attempt all questions. Each Question carries 7 marks**

1. Write Short Notes on
  - a) Single Tender Enquiry (2 marks)
  - b) Forfeiture of Earnest Money (2 marks)
  - c) Central Public Procurement Portal (CPPP) (3 marks)
  
2. Write Short Notes on
  - a) Purchase of Goods without Quotation (2 marks)
  - b) Unserviceable Stores (2 marks)
  - c) Quality and Cost Based Selection Method of proposal evaluation (3 marks)
  
3.
  - a) List the contents of a bidding document (3 marks)
  - b) Explain two Bid System (4 marks)
  
4. The office at Place X is on hire basis. The owner of the building has refused to further lease out the same. What steps are required to be taken to hire a new premise for the office purpose? Elaborate. (7 marks)
  
5. You have been assigned the work of hiring on contract basis the services of semi-skilled/unskilled workers during the monsoon season. Describe the procedure to be adopted for the same. (7 marks)
  
6. Prepare a self contained note on promotion of SWAs to Work Sarkar Gr. II for approval of the Competent Authority. (7 marks)
  
7. An employee "Y" has applied for advance from his GPF for sending his son abroad for higher studies. Process the application citing relevant rules under which he can be granted the advance from his GPF. (7 marks)



8. Write a note on
- a) Supplementary Grant (3 marks)
  - b) Surrender of saving (2 marks)
  - c) Re-appropriation of fund (2 marks)
9. Write a note on
- a) Authority to open a new Head of Account (3 marks)
  - b) Banking Arrangement in Government Accounts/ Government office (2 marks)
  - c) Personal Deposit Account (2 marks)
10. Write a note on:
- a) Difference between Original Work and Repair Work (3 marks)
  - b) Procedure for Execution of Work (4 marks)

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